Evergreen Resources Management
2 Righter Parkway, Suite 120
Wilmington, DE 19803

July 30, 2021

VIA OnBase Electronic Forms Upload

Lisa Strobridge, P.G
Pennsylvania Department of Environmental Protection
2 East Main Street
Norristown, Pennsylvania 19401

RE: Former Philadelphia Refinery Remediation Program
Groundwater Remediation Status Report, First Half 2021

Dear Ms. Strobridge:

This semi-annual report summarizes Operation & Maintenance (O&M) work completed at the Philadelphia Energy Solutions Refining & Marketing LLC (PESRM) Philadelphia facility (facility) and the Sunoco Partners Marketing and Terminals L.P. (SPMT) Belmont Terminal between January 1, 2021 and June 30, 2021. Detailed information regarding O&M activity is included in the attached tables for the PESRM facility and Belmont Terminal as prepared by Stantec Consulting Services Inc. (Stantec). This letter summarizes the information detailed in the tables plus additional activities under the "Work Plan for Site Wide Approach under the One Cleanup Program" (Site Wide Approach) such as investigations of the various Areas of Interest (AOIs).

In compliance with the 2003 Consent Order and Agreement (CO&A) entered into between Sunoco Inc. (R&M) (Sunoco) and the Pennsylvania Department of Environmental Protection (PADEP) for the PESRM facility located at 3144 Passyunk Avenue in Philadelphia, Pennsylvania, Sunoco has performed site characterization activities for all AOIs. The facility has since entered into the Pennsylvania One Cleanup Program. On November 30, 2011, Sunoco submitted a Site Wide Approach to the PADEP and the United States Environmental Protection Agency (USEPA). The Site Wide Approach clarified the technical method beyond the CO&A and provided an anticipated schedule for future Act 2 submissions with respect to the Philadelphia Refinery remediation program. Effective December 30, 2013, Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC (Evergreen) assumed Sunoco legacy remediation liabilities with respect to the PESRM facility. All remediation of Sunoco's/Atlantic's historic environmental liabilities at the PESRM facility and Belmont Terminal will be managed moving forward by Evergreen. As described in the 2012 Buyer-Seller Agreement, environmental liabilities following the September 8, 2012 purchase and transfer of the Philadelphia Refinery to PESRM are managed by PESRM.

On June 26, 2019, PESRM announced the closure of the former refining facility. As of June 26, 2020, Hilco Redevelopment Partners (HRP) completed its purchase of PESRM. HRP plans to redevelop the site as an industrial logistics center and has no plans to operate the site as a refinery. A 2020 amendment to the Buyer-Seller Agreement lays out an updated schedule for Act 2 submissions designed to accommodate the planned site redevelopment. Reports that are scheduled to be submitted in 2021 are the Remedial Investigation Report (RIR) Addendum for Area of Interest (AOI) 4, RIR Addendum for AOI 9, and Sitewide Fate and Transport Remedial

Investigation Report. The Public Comment RIR was submitted to the PADEP on March 31, 2021 and the report was disapproved though a Letter of Technical Deficiency on June 29, 2021.

Evergreen will continue to submit the required documentation and implement remedial obligations for Evergreen's remediation program. Supplemental characterization data obtained following an approved AOI RIR or Site Characterization Report (SCR) will be incorporated in future Act 2 deliverables. Evergreen will submit a Groundwater Remediation Status Report with the O&M summary, figures, tables, and Act 2 submittal updates on an annual basis coinciding with the annual groundwater gauging and monitoring. On the alternating six-month interval, Evergreen will submit an abbreviated Groundwater Remediation Status Report detailing the O&M summary with limited tables and without figures.

AOI 1 – Former Point Breeze Refinery No. 1 Tank Farm and No. 2 Tank Farm; and Belmont Terminal

Consent Order / Characterization Status

Sunoco submitted to the PADEP and the USEPA a SCR for AOI 1 dated June 30, 2005. Based on comments received by the PADEP with regard to the AOI 1 SCR, Sunoco prepared and submitted to the PADEP a revised SCR for AOI 1 dated July 17, 2006. The recommendations in the AOI 1 report were to supplement the existing remediation system along the northwestern portion of the Belmont Terminal and southeastern portion of the No. 2 Tank Farm. Sunoco has implemented these actions as detailed in previous reports. In January 2008, Sunoco provided the PADEP a Remedial Action Plan (RAP) for AOI 1. As a result of the 26th Street North Remediation System study and the S-50 Area (26th Street South) investigation, an addendum to the RAP was considered necessary. In December 2008, a RAP Addendum for AOI 1 was submitted to address the 26th Street North Remediation System data analysis and the 26th Street South investigation and subsequent remedial actions. Evergreen submitted a revised AOI 1 RIR on August 5, 2016 which was approved by the PADEP on November 1, 2016. Note that Belmont Terminal is currently considered a separate site from a regulatory perspective and was formally entered into the Act 2 program separately from AOI 1 and rest of the PESRM facility by the submission of a Notice of Intent to Remediate in 2014.

Evergreen conducted characterization activities at the Belmont Terminal in 2020 including a sitewide geophysics survey (electrical resistivity imaging) to aid in developing a high resolution conceptual site model. In the first half of 2021, soil borings and monitoring wells were installed to confirm output from the geophysical survey and to aid in providing additional characterization information to be utilized as part of future modeling efforts for the facility.

Belmont Terminal Remediation System – Operation During the First Half of 2021

The Belmont Terminal Remediation System consists of two components including the Frontage Road System and the Loading Rack System.

On August 30, 2012, the Frontage Road System was turned off and will remain offline unless there are significant increases in light non-aqueous phase liquid (LNAPL) in the recovery wells. The recovery wells were gauged on April 20, 2021, and no LNAPL was detected.

The Loading Rack System consists of five dual-phase pumping systems (RW-4, RW-22, RW-23, RW-24, and RW-25). Each recovery well contains separate pumps controlled by density floats and conductivity probes to pump groundwater and LNAPL. Recovered groundwater is discharged to an onsite process sewer. LNAPL thicknesses are monitored, and pumps are turned on/off as needed based on recoverable LNAPL accumulations in each recovery well. The recovered LNAPL is stored in a 5,000-gallon holding tank, the contents of which are pumped out and recycled on an as needed basis. During the reporting period, the pump in RW-24 was active.

System performance and operational status for the Loading Rack System can be found in **Appendix 1**. A total of 32,299 gallons of groundwater was recovered by this system during the first half of 2021. No measurable volume of LNAPL was recovered during this period.

Shunk Street Sewer Ventilation System and Biofilter – Operation During the First Half of 2021

The Shunk Street system draws air from the Shunk Street sewer through a nearby manhole and through three parallel biomass treatment beds. The remediation system removes VOCs from the effluent air stream by sorption and degradation via passage through treatment beds containing biofilter media. Treated air is discharged to the atmosphere and monitored through the use of field photoionization detectors (PIDs).

The system remained operational during the reporting period. Details of the Shunk Street Sewer Ventilation System and Biofilter operational status during the first half of 2021 can be found in **Appendix 1**.

26th Street North Remediation System - *Operation During the First Half of 2021*

The 26th Street North Remediation System was modified in 2015 to increase the overall effectiveness of the system and was restarted on October 12, 2015. The four-inch diameter recovery wells (S-180, S-181, S-182, S-183, S-184, S-185, S-186, S-187, S-188, S-189, S-190, S-191, and S-192) were replaced with six-inch diameter recovery wells. Additionally, RW-400 and RW-402 are connected to the system for a total of fifteen recovery wells.

Within each well, a QED Environmental Systems Model AP-4+T AutoPump was installed to recover groundwater and LNAPL. Each recovery well contains a two-inch diameter lateral discharge line that connects to a four-inch high density polyethylene (HDPE) trunk line, which transfers the total fluids to an onsite process sewer. The pumps utilize compressed air, which is supplied by a Kaeser rotary screw air compressor. A one-inch diameter air line runs to each recovery well.

In October 2020, a performance evaluation was conducted at the 26th Street North Remediation System to evaluate the total fluids content and pumping flow rate. It was determined that the system pumped 7.3 gallons per minute (gpm) total fluids with all recovery well pumps operating (approximately 0.5 gpm per pump). Additionally, less than 0.02% of the fluids were LNAPL. The results of this test are used to estimate fluids recovery volumes from the 26th Street North Remediation System starting in October 2020.

The 26th Street North Remediation System was operational during the reporting period. Details for the 26th Street Sewer North Remediation System performance data and operational status can be found in **Appendix 1**. A total of 522,000 gallons of total fluids was recovered by this system during the first half of 2021.

26th Street and Packer Avenue Sewers Biofilter Remediation System – Operation During the First Half of 2021

The 26th Street and Packer Avenue Sewers Biofilter Remediation System was designed to ventilate/extract petroleum hydrocarbon vapors from the Packer Avenue/Pollock Street and 26th Street Intercepting Sewers, and remove volatile organic compounds (VOCs) from the effluent air stream by sorption and biological degradation via treatment beds containing biofilter media. Treated air is discharged to the atmosphere and monitored through the use of field PIDs.

In 2016, the 26th Street and Packer Avenue Sewers Biofilter System was upgraded including replacing the compost beds, repairing the duct work, and replacing or repairing the fans. The system was restarted on June 6, 2016 for final stages of startup and system startup was completed on November 10, 2016. The system was operational

during the first half of 2021. Details for the 26th Street and Packer Avenue Sewer Biofilter System performance data and operational status can be found in **Appendix 1**.

AOI 2 – Former Point Breeze Refinery

Consent Order / Characterization Status

The AOI 2 SCR/RIR was submitted to the PADEP and the USEPA on September 29, 2010. A revised RIR was completed in July 2017. PADEP approved the report on October 18, 2017. Subsequent investigation activities were conducted in the first half of 2021 in the area between the Point Breeze main office building and the river due to sheening observed in this area. Investigation activities are ongoing and sorbent booms are being maintained in the area of observed sheen.

Pollock Street West End Remediation System – Operation During the First Half of 2021

During October 2011, oil was observed within the Pollock Street sewer outfall. As a result, Sunoco completed the expansion of the existing vertical recovery well remediation system in the vicinity of the Pollock Street sewer outfall in February 2012. The system, referred to as the Pollock Street West End System, consisted of a total of ten 4-inch diameter recovery wells on the east side of River Road and twenty 6-inch diameter recovery wells on the west side of River Road. Groundwater and LNAPL were removed from select recovery wells using pneumatic submersible pumps. All liquids were processed through an oil/water separator (OWS) and water was discharged to an onsite process sewer (S-10 Sump). LNAPL was recovered in a 550-gallon tank and then managed by the PESRM facility. A report describing the details of the investigation and remediation performed in response to the oil observed in the Pollock Street sewer outfall was submitted to the PADEP and the USEPA on June 29, 2012.

The Pollock Street West End Remediation System was turned off December 19, 2016 to evaluate LNAPL recharge due to reduced LNAPL in wells and recovered by the system. The system remained off since then with the following exceptions. In October and November 2017, the system was operated to focus LNAPL removal. In November 2017, the system was restarted for a single well to focus LNAPL removal and was turned off shortly after. In April 2018, the system was turned on for two days for focused LNAPL removal. Due to completion of recovery in this area, the pumps were removed from recovery wells in 2020 and the system equipment was removed from the area to accommodate development.

Pollock Street Horizontal Well Remediation System – Operation During the First Half of 2021

The Pollock Street Horizontal Well Remediation System consists of HW-1, HW-2, and HW-3. HW-1 was installed in July 2004 along the north side of the Pollock Street sewer from approximately RW-103 to approximately 100 feet west of RW-101. HW-2 and HW-3 were installed from approximately RW-103 to the intersection of Pollock Street and 16th Street in the second quarter of 2006. Groundwater and LNAPL from HW-1 and HW-2 discharge directly into a Benzene National Emission Standard for Hazardous Air Pollutants (NESHAP) controlled sewer, whereas groundwater and LNAPL from HW-3 discharge directly into an onsite process sewer.

The Pollock Street Horizontal Well Remediation System was operational during the first half of 2021. System performance data and operational status can be found in **Appendix 1**. A total of 3,635,572 gallons of total fluids was recovered by the Pollock Street Horizontal Well Remediation System during the reporting period.

Pollock Street Sewer Outfall – Operation During the First Half of 2021

The Pollock Street Sewer outfall is checked for product accumulations or sheening. LNAPL is handled by Evergreen contractors with spill control equipment to minimize or prevent releases to the Schuylkill River. Evergreen has continued to maintain a skimmer system located in the tide gate area. The skimmer previously discharged to an onsite process sewer (S-13 Sump). A holding tank was installed in 2021 to manage future recovered product, if needed, due to anticipated loss of the onsite wastewater treatment plant. The skimmer will be activated if recoverable quantities of LNAPL are observed at the tide gate area.

The skimmer was active from March 1 to May 27, 2021 due to intermittent presence of oil in the outfall and sheening on the river outside of the Pollock Street Sewer Outfall tide gate. Daily observations of the Pollock Street Sewer Outfall and immediate area were made during this period. On May 27, the skimmer was turned off due to absence of LNAPL and sheen. The skimmer remained off for the remainder of the reporting period. Hard booms and sorbent booms are continually maintained outside of the tide gates at the Pollock Street Sewer Outfall as a precautionary measure.

AOI 3 – Former Point Breeze Refinery, Impoundment Area

There are no Evergreen groundwater or LNAPL remediation systems active in this area. The AOI 3 SCR/RIR was submitted to the PADEP and the USEPA on September 27, 2010. The SCR/RIR stated that given the limited occurrence and mobility of LNAPL observed in RW-2, the former remediation system in this area will remain offline. A revised RIR for AOI 3 was submitted March 20, 2017 and approved on June 14, 2017. The disposition of remediation systems in AOI 3 will be revisited in the future sitewide Cleanup Plan.

LNAPL was identified in S-414 and significant increases in LNAPL thicknesses were observed in two wells (S-283 and S-382) during the annual sitewide gauging in June 2018. PESRM was notified of the observations and an underground product line was determined to have released reformate from the UDEX feed line that runs from the 860 Unit in the former Point Breeze Refinery to the former Girard Point Refinery. PESRM is conducting LNAPL remediation and vapor phase destruction in this area.

AOI 4 – Former Point Breeze Refinery, No. 4 Tank Farm Area

Consent Order / Characterization Status

Sunoco submitted a SCR to the PADEP and the USEPA for AOI 4 on August 24, 2006. A repackaged SCR/RIR was submitted to the agencies on October 16, 2013. A "Disapproval of Remedial Investigation Report" was received from the PADEP on January 16, 2014. A revised RIR was submitted on March 24, 2017. The revised RIR was disapproved by the PADEP in a letter dated June 21, 2017 due to lack of offsite wells. In 2018, five additional monitoring wells (S-374, S-375, S-376, S-377, and S-378) were installed offsite adjacent to the Penrose Avenue Remediation System. A geophysics survey was conducted in February 2020 to further investigate the subsurface conditions near the Penrose Remediation System and offsite. Additional monitoring wells and soil borings were installed from July to August 2020 to confirm output from the geophysical survey. Based on initial data collected from the new wells, more complex sampling has been performed including petroleum forensics and compound specific isotope analysis (CSIA). A RIR Addendum will be submitted in 2021 to summarize available offsite information.

Penrose Avenue Remediation System – Operation During the First Half of 2021

Following characterization of AOI 4, Sunoco installed a remediation system on the southern border of AOI 4. This system was permitted for discharge to the Philadelphia Water Department (PWD) and by Philadelphia Air Management Services (AMS) and installation of the Penrose Avenue Remediation System was completed in December 2012. On March 10, 2020, the groundwater remediation system was taken out of service, equipment was subsequently removed, and there are no plans to resume operations.

The installation of an in-situ Submerged Oxygen Curtain (iSOC) was initiated during the second half of 2018 with the purpose of creating an oxygen barrier to accelerate the natural degradation of petroleum hydrocarbons. The iSOC system was turned off April 7, 2020 and remained off during this reporting period. After completion of the site characterization activities, site conditions and remedial alternatives will be evaluated for this area.

S-30 Remediation System – Operation During the First Half of 2021

The S-30 Remediation System consists of a LNAPL pump, probe assembly, and control panel. The recovered LNAPL is stored in a 2,500-gallon holding tank, the contents of which are managed by the PESRM facility on an as needed basis. The system was operational during the first half of 2021. System performance data and operational status can be found in **Appendix 1.** A total of 36.4 gallons of LNAPL was recovered by the S-30 Remediation System during the reporting period.

AOI 5 – Former Girard Point Refinery, South Tank Field

Consent Order / Characterization Status

There are no operational groundwater or LNAPL remediation systems in AOI 5. A SCR/RIR/Cleanup Plan was submitted to the PADEP and the USEPA on December 13, 2011. Sunoco received a RIR/Cleanup Plan disapproval letter from the PADEP on March 15, 2012. A revised RIR was submitted on January 16, 2016 and was approved by the PADEP on May 2, 2017.

AOI 6 – Former Girard Point Refinery, Chemicals Processing Area

Consent Order / Characterization Status

A SCR for AOI 6 was submitted to the PADEP and the USEPA on September 29, 2006. A repackaged SCR/RIR was submitted to the agencies on September 3, 2013. PADEP issued a disapproval letter on November 27, 2013. A revised RIR was submitted on November 21, 2017 and was approved by the PADEP on February 26, 2018.

27 Pump House Area

The remediation system that existed in the area of 27 Pump House was turned off September 20, 2010 due to absence of recoverable LNAPL. Passive remediation began on October 10, 2010 with the installation of absorbent socks in wells. Based on limited recoverable LNAPL in the monitoring wells, passive remediation was discontinued on January 26, 2015 and the equipment was subsequently removed. Due to continued presence of elevated benzene concentrations in soil and groundwater in this area, remediation alternatives are being evaluated.

AOI 7 – Former Girard Point Refinery, Fuels Processing Area

Consent Order / Characterization Status

A repackaged AOI 7 SCR/RIR was submitted to the PADEP and the USEPA on February 29, 2012. A RIR Addendum was submitted to the agencies on September 19, 2013. On December 18, 2013, Sunoco received comments on the RIR Addendum from the PADEP. These comments were addressed in the revised RIR that was submitted June 9, 2017. The RIR was approved in correspondence dated August 30, 2017.

3 Separator Remediation System – Operation During the First Half of 2021

On July 12, 2011, Sunoco reported a hydrocarbon sheen on the Schuylkill River to the National Response Center. The sheen was directly adjacent to the Girard Point Refinery No. 3 Separator. In response to the sheen on the river, Sunoco investigated the source of hydrocarbons to the river through the installation of monitoring wells and exploratory excavation around a process sewer junction box associated with the 137 Crude Unit and the No. 3 Separator. The monitoring wells demonstrated measurable oil on the water table and the exploratory excavation revealed integrity issues with the junction box. The junction box and associated bulkhead penetration were sealed with concrete.

Construction of a ten recovery well hydraulic control system was completed on August 23, 2012 and included RW-801, RW-802, RW-803, RW-804, RW-805, RW-806, RW-807, RW-808, RW-809, and RW-810. Groundwater and LNAPL are extracted using pneumatic submersible pumps and total fluids pass through an OWS. Water is discharged to an onsite process sewer. LNAPL is recovered in a 1,100-gallon holding tank and managed by the PESRM facility.

In 2013, PESRM assumed primary responsibility for the 3 Separator System due to newer PESRM releases from the sewer system, which connects the 137 Crude Unit to the No. 4 Separator, in the vicinity of the No. 3 Separator. Remediation system operation and maintenance activities are managed by PESRM.

AOI 8 – Former Point Breeze Refinery, North Yard

Consent Order / Characterization Status

An SCR was submitted to the PADEP on September 30, 2008. A repackaged SCR/RIR addressing the PADEP's comments was submitted to the PADEP and the USEPA on January 31, 2012. Comments from the PADEP on the SCR/RIR were received by email on July 7, 2012. A revised RIR dated December 21, 2017 was submitted to the PADEP. PADEP issued an approval letter on March 22, 2018.

Northern AOI 8/Verizon Area - Maiden Lane Remediation System

The northern boundary of AOI 8 near the South District Work Center of Verizon Pennsylvania, LLC (Verizon SDWC) property was evaluated for offsite impacts and system installation. A test well (N-157) was installed in 2017, and a performance test was conducted to evaluate the feasibility of LNAPL recovery as a remedial option near the adjacent Verizon SDWC property. During the second half of 2019, a horizontal well (HW-4) was installed in this area along the PESRM property boundary for the purpose of groundwater and LNAPL recovery. A total fluids groundwater remediation system was installed and became fully operational in January 2021. Liquids are processed through an OWS and groundwater is discharged to a PWD sewer. LNAPL is recovered in two 550-gallon holding tanks and managed by the PESRM facility.

The Maiden Lane Remediation System was operational during the first half of 2021. System operation details and performance data for the system can be found in **Appendix 1**. A total of 2,223,050 gallons of groundwater and 2,384 gallons of LNAPL were recovered by the Maiden Lane Remediation System during the reporting period.

PGW Border Remediation System – Operation During the First Half of 2021

The PGW Border Remediation System was replaced during 2019. Evergreen installed 30 new recovery wells (RW-207 through RW-236) and new remediation system equipment which allow groundwater and LNAPL recovery along the PGW border in the area of the former remediation system. Within recovery well RW-206 and each of the 30 new recovery wells, a pneumatic submersible pump was installed to recover groundwater and LNAPL. The PGW Border Remediation System began operation in February 2020 and was operational during the reporting period. Liquids are processed through an OWS and water is discharged to a process sewer. LNAPL is recovered in a 550-gallon tank and then recycled by the PESRM facility.

The PGW Border Remediation System was operational during the first half of 2021. System operation details and performance data for the system can be found in **Appendix 1**. A total of 3,175,630 gallons of groundwater and 647 gallons of LNAPL were recovered by the PGW Border Remediation System during the reporting period.

Jackson Street Sewer Remediation System – Operation During the First Half of 2021

The Jackson Street Sewer Remediation System consists of two components, an inactive total fluids system with submersible pumps that formerly recovered groundwater and LNAPL (Jackson Street System) and a vapor suppression water curtain installed in the Jackson Street Sewer Remediation System (Jackson Street Water Curtain).

Due to limited LNAPL presence, the Jackson Street Remediation System is offline and equipment was removed. The Jackson Street Remediation System will remain off unless there are significant increases in LNAPL in the proximal wells.

From January 15 to January 29, passive sewer gas samplers were deployed in manholes along the Jackson Street Sewer System to evaluate vapor conditions while the Jackson Street Water Curtain was active. A second round of passive sewer gas sampling is planned for July 2021. In May 2021, the water supply to the Jackson Street Water Curtain was terminated during site demolition activities. The system was inoperable for the remainder of the report period. Daily vapor monitoring of the sewer at the Jackson Street Water Curtain was conducted during this period pending restoration of the water supply. System data and operational status for the first half of 2021 is included in **Appendix 1**.

AOI 9 – Schuylkill River Tank Farm

There are no operational groundwater or LNAPL remediation systems in AOI 9. A SCR was submitted to the PADEP and the USEPA on October 30, 2009. A revised RIR was submitted to the agencies in December 2015. The RIR was disapproved, and a RIR Addendum to address the deficiencies was submitted on February 8, 2017. On April 18, 2018 the PADEP disapproved the RIR Addendum due to lack of offsite wells. Evergreen has obtained information from existing offsite wells, and five wells (S-146SRTF, S-147SRTF, S-148SRTF, S-149SRTF, and S-150SRTF) were installed in October 2018 along Essington Avenue, west of the Schuylkill River Tank Farm, to evaluate offsite groundwater conditions. A RIR Addendum will be submitted in 2021 to summarize available offsite information.

AOI 10 – Former Point Breeze Refinery, West Yard

There are no operational groundwater or LNAPL remediation systems in AOI 10. A SCR/RIR was submitted to the PADEP and the USEPA on June 29, 2011. Approval of the RIR was received from the PADEP on January 6, 2012. An ecological assessment was conducted in 2015 and 2016, and an Ecological Risk Assessment Report was submitted in June 2016, which was approved on November 10, 2016.

A Solid Waste Management Unit (SWMU) closure letter which addressed past disposal areas located in AOI 10 and AOI 8 (SWMU 1 and SWMU 2, respectively) was submitted to the USEPA on February 16, 2016. On November 29, 2016, the USEPA issued a response letter approving no further investigation or remediation required for SWMU 2 and denying the no further action request for SWMU 1. Evergreen collected additional information in 2017 to address the USEPA letter as well as the 2016 PADEP comments on the 2011 SCR/RIR and the Ecological Risk Assessment Report. A follow-up SWMU closure letter will be submitted to address SWMU 1 along with all other SWMUs previously identified at the facility to request concurrence that no further investigation is required, and acknowledge if any SWMUs require continued long-term stewardship.

AOI 11 – Lower Aquifer

The AOI 11 SCR/RIR was submitted to the PADEP and the USEPA on September 12, 2011. Sunoco received comments to the report by email on December 9, 2011. A Final Report was submitted to the agencies on June 21, 2013 which included activities to address the SCR/RIR disapproval. Sunoco received a "Disapproval of Final Report" from the PADEP dated September 26, 2013. Subsequent collection and reporting of characterization information from the lower aquifer wells across the facility has been incorporated into the other AOI RIR submitted to date.

Groundwater Monitoring

The current monitoring program consists of groundwater and LNAPL gauging and sampling of select monitoring wells. The wells are generally selected to monitor LNAPL thicknesses and determine hydraulic effects of targeted remediation systems. Sitewide well gauging events are also conducted to identify the presence of LNAPL and determine groundwater flow patterns. Annual sitewide groundwater sampling has historically been performed in the second quarter in conjunction with annual sitewide gauging. The groundwater sampling schedule will be flexible depending on the fate of the facility and remediation goals.

Liquid level measurements collected during the first quarter of 2021 are provided in **Table 1**. The sitewide 2021 liquid level measurements are provided in **Table 2**. The LNAPL thicknesses in these wells are evaluated to determine if changes are due to natural conditions such as seasonal groundwater fluctuation or other factors.

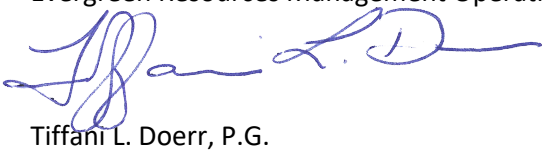
The annual perimeter groundwater samples are analyzed pursuant to Pennsylvania's Land Recycling Program for leaded and unleaded gasoline and No. 2, 4, 5, and 6 fuel oils. These parameters include benzene, cumene (isopropylbenzene), 1,2-dichloroethane (EDC), ethylbenzene, methyl tertiary butyl ether (MTBE), toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and total xylenes by USEPA SW846 Method 8260B; 1,2-dibromoethane (EDB) by USEPA SW 846 Method 8011; anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, chrysene, fluorene, naphthalene, phenanthrene, and pyrene by USEPA SW846 Method 8270D; dissolved lead by USEPA SW846 Method 6010C. Additionally, wells were sampled for tert-Butyl alcohol (TBA) analyses during the annual groundwater sampling event for the purposes of fate and transport characterization and groundwater modeling.

A summary of the annual sitewide groundwater sampling results from the April and May 2021 sampling event is provided in **Table 3**. A summary of the historical groundwater sampling analytical data is provided in **Table 4**. The laboratory analytical reports for the 2021 annual groundwater sampling event are included electronically in **Appendix 2**.

Please contact me at (302) 477-1305 or tldoerr@evergreenresmgt.com with any questions or comments.

Best Regards,

Evergreen Resources Management Operations



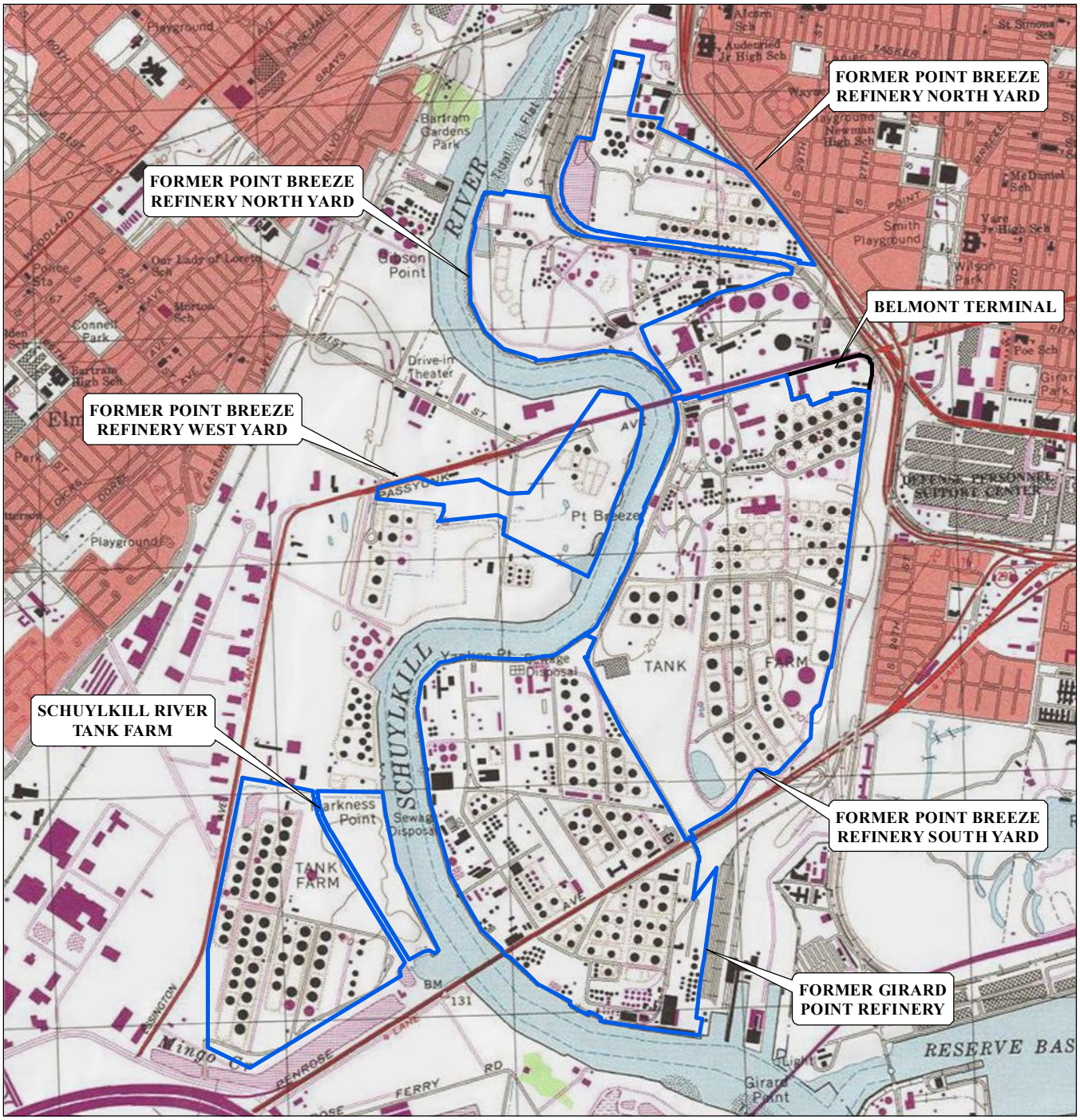
Tiffani L. Doerr, P.G.
Project Manager

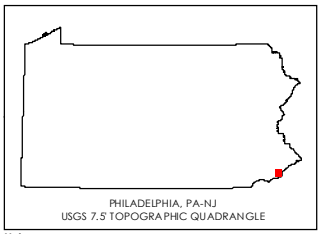
Enclosures:
Figure 1 – Site Location Map
Figure 2 – Site Plan
Figure 3 – Apparent LNAPL Thickness Map, April 2021
Figure 4 – Water-Table Groundwater Elevation Map, April 2021
Figure 5 – Lower Aquifer Groundwater Elevation Map, April 2021
Table 1 – First Quarter 2021 Gauging Data
Table 2 – Sitewide 2021 Gauging Data
Table 3 – Sitewide 2021 Annual Groundwater Sampling Analytical Results
Table 4 – Historical Perimeter Groundwater Sampling Analytical Results
Appendix 1 – Remediation System Recovery Data
Appendix 2 – Laboratory Analytical Data Reports (electronic)

cc: Mr. Kevin Bilash (USEPA)
Mr. Nicholas Maliha, PE (PWD)
Mr. Charles D. Barksdale, Jr. PE (HRP)
Ms. Julianna B. Connolly, LSP (Green Ladder Environmental, LLC)
Mr. Andrew Bradley (Stantec)

File: ENFOS

FIGURES





Legend

- FORMER PHILADELPHIA REFINING COMPLEX
- BELMONT TERMINAL

0 1,100 2,200 Feet

1:26,400 (at original document size of 8.5x11)

N

Stantec

EVERGREEN

Notes

1. Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet
2. Sources: Stantec, USGS
3. Service Layer Credits: Copyright© 2013 National Geographic Society, i-cubed

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Project Location
City of Philadelphia, Philadelphia County, Pennsylvania

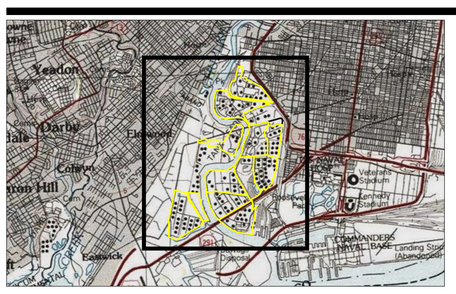
213403363
Prepared by GWC on 7/14/2021
Technical Review by DPH on 7/15/2021
Independent Review by JKK on 7/26/2021

Client/Project
PHILADELPHIA REFINERY OPERATIONS, A SERIES OF EVERGREEN RESOURCES GROUP, LLC
FORMER PHILADELPHIA REFINERY
3144 PASSYUNK AVENUE, PHILADELPHIA, PA 19145

Figure No.
1

Title
SITE LOCATION MAP





Notes

1. Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet
2. Source: Stantec
3. Aerial & Topo Source: Copyrights© 2013 National Geographic Society, i-cubed Pictometry International Corp, Philadelphia Imagery 2018 downloaded from Pennsylvania Spatial Data Access (PASDA)

Legend

- MONITORING WELL
- RECOVERY WELL
- DAMAGED MONITORING WELL
- DESTROYED MONITORING WELL
- PIEZOMETER
- UNABLE TO ACCESS OR UNABLE TO LOCATE
- APPROXIMATE LOCATION OF PHILADELPHIA WATER DEPARTMENT SEWER
- REMEDIATION SYSTEMS DESIGNATED AS CURRENTLY ACTIVE
- AREA OF INTEREST (AOI)
- BELMONT TERMINAL
- PHILADELPHIA GAS WORKS (PGW) PASSYUNK FACILITY PROPERTY
- VERIZON SOUTH DISTRICT WORK CENTER (SDWC) PROPERTY

0 400 800 Feet

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N

Figure No.

2

Title

SITE PLAN

Client/Project

PHILADELPHIA REFINERY OPERATIONS, A SERIES OF
EVERGREEN RESOURCES GROUP, LLC
FORMER PHILADELPHIA REFINERY
3144 PASSYUNK AVENUE, PHILADELPHIA, PA 19145

Project Location

City of Philadelphia,
Philadelphia County,
Pennsylvania

213403363

Prepared by GWC on 7/14/2021
Technical Review by DPH on 7/15/2021
Independent Review by JKK on 7/26/2021

Stantec

EVERGREEN

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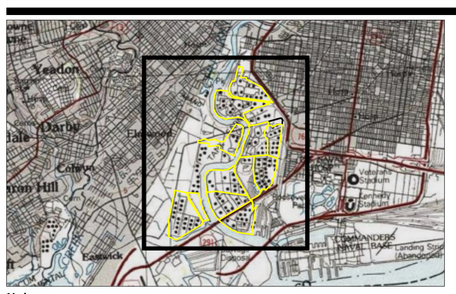

Legend

- WELL – LIGHT NON-AQUEOUS PHASE LIQUID (LNAPL) OBSERVED
- WELL – LNAPL NOT OBSERVED
- WELL – NOT MEASURED (SEE NOTE 4)
- APPROXIMATE LOCATION OF PHILADELPHIA WATER DEPARTMENT SEWER
- REMEDIATION SYSTEMS DESIGNATED AS CURRENTLY ACTIVE
- AREA OF INTEREST (AOI)
- BELMONT TERMINAL
- PHILADELPHIA GAS WORKS (PGW) PASSYUNK FACILITY PROPERTY
- VERIZON SOUTH DISTRICT WORK CENTER (SDWC) PROPERTY
- 1.12 APPARENT LNAPL THICKNESS (FEET)
- <0.01 SHEEN
- NM NOT MEASURED

Notes

1. Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet North American Vertical Datum of 1988 (NAVD 88)
2. Source: Stantec
3. Callouts denote product thickness measured in feet using an interface probe.
4. Measurements from wells gauged during the April 2021 event are provided. Wells not measured during the event include (but are not limited to) damaged wells, destroyed wells, inaccessible wells, wells with pumps, and wells that were gauged but dry.
5. Aerial & Topo Copyright:© 2013 National Geographic Society, i-cubed PEMA Philadelphia County 2018 Aerial Imagery

0 400 800 Feet

1:4,800 (At original document size of 36x48)

N

Figure No.

3

Title

APPARENT LNAPL THICKNESS MAP APRIL 2021

Client/Project

PHILADELPHIA REFINERY OPERATIONS, A SERIES OF EVERGREEN RESOURCES GROUP, LLC
FORMER PHILADELPHIA REFINERY
3144 PASSYUNK AVENUE, PHILADELPHIA, PA 19145

Project Location

City of Philadelphia, Philadelphia County, Pennsylvania

213403363

Prepared by GWC on 7/6/2021
Technical Review by JKK on 7/9/2021
Independent Review by DPH on 7/13/2021

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Legend

- WATER-TABLE MONITORING WELL
- RECOVERY WELL
- PIEZOMETER
- WATER-TABLE ELEVATION CONTOUR (FEET NAVD 88)
- APPROXIMATE LOCATION OF PHILADELPHIA WATER DEPARTMENT SEWER
- LIMITS OF WATER-TABLE WELL CONTROL
- AREA OF INTEREST (AOI)
- BELMONT TERMINAL
- VERIZON SOUTH DISTRICT WORK CENTER (SDWC) PROPERTY
- PHILADELPHIA GAS WORKS (PGW) PASSYUNK FACILITY PROPERTY
- 4.62 WATER-TABLE ELEVATION (FEET NAVD 88)

Notes

1. Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet, North American Vertical Datum of 1988 (NAVD 88)
2. Source: Stantec
3. Callouts denote corrected groundwater elevation in feet. Depth to groundwater was measured in each well to the nearest one-hundredth of a foot using an interface probe. Active groundwater remediation systems were in operation during well gauging.
4. Groundwater elevation data was interpolated using block kriging with a linear variogram model in Surfer.
5. Wells not measured during the April 2021 event are not displayed and include (but not limited to) damaged wells, destroyed wells, inaccessible wells, wells with pumps, and wells that were gauged but dry.
6. Wells gauged during April 2021 but not utilized for water-table contouring include those containing measurable light, non-aqueous phase liquid, wells screened across a fill-supported perched aquifer, wells intersecting more than one water-bearing unit, wells with fouled screens, a subset of the remediation system wells, and wells excluded from contouring in recent Remedial Investigation Reports. Wells not used for contouring are not displayed.
7. Contour Interval = 1 foot
8. Aerial & Topo Copyright:© 2013 National Geographic Society, i-cubed
   Pictometry International Corp, Philadelphia Imagery 2018 downloaded from Pennsylvania Spatial Data Access (PASDA)

0 400 800 Feet

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N

Figure No.

4

Title

WATER-TABLE GROUNDWATER ELEVATION MAP APRIL 2021

Client/Project

PHILADELPHIA REFINERY OPERATIONS, A SERIES OF
EVERGREEN RESOURCES GROUP, LLC
FORMER PHILADELPHIA REFINERY
3144 PASSYUNK AVENUE, PHILADELPHIA, PA 19145

Project Location

City of Philadelphia,
Philadelphia County,
Pennsylvania

213403363

Prepared by GWC on 7/14/2021
Technical Review by DPH on 7/16/2021
Independent Review by JKK on 7/16/2021

Stantec

EVERGREEN

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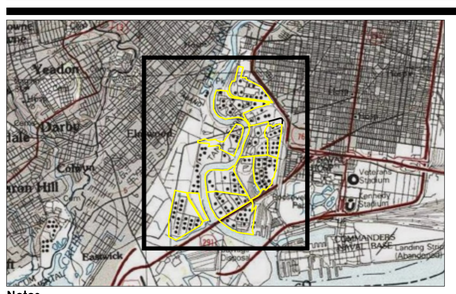

Notes

1. Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet North American Vertical Datum of 1988 (NAVD 88)
2. Source: Stantec
3. Callouts denote corrected groundwater elevation in feet. Depth to groundwater was measured in each well to the nearest one-hundredth of a foot using an interface probe.
4. Groundwater elevation data was interpolated using block kriging with a linear variogram model in Surfer.
5. Contour Interval = 1 foot
6. Aerial & Topo Copyright:© 2013 National Geographic Society, i-cubed Pictometry International Corp, Philadelphia Imagery 2018 downloaded from Pennsylvania Spatial Data Access (PASDA)

Legend

- LOWER AQUIFER MONITORING WELL
- GROUNDWATER ELEVATION CONTOUR (FEET NAVD 88)
- APPROXIMATE LOCATION OF PHILADELPHIA WATER DEPARTMENT SEWER
- LIMITS OF LOWER AQUIFER WELL CONTROL
- AREA OF INTEREST (AOI)
- BELMONT TERMINAL
- VERIZON SOUTH DISTRICT WORK CENTER (SDWC) PROPERTY
- PHILADELPHIA GAS WORKS (PGW) PASSYUNK FACILITY PROPERTY
- 1.04 GROUNDWATER ELEVATION (FEET NAVD 88)

0 400 800 Feet

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Figure No.

5

Title

LOWER AQUIFER GROUNDWATER ELEVATION MAP APRIL 2021

Client/Project

PHILADELPHIA REFINERY OPERATIONS, A SERIES OF EVERGREEN RESOURCES GROUP, LLC
FORMER PHILADELPHIA REFINERY
3144 PASSYUNK AVENUE, PHILADELPHIA, PA 19145

Project Location

City of Philadelphia, Philadelphia County, Pennsylvania

213403363

Prepared by GWC on 7/15/2021
Technical Review by DPH on 7/15/2021
Independent Review by JKK on 7/16/2021

Stantec

EVERGREEN

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TABLES

Table 1
First Quarter 2021 Gauging Data
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

AOI	SortLoc	Well ID	Date	Depth to LNAPL (ft btoc)	Depth to Water (feet btoc)	Apparent LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft NAVD 88)	Well Classification	Static or Pumping	Comments
AOI 1	PZ-401	PZ-401	25-Jan-21	19.86	19.86	<0.01	3.87	unconfined	Static	
AOI 1	PZ-402	PZ-402	25-Jan-21	19.62	19.89	0.27	3.72	unconfined	Static	
AOI 1	RW-401	RW-401	25-Jan-21	20.80	21.12	0.32	3.91	unconfined	Static	
AOI 1	RW-402	RW-402	25-Jan-21	---	20.00	---	1.71	unconfined	Pumping	
AOI 1	RW-406	RW-406	25-Jan-21	22.89	23.23	0.34	5.63	NYC	Static	
AOI 1	S-082	S-82	25-Jan-21	22.94	22.94	<0.01	4.36	unconfined	Static	
AOI 1	S-083	S-83	25-Jan-21	19.64	19.92	0.28	3.64	unconfined	Static	
AOI 1	S-125	S-125	25-Jan-21	22.13	22.34	0.21	3.82	unconfined	Static	
AOI 1	S-180	S-180	25-Jan-21	---	18.49	---	3.71	unconfined	Static	
AOI 1	S-181	S-181	25-Jan-21	---	20.85	---	2.01	unconfined	Pumping	
AOI 1	S-182	S-182	25-Jan-21	19.19	19.25	0.06	3.80	unconfined	Static	
AOI 1	S-183	S-183	25-Jan-21	---	21.00	---	2.48	unconfined	Pumping	
AOI 1	S-184	S-184	25-Jan-21	---	21.10	---	2.38	unconfined	Pumping	
AOI 1	S-185	S-185	25-Jan-21	---	19.15	---	4.73	unconfined	Static	
AOI 1	S-186	S-186	25-Jan-21	19.58	19.72	0.14	4.75	unconfined	Static	
AOI 1	S-187	S-187	25-Jan-21	19.87	20.43	0.56	4.53	unconfined	Static	
AOI 1	S-188	S-188	25-Jan-21	---	20.16	---	4.66	unconfined	Static	
AOI 1	S-189	S-189	25-Jan-21	---	21.30	---	4.49	unconfined	Static	
AOI 1	S-190	S-190	25-Jan-21	---	21.10	---	4.47	unconfined	Static	
AOI 1	S-191	S-191	25-Jan-21	---	21.30	---	4.53	unconfined	Static	
AOI 1	S-192	S-192	25-Jan-21	---	21.50	---	4.52	unconfined	Static	
AOI 1	S-274	S-274	25-Jan-21	---	22.85	---	4.52	unconfined	Static	
AOI 1	S-275	S-275	25-Jan-21	---	22.07	---	4.50	unconfined	Static	
AOI 1	S-276	S-276	25-Jan-21	22.40	23.17	0.77	4.03	unconfined	Static	
AOI 1	S-277	S-277	25-Jan-21	22.23	22.85	0.62	3.34	unconfined	Static	
AOI 4	RW-700	RW-700	28-Jan-21	---	16.34	---	1.67	unconfined	Static	
AOI 4	RW-701	RW-701	28-Jan-21	---	16.52	---	1.75	unconfined	Static	
AOI 4	RW-702	RW-702	28-Jan-21	---	19.43	---	1.53	unconfined	Static	
AOI 4	RW-703	RW-703	28-Jan-21	---	19.34	---	1.28	unconfined	Static	
AOI 4	RW-704	RW-704	28-Jan-21	---	18.93	---	1.30	unconfined	Static	
AOI 4	RW-705	RW-705	28-Jan-21	---	14.30	---	1.62	unconfined	Static	
AOI 4	RW-706	RW-706	28-Jan-21	---	14.31	---	1.58	unconfined	Static	
AOI 4	RW-707	RW-707	28-Jan-21	---	14.72	---	1.57	unconfined	Static	
AOI 4	RW-708	RW-708	28-Jan-21	---	13.84	---	1.65	unconfined	Static	
AOI 4	RW-709	RW-709	28-Jan-21	---	13.66	---	1.64	unconfined	Static	
AOI 4	RW-710	RW-710	28-Jan-21	---	14.51	---	1.37	unconfined	Static	
AOI 4	RW-711	RW-711	28-Jan-21	---	13.83	---	1.66	unconfined	Static	
AOI 4	RW-712	RW-712	28-Jan-21	---	13.94	---	1.62	unconfined	Static	
AOI 4	RW-713	RW-713	28-Jan-21	---	13.39	---	1.63	unconfined	Static	
AOI 4	RW-714	RW-714	28-Jan-21	---	13.55	---	1.66	unconfined	Static	
AOI 4	RW-715	RW-715	28-Jan-21	---	13.70	---	1.67	unconfined	Static	
AOI 4	RW-716	RW-716	28-Jan-21	---	13.88	---	1.67	unconfined	Static	
AOI 4	RW-717	RW-717	28-Jan-21	---	13.90	---	1.71	unconfined	Static	
AOI 4	S-221	S-221	28-Jan-21	21.23	21.26	0.03	1.77	unconfined	Static	
AOI 4	S-236	S-236	28-Jan-21	21.27	21.27	<0.01	1.71	unconfined	Static	
AOI 4	S-237	S-237	28-Jan-21	21.09	21.14	0.05	1.72	unconfined	Static	
AOI 7	RW-801	RW-801	25-Jan-21	---	18.10	---	-11.83	NYC	Pumping	
AOI 7	RW-802	RW-802	25-Jan-21	---	19.55	---	-13.85	NYC	Pumping	
AOI 7	RW-803	RW-803	25-Jan-21	---	19.50	---	-13.72	NYC	Pumping	
AOI 7	RW-804	RW-804	25-Jan-21	---	19.10	---	-13.32	NYC	Pumping	
AOI 7	RW-805	RW-805	25-Jan-21	---	18.00	---	-12.25	NYC	Pumping	
AOI 7	RW-806	RW-806	25-Jan-21	---	19.60	---	-14.19	NYC	Pumping	
AOI 7	RW-807	RW-807	25-Jan-21	---	18.00	---	-11.16	NYC	Pumping	
AOI 7	RW-808	RW-808	25-Jan-21	---	18.00	---	-11.92	NYC	Pumping	
AOI 7	RW-809	RW-809	25-Jan-21	---	20.30	---	-13.75	NYC	Pumping	
AOI 7	RW-810	RW-810	25-Jan-21	---	15.10	---	-8.66	NYC	Pumping	
AOI 8	PGW-MW-24	PGW-MW-24	26-Jan-21	---	25.98	---	10.68	unconfined	Static	
AOI 8	RW-206	RW-206	27-Jan-21	---	22.85	---	6.17	unconfined	Pumping	
AOI 8	RW-208	RW-208	27-Jan-21	---	24.45	---	5.08	unconfined	Pumping	
AOI 8	RW-209	RW-209	27-Jan-21	---	23.30	---	5.83	unconfined	Pumping	
AOI 8	RW-210	RW-210	27-Jan-21	---	23.90	---	5.00	unconfined	Pumping	
AOI 8	RW-211	RW-211	27-Jan-21	---	22.40	---	6.48	unconfined	Pumping	
AOI 8	RW-212	RW-212	27-Jan-21	---	22.00	---	6.87	unconfined	Pumping	
AOI 8	RW-213	RW-213	27-Jan-21	---	23.05	---	5.31	unconfined	Pumping	
AOI 8	RW-214	RW-214	27-Jan-21	---	24.35	---	4.81	unconfined	Pumping	
AOI 8	RW-215	RW-215	27-Jan-21	---	22.60	---	6.15	unconfined	Pumping	
AOI 8	RW-217	RW-217	27-Jan-21	---	23.85	---	4.25	unconfined	Pumping	
AOI 8	RW-218	RW-218	27-Jan-21	---	22.70	---	5.32	unconfined	Pumping	
AOI 8	RW-219	RW-219	27-Jan-21	---	19.90	---	7.52	unconfined	Pumping	
AOI 8	RW-220	RW-220	27-Jan-21	---	25.30	---	2.20	unconfined	Pumping	
AOI 8	RW-221	RW-221	27-Jan-21	---	25.00	---	2.64	unconfined	Pumping	
AOI 8	RW-222	RW-222	27-Jan-21	---	26.55	---	1.55	unconfined	Pumping	

Table 1
First Quarter 2021 Gauging Data
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

AOI	SortLoc	Well ID	Date	Depth to LNAPL (ft btoc)	Depth to Water (feet btoc)	Apparent LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft NAVD 88)	Well Classification	Static or Pumping	Comments
AOI 8	RW-223	RW-223	27-Jan-21	---	24.00	---	5.52	unconfined	Pumping	
AOI 8	RW-225	RW-225	27-Jan-21	---	25.65	---	4.29	unconfined	Pumping	
AOI 8	RW-226	RW-226	27-Jan-21	---	19.85	---	7.72	unconfined	Pumping	
AOI 8	RW-227	RW-227	27-Jan-21	---	19.90	---	7.28	unconfined	Pumping	
AOI 8	RW-228	RW-228	27-Jan-21	---	18.90	---	8.25	unconfined	Pumping	
AOI 8	RW-229	RW-229	27-Jan-21	---	21.60	---	6.30	unconfined	Pumping	
AOI 8	RW-230	RW-230	27-Jan-21	---	19.15	---	8.87	unconfined	Pumping	
AOI 8	RW-231	RW-231	27-Jan-21	---	19.30	---	7.53	unconfined	Pumping	
AOI 8	RW-232	RW-232	27-Jan-21	---	16.35	---	5.68	unconfined	Pumping	
AOI 8	RW-233	RW-233	27-Jan-21	---	8.70	---	12.38	unconfined	Pumping	
AOI 8	RW-234	RW-234	27-Jan-21	---	20.70	---	7.94	unconfined	Pumping	
AOI 8	RW-235	RW-235	27-Jan-21	---	20.30	---	7.79	unconfined	Pumping	
AOI 8	RW-236	RW-236	27-Jan-21	---	20.90	---	6.31	unconfined	Pumping	
BELMONT	RW-400	RW-400	25-Jan-21	---	23.60	---	4.59	unconfined	Static	
PGW	PGW-MW-22	PGW-MW-22	26-Jan-21	---	26.53	---	10.48	unconfined	Static	
PGW	PGW-MW-25	PGW-MW-25	26-Jan-21	25.10	25.10	<0.01	10.84	unconfined	Static	
PGW	PGW-MW-30	PGW-MW-30	26-Jan-21	19.41	21.33	1.92	14.16	unconfined	Static	
PGW	PGW-MW-31	PGW-MW-31	26-Jan-21	23.81	24.80	0.99	11.24	unconfined	Static	
PGW	PGW-MW-33	PGW-MW-33	26-Jan-21	24.53	24.54	0.01	11.20	unconfined	Static	
PGW	PGW-MW-34	PGW-MW-34	26-Jan-21	---	24.78	---	11.02	unconfined	Static	
PGW	PGW-MW-37	PGW-MW-37	26-Jan-21	25.21	25.22	0.01	10.65	unconfined	Static	
PGW	PGW-MW-42R	PGW-MW-42R	26-Jan-21	---	21.47	---	11.64	unconfined	Static	
PGW	PGW-MW-45	PGW-MW-45	26-Jan-21	---	22.03	---	12.71	unconfined	Static	

Notes:
For product thickness <0.01 ft, the corrected groundwater elevation was calculated using 0.01 foot.
LNAPL = Light non-aqueous phase liquid
ft = Feet
btoc = Below top of casing
ft btoc = Feet below top of casing
NAVD 88 = North American Vertical Datum of 1988
--- = LNAPL not present
NYC = Not yet classified

Table 2
Sitewide 2021 Annual Gauging Data
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

AOI	Well ID	Date	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	Apparent LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft NAVD 88)	Well Classification	Static or Pumping	Comments
AOI 1	ARCO-1	21-Apr-21	---	26.03	---	0.92	unconfined	Static	
AOI 1	ARCO-1D	21-Apr-21	---	25.77	---	1.29	lower aquifer	Static	
AOI 1	ARCO-2	21-Apr-21	---	25.11	---	0.89	unconfined	Static	
AOI 1	ARCO-3	21-Apr-21	---	23.91	---	0.40	unconfined	Static	
AOI 1	MWELL-28	23-Apr-21	---	20.69	---	0.96	unconfined	Static	
AOI 1	MWELL-29	21-Apr-21	---	21.99	---	0.23	unconfined	Static	
AOI 1	MWELL-30	21-Apr-21	---	25.80	---	0.33	unconfined	Static	
AOI 1	MWELL-31	21-Apr-21	---	25.15	---	0.77	unconfined	Static	
AOI 1	PZ-401	19-Apr-21	---	19.67	---	4.06	unconfined	Static	
AOI 1	PZ-402	19-Apr-21	19.38	19.40	0.02	4.01	unconfined	Static	
AOI 1	PZ-403	19-Apr-21	25.73	25.75	0.02	-1.32	unconfined	Static	
AOI 1	PZ-404	19-Apr-21	26.13	26.14	0.01	-0.12	unconfined	Static	
AOI 1	RW-110	21-Apr-21	---	16.55	---	1.12	unconfined	Static	
AOI 1	RW-111	21-Apr-21	---	16.25	---	1.47	unconfined	Static	
AOI 1	RW-112	21-Apr-21	---	16.18	---	1.43	unconfined	Static	
AOI 1	RW-401	19-Apr-21	20.48	20.60	0.12	4.27	unconfined	Static	
AOI 1	RW-402	23-Apr-21	---	20.12	---	1.59	unconfined	Pumping	
AOI 1	RW-403	20-Apr-21	---	20.61	---	3.52	unconfined	Static	
AOI 1	RW-404	20-Apr-21	---	22.03	---	1.71	unconfined	Static	
AOI 1	RW-405	20-Apr-21	24.36	24.50	0.14	-0.27	unconfined	Static	
AOI 1	RW-406	19-Apr-21	22.68	22.83	0.15	5.88	NYC	Static	
AOI 1	S-41	21-Apr-21	---	25.14	---	0.61	unconfined	Static	
AOI 1	S-42I	21-Apr-21	---	24.30	---	-0.74	lower aquifer	Static	
AOI 1	S-43	21-Apr-21	---	25.50	---	-2.28	unconfined	Static	
AOI 1	S-44	28-Apr-21	---	24.74	---	-1.40	unconfined	Static	
AOI 1	S-45	21-Apr-21	---	19.30	---	2.27	unconfined	Static	
AOI 1	S-46	20-Apr-21	---	21.10	---	1.46	unconfined	Static	
AOI 1	S-46D	21-Apr-21	---	13.80	---	1.91	lower aquifer	Static	
AOI 1	S-47I	20-Apr-21	---	20.71	---	1.50	middle clay unit	Static	
AOI 1	S-50	20-Apr-21	---	22.11	---	0.32	unconfined	Static	
AOI 1	S-51	20-Apr-21	---	21.84	---	0.70	unconfined	Static	
AOI 1	S-52	20-Apr-21	---	22.36	---	1.18	unconfined	Static	
AOI 1	S-77	19-Apr-21	8.85	11.96	3.11	21.28	NYC	Static	
AOI 1	S-77P	19-Apr-21	---	28.38	---	4.66	unconfined	Static	
AOI 1	S-78	20-Apr-21	---	26.22	---	4.71	unconfined	Static	
AOI 1	S-79	20-Apr-21	NM	NM	NM	NM	NYC	Static	damaged - obstruction at 14.90 ft btoc
AOI 1	S-79P	28-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 1	S-80	20-Apr-21	---	27.43	---	4.70	unconfined	Static	
AOI 1	S-80D	20-Apr-21	---	28.66	---	3.08	lower aquifer	Static	
AOI 1	S-81	20-Apr-21	---	22.13	---	5.72	unconfined	Static	
AOI 1	S-82	19-Apr-21	---	22.79	---	4.50	unconfined	Static	
AOI 1	S-83	23-Apr-21	---	19.52	---	3.81	unconfined	Static	
AOI 1	S-84P	20-Apr-21	---	17.52	---	5.74	unconfined	Static	
AOI 1	S-85	20-Apr-21	---	23.29	---	1.84	unconfined	Static	
AOI 1	S-86	20-Apr-21	25.84	25.89	0.05	1.20	unconfined	Static	
AOI 1	S-87I	20-Apr-21	---	24.20	---	1.67	lower aquifer	Static	
AOI 1	S-88	28-Apr-21	---	24.42	---	-0.32	unconfined	Static	damaged
AOI 1	S-88A	20-Apr-21	---	14.63	---	9.17	unconfined	Static	
AOI 1	S-89	20-Apr-21	26.13	26.22	0.09	-0.15	unconfined	Static	
AOI 1	S-95	21-Apr-21	---	21.54	---	1.45	unconfined	Static	
AOI 1	S-98	21-Apr-21	22.65	22.67	0.02	6.15	unconfined	Static	
AOI 1	S-99	21-Apr-21	---	24.42	---	0.98	unconfined	Static	
AOI 1	S-100	21-Apr-21	23.50	23.54	0.04	3.44	unconfined	Static	
AOI 1	S-101	21-Apr-21	---	46.64	---	2.48	unconfined	Static	
AOI 1	S-116	21-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 1	S-117	28-Apr-21	---	16.69	---	1.72	unconfined	Static	
AOI 1	S-125	19-Apr-21	20.78	20.84	0.06	5.20	unconfined	Static	
AOI 1	S-126	20-Apr-21	13.44	14.37	0.93	14.93	NYC	Static	
AOI 1	S-127	21-Apr-21	---	15.75	---	1.35	unconfined	Static	
AOI 1	S-162	21-Apr-21	16.76	16.76	<0.01	1.31	unconfined	Static	
AOI 1	S-164	21-Apr-21	---	14.99	---	1.71	unconfined	Static	
AOI 1	S-171	21-Apr-21	NM	NM	NM	NM	NYC	Static	unable to locate
AOI 1	S-179	19-Apr-21	---	17.87	---	6.66	unconfined	Static	
AOI 1	S-180	19-Apr-21	---	16.44	---	5.76	unconfined	Static	
AOI 1	S-181	19-Apr-21	18.92	18.92	<0.01	3.95	unconfined	Pumping	
AOI 1	S-182	19-Apr-21	18.85	18.88	0.03	4.14	unconfined	Static	
AOI 1	S-183	19-Apr-21	20.79	20.80	0.01	2.69	unconfined	Pumping	

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Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

AOI	Well ID	Date	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	Apparent LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft NAVD 88)	Well Classification	Static or Pumping	Comments
AOI 1	S-184	27-Apr-21	---	21.07	---	2.41	unconfined	Pumping	
AOI 1	S-185	19-Apr-21	---	17.43	---	6.45	unconfined	Static	
AOI 1	S-186	19-Apr-21	---	19.41	---	4.95	unconfined	Static	
AOI 1	S-187	27-Apr-21	19.66	19.67	0.01	4.85	unconfined	Static	
AOI 1	S-188	19-Apr-21	---	20.11	---	4.71	unconfined	Static	
AOI 1	S-189	19-Apr-21	---	21.33	---	4.46	unconfined	Static	
AOI 1	S-190	19-Apr-21	---	21.06	---	4.51	unconfined	Static	
AOI 1	S-191	19-Apr-21	---	21.31	---	4.52	unconfined	Static	
AOI 1	S-192	27-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to access
AOI 1	S-193	21-Apr-21	---	23.40	---	4.70	unconfined	Static	
AOI 1	S-194	21-Apr-21	---	24.86	---	6.18	unconfined	Static	
AOI 1	S-196	21-Apr-21	---	45.30	---	4.75	unconfined	Static	
AOI 1	S-197	21-Apr-21	---	44.07	---	5.71	unconfined	Static	
AOI 1	S-198	20-Apr-21	24.75	25.13	0.38	4.50	unconfined	Static	
AOI 1	S-199	20-Apr-21	24.57	24.63	0.06	4.61	unconfined	Static	
AOI 1	S-200	20-Apr-21	---	24.45	---	4.61	unconfined	Static	
AOI 1	S-201	20-Apr-21	23.37	23.41	0.04	4.55	unconfined	Static	
AOI 1	S-202	20-Apr-21	---	28.20	---	4.41	unconfined	Static	
AOI 1	S-203	19-Apr-21	27.64	28.57	0.93	4.21	unconfined	Static	
AOI 1	S-205	19-Apr-21	17.22	17.25	0.03	10.95	NYC	Static	
AOI 1	S-206	20-Apr-21	---	27.30	---	4.48	unconfined	Static	
AOI 1	S-207	20-Apr-21	---	12.91	---	14.29	unconfined	Static	
AOI 1	S-208	21-Apr-21	---	18.75	---	2.11	unconfined	Static	
AOI 1	S-209	28-Apr-21	---	25.53	---	1.45	unconfined	Static	
AOI 1	S-210	20-Apr-21	---	23.32	---	0.37	unconfined	Static	
AOI 1	S-211	21-Apr-21	---	13.34	---	1.91	unconfined	Static	
AOI 1	S-212	21-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 1	S-213	21-Apr-21	---	13.37	---	1.84	unconfined	Static	
AOI 1	S-214	21-Apr-21	---	18.34	---	1.50	unconfined	Static	
AOI 1	S-215	21-Apr-21	NM	NM	NM	NM	NYC	Static	unable to locate
AOI 1	S-226	20-Apr-21	---	21.32	---	0.76	unconfined	Static	
AOI 1	S-227	21-Apr-21	---	21.82	---	-0.03	unconfined	Static	
AOI 1	S-228	23-Apr-21	---	21.25	---	-0.07	unconfined	Static	
AOI 1	S-230	20-Apr-21	---	19.75	---	0.44	unconfined	Static	
AOI 1	S-231	23-Apr-21	---	19.66	---	0.28	unconfined	Static	
AOI 1	S-232	28-Apr-21	---	19.97	---	0.34	unconfined	Static	
AOI 1	S-255	21-Apr-21	---	22.10	---	-0.19	unconfined	Static	
AOI 1	S-256	21-Apr-21	---	21.22	---	0.19	unconfined	Static	
AOI 1	S-257	28-Apr-21	---	22.93	---	0.34	unconfined	Static	
AOI 1	S-258	21-Apr-21	---	23.30	---	-0.50	unconfined	Static	
AOI 1	S-259	21-Apr-21	---	24.02	---	-1.46	unconfined	Static	
AOI 1	S-260	21-Apr-21	---	22.57	---	-0.87	unconfined	Static	
AOI 1	S-261	20-Apr-21	---	23.94	---	3.47	unconfined	Static	
AOI 1	S-262	20-Apr-21	---	18.02	---	1.42	unconfined	Static	
AOI 1	S-263	21-Apr-21	---	15.92	---	0.86	unconfined	Static	
AOI 1	S-264D	21-Apr-21	---	25.12	---	1.51	lower aquifer	Static	
AOI 1	S-265	21-Apr-21	---	14.06	---	17.12	NYC	Static	
AOI 1	S-266	21-Apr-21	NM	NM	NM	NM	NYC	Static	unable to locate
AOI 1	S-267	21-Apr-21	---	20.41	---	12.46	unconfined	Static	
AOI 1	S-268	21-Apr-21	---	26.70	---	4.75	unconfined	Static	
AOI 1	S-269	20-Apr-21	---	19.73	---	2.83	unconfined	Static	
AOI 1	S-270	20-Apr-21	---	20.74	---	2.39	unconfined	Static	
AOI 1	S-271	19-Apr-21	---	23.89	---	4.59	unconfined	Static	
AOI 1	S-272	19-Apr-21	---	20.64	---	7.72	unconfined	Static	
AOI 1	S-273	19-Apr-21	---	22.36	---	5.39	unconfined	Static	
AOI 1	S-274	19-Apr-21	---	22.73	---	4.64	unconfined	Static	
AOI 1	S-275	19-Apr-21	---	21.97	---	4.60	unconfined	Static	
AOI 1	S-276	19-Apr-21	23.38	23.43	0.05	3.20	unconfined	Static	
AOI 1	S-277	19-Apr-21	21.68	21.96	0.28	3.96	unconfined	Static	
AOI 1	S-312	21-Apr-21	---	5.54	---	12.34	unconfined	Static	
AOI 1	S-388D	20-Apr-21	---	24.63	---	1.56	lower aquifer	Static	
AOI 1	S-389D	19-Apr-21	---	24.52	---	1.78	lower aquifer	Static	
AOI 1	S-390D	20-Apr-21	---	24.85	---	1.63	lower aquifer	Static	
AOI 1	S-391D	20-Apr-21	---	28.39	---	3.07	lower aquifer	Static	
AOI 1	S-392D	21-Apr-21	---	18.42	---	1.55	lower aquifer	Static	
AOI 1	S-396	19-Apr-21	---	24.24	---	1.95	unconfined	Static	
AOI 1	S-397	20-Apr-21	---	24.98	---	1.62	lower aquifer	Static	

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AOI	Well ID	Date	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	Apparent LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft NAVD 88)	Well Classification	Static or Pumping	Comments
AOI 1	S-398	20-Apr-21	---	24.88	---	0.68	middle clay unit	Static	
AOI 1	S-399	21-Apr-21	---	18.63	---	1.53	lower aquifer	Static	
AOI 1	S-400	20-Apr-21	---	28.57	---	3.12	lower aquifer	Static	
AOI 1	S-401	20-Apr-21	---	29.01	---	2.75	middle clay unit	Static	
AOI 1	S-402	20-Apr-21	28.50	28.57	0.07	4.93	unconfined	Static	
AOI 1	S-403	20-Apr-21	23.49	23.57	0.08	3.32	unconfined	Static	
AOI 1	S-404	28-Apr-21	14.14	14.15	0.01	14.37	NYC	Static	
AOI 1	S-405	20-Apr-21	21.95	21.98	0.03	4.17	unconfined	Static	
AOI 1	S-417	20-Apr-21	26.75	26.76	0.01	5.53	unconfined	Static	
AOI 1	S-418	20-Apr-21	---	16.84	---	0.45	unconfined	Static	
AOI 1	S-419	28-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 1	S-470	23-Apr-21	---	23.48	---	1.97	lower aquifer	Static	
AOI 2	C-HEADER	19-Apr-21	---	13.23	---	7.38	NYC	Static	
AOI 2	PGW-MW-8D	19-Apr-21	---	31.81	---	3.30	lower aquifer	Static	
AOI 2	PGW-MW-8S	19-Apr-21	---	29.95	---	5.13	unconfined	Static	
AOI 2	PGW-MW-9D	20-Apr-21	---	29.16	---	3.27	lower aquifer	Static	
AOI 2	PZ-100	19-Apr-21	---	16.40	---	1.67	unconfined	Static	
AOI 2	PZ-101	19-Apr-21	---	8.98	---	8.19	NYC	Static	
AOI 2	RW-100	19-Apr-21	18.79	19.00	0.21	1.91	unconfined	Static	
AOI 2	RW-101	19-Apr-21	17.94	17.94	<0.01	1.84	unconfined	Static	
AOI 2	RW-102	19-Apr-21	15.22	15.22	<0.01	2.26	unconfined	Static	
AOI 2	RW-103	19-Apr-21	17.84	17.85	0.01	2.17	unconfined	Static	
AOI 2	RW-104	20-Apr-21	---	5.64	---	3.32	unconfined	Static	
AOI 2	RW-105	20-Apr-21	8.54	8.54	<0.01	0.15	unconfined	Static	
AOI 2	RW-106	27-Apr-21	7.98	8.00	0.02	1.32	unconfined	Static	
AOI 2	RW-107	19-Apr-21	---	9.30	---	1.25	unconfined	Static	
AOI 2	RW-108	19-Apr-21	---	7.54	---	2.36	unconfined	Static	
AOI 2	RW-109	19-Apr-21	---	7.45	---	2.40	unconfined	Static	
AOI 2	RW-113	20-Apr-21	---	9.16	---	1.07	unconfined	Static	
AOI 2	RW-114	20-Apr-21	---	11.75	---	1.26	unconfined	Static	
AOI 2	RW-115	20-Apr-21	---	8.99	---	1.21	unconfined	Static	
AOI 2	RW-116	20-Apr-21	---	9.49	---	1.32	unconfined	Static	
AOI 2	RW-117	20-Apr-21	8.38	8.44	0.06	1.39	unconfined	Static	
AOI 2	RW-118	20-Apr-21	---	10.39	---	1.43	unconfined	Static	
AOI 2	RW-119	20-Apr-21	11.50	11.50	<0.01	1.36	unconfined	Static	
AOI 2	RW-120	20-Apr-21	12.28	12.28	<0.01	1.31	unconfined	Static	
AOI 2	RW-121	20-Apr-21	---	13.99	---	1.31	unconfined	Static	
AOI 2	RW-122	20-Apr-21	---	8.83	---	1.41	unconfined	Static	
AOI 2	RW-123	20-Apr-21	---	8.50	---	1.47	unconfined	Static	
AOI 2	RW-124	20-Apr-21	---	7.50	---	1.66	NYC	Static	
AOI 2	RW-125	20-Apr-21	12.72	12.72	<0.01	1.56	unconfined	Static	
AOI 2	RW-126	20-Apr-21	---	7.42	---	1.81	unconfined	Static	
AOI 2	RW-127	20-Apr-21	---	12.58	---	1.32	unconfined	Static	
AOI 2	RW-128	20-Apr-21	7.51	7.51	<0.01	0.93	unconfined	Static	
AOI 2	RW-129	20-Apr-21	---	8.83	---	1.00	unconfined	Static	
AOI 2	RW-600	20-Apr-21	NM	NM	NM	NM	NYC	Static	unable to locate
AOI 2	RW-601	19-Apr-21	---	8.73	---	2.95	NYC	Static	
AOI 2	RW-603	19-Apr-21	NM	NM	NM	NM	NYC	Static	unable to locate
AOI 2	S-48	19-Apr-21	19.15	19.17	0.02	2.12	NYC	Static	
AOI 2	S-53	19-Apr-21	18.67	18.67	<0.01	3.02	unconfined	Static	
AOI 2	S-54	19-Apr-21	NM	NM	NM	NM	NYC	Static	unable to locate
AOI 2	S-61	19-Apr-21	15.98	15.98	<0.01	2.33	unconfined	Static	
AOI 2	S-62	19-Apr-21	NM	NM	NM	NM	unconfined	Static	damaged - obstruction at 5.05 ft btoc
AOI 2	S-63	19-Apr-21	19.77	19.81	0.04	1.49	unconfined	Static	
AOI 2	S-64	20-Apr-21	---	6.98	---	3.58	NYC	Static	
AOI 2	S-65	20-Apr-21	8.16	8.17	0.01	2.46	unconfined	Static	
AOI 2	S-70	20-Apr-21	---	15.05	---	7.05	NYC	Static	
AOI 2	S-71	19-Apr-21	---	20.79	---	3.25	unconfined	Static	
AOI 2	S-72	19-Apr-21	---	26.39	---	4.67	unconfined	Static	
AOI 2	S-72D	19-Apr-21	---	31.39	---	3.12	lower aquifer	Static	
AOI 2	S-91	19-Apr-21	---	20.06	---	3.07	unconfined	Static	
AOI 2	S-92	19-Apr-21	---	10.62	---	9.45	NYC	Static	
AOI 2	S-93	19-Apr-21	---	16.65	---	1.60	unconfined	Static	
AOI 2	S-105	19-Apr-21	---	10.01	---	2.52	NYC	Static	
AOI 2	S-106	19-Apr-21	NM	NM	NM	NM	NYC	Static	unable to locate
AOI 2	S-107	19-Apr-21	9.12	9.29	0.17	3.15	unconfined	Static	
AOI 2	S-108	19-Apr-21	---	7.26	---	3.46	unconfined	Static	damaged

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AOI 2	S-110	19-Apr-21	---	15.39	---	10.28	NYC	Static	
AOI 2	S-130	19-Apr-21	19.11	19.11	<0.01	3.38	NYC	Static	
AOI 2	S-131	19-Apr-21	---	16.79	---	1.97	unconfined	Static	
AOI 2	S-132	19-Apr-21	---	18.47	---	2.56	unconfined	Static	
AOI 2	S-133	19-Apr-21	---	19.67	---	2.35	unconfined	Static	
AOI 2	S-134	19-Apr-21	---	18.41	---	3.62	unconfined	Static	
AOI 2	S-135	19-Apr-21	---	21.98	---	1.21	unconfined	Static	
AOI 2	S-136	19-Apr-21	---	18.09	---	2.50	unconfined	Static	
AOI 2	S-137	19-Apr-21	---	17.31	---	2.73	NYC	Static	
AOI 2	S-139	19-Apr-21	---	19.31	---	2.15	unconfined	Static	
AOI 2	S-141	19-Apr-21	---	20.16	---	1.76	unconfined	Static	
AOI 2	S-142	19-Apr-21	19.30	19.40	0.10	0.53	unconfined	Static	
AOI 2	S-143	19-Apr-21	NM	NM	NM	NM	NYC	Static	unable to locate
AOI 2	S-145	19-Apr-21	NM	NM	NM	NM	NYC	Static	unable to locate
AOI 2	S-149	19-Apr-21	NM	NM	NM	NM	NYC	Static	unable to locate
AOI 2	S-150	19-Apr-21	---	17.37	---	3.46	unconfined	Static	
AOI 2	S-152	19-Apr-21	---	7.33	---	3.16	unconfined	Static	
AOI 2	S-153	19-Apr-21	---	6.57	---	3.24	unconfined	Static	
AOI 2	S-154	19-Apr-21	---	8.56	---	2.06	unconfined	Static	
AOI 2	S-156	19-Apr-21	---	18.38	---	2.46	unconfined	Static	
AOI 2	S-157	19-Apr-21	17.41	17.41	<0.01	2.54	unconfined	Static	
AOI 2	S-159	19-Apr-21	16.59	16.59	<0.01	2.29	unconfined	Static	
AOI 2	S-165	19-Apr-21	---	16.00	---	2.11	unconfined	Static	
AOI 2	S-166	19-Apr-21	---	14.56	---	3.67	unconfined	Static	
AOI 2	S-174	19-Apr-21	9.62	9.70	0.08	9.99	NYC	Static	
AOI 2	S-175	19-Apr-21	16.75	17.65	0.90	3.16	unconfined	Static	
AOI 2	S-177	19-Apr-21	---	17.36	---	2.20	unconfined	Static	
AOI 2	S-178	19-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 2	S-246A	20-Apr-21	---	10.77	---	0.99	unconfined	Static	
AOI 2	S-247	20-Apr-21	---	11.18	---	0.91	unconfined	Static	
AOI 2	S-248	20-Apr-21	---	9.99	---	0.81	unconfined	Static	
AOI 2	S-249	20-Apr-21	---	10.61	---	2.00	unconfined	Static	
AOI 2	S-251	19-Apr-21	---	17.66	---	1.61	unconfined	Static	
AOI 2	S-252	19-Apr-21	---	17.67	---	1.62	unconfined	Static	
AOI 2	S-253	19-Apr-21	---	18.94	---	1.89	unconfined	Static	
AOI 2	S-254	19-Apr-21	19.51	19.59	0.08	1.36	unconfined	Static	
AOI 2	S-292	19-Apr-21	---	19.37	---	9.40	NYC	Static	
AOI 2	S-294	19-Apr-21	---	29.45	---	5.02	unconfined	Static	
AOI 2	S-294D	19-Apr-21	---	31.32	---	3.36	lower aquifer	Static	
AOI 2	S-295	28-Apr-21	---	20.48	---	12.26	unconfined	Static	
AOI 2	S-297	19-Apr-21	NM	NM	NM	NM	NYC	Static	unable to locate
AOI 2	S-298	27-Apr-21	16.69	16.71	0.02	10.30	unconfined	Static	
AOI 2	S-299	19-Apr-21	---	21.21	---	2.79	unconfined	Static	
AOI 2	S-300	19-Apr-21	---	23.83	---	1.45	unconfined	Static	
AOI 2	S-301	19-Apr-21	---	16.65	---	3.76	unconfined	Static	
AOI 2	S-302	19-Apr-21	21.91	21.96	0.05	2.04	unconfined	Static	
AOI 2	S-302D	19-Apr-21	---	23.15	---	1.45	lower aquifer	Static	
AOI 2	S-303	19-Apr-21	19.65	19.78	0.13	2.92	unconfined	Static	
AOI 2	S-304	19-Apr-21	14.54	14.78	0.24	9.62	unconfined	Static	
AOI 2	S-305	19-Apr-21	---	17.68	---	2.05	unconfined	Static	
AOI 2	S-305D	19-Apr-21	---	19.03	---	1.45	lower aquifer	Static	
AOI 2	S-306	19-Apr-21	---	21.07	---	1.40	unconfined	Static	
AOI 2	S-307	19-Apr-21	---	16.10	---	2.47	unconfined	Static	
AOI 2	S-308	19-Apr-21	---	22.76	---	5.35	unconfined	Static	
AOI 2	S-309	19-Apr-21	---	17.48	---	2.25	unconfined	Static	
AOI 2	S-310	19-Apr-21	NM	NM	NM	NM	NYC	Static	damaged
AOI 2	S-311	19-Apr-21	22.26	22.27	0.01	3.91	unconfined	Static	
AOI 2	S-313	19-Apr-21	---	18.93	---	1.97	unconfined	Static	
AOI 2	S-314	19-Apr-21	---	19.05	---	1.65	unconfined	Static	
AOI 2	S-315	19-Apr-21	19.21	19.21	<0.01	1.27	NYC	Static	
AOI 2	S-316	19-Apr-21	---	16.12	---	4.78	NYC	Static	
AOI 2	S-317	19-Apr-21	---	18.49	---	1.70	unconfined	Static	
AOI 2	S-318	19-Apr-21	---	22.30	---	1.45	unconfined	Static	
AOI 2	S-328	27-Apr-21	---	19.49	---	2.48	unconfined	Static	
AOI 2	S-333	20-Apr-21	12.81	12.82	0.01	0.92	unconfined	Static	
AOI 2	S-335	19-Apr-21	---	9.04	---	1.06	unconfined	Static	
AOI 2	S-336	19-Apr-21	---	9.22	---	2.30	unconfined	Static	

Table 2
Sitewide 2021 Annual Gauging Data
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

AOI	Well ID	Date	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	Apparent LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft NAVD 88)	Well Classification	Static or Pumping	Comments
AOI 2	S-337	19-Apr-21	---	9.60	---	2.61	unconfined	Static	
AOI 2	S-338	19-Apr-21	12.65	12.69	0.04	2.88	unconfined	Static	
AOI 2	S-346	19-Apr-21	17.37	17.37	<0.01	2.13	unconfined	Static	
AOI 2	S-347	12-May-21	17.38	17.50	0.12	1.73	unconfined	Static	
AOI 2	S-348	12-May-21	15.19	15.36	0.17	4.37	unconfined	Static	
AOI 2	S-349	19-Apr-21	15.72	15.93	0.21	2.87	unconfined	Static	
AOI 2	S-350	19-Apr-21	---	26.59	---	4.89	unconfined	Static	
AOI 2	S-351	19-Apr-21	---	30.42	---	4.82	unconfined	Static	
AOI 2	S-354	19-Apr-21	---	24.32	---	3.71	unconfined	Static	
AOI 2	S-355	19-Apr-21	26.85	27.04	0.19	3.94	unconfined	Static	
AOI 2	S-357	28-Apr-21	22.37	22.44	0.07	5.72	unconfined	Static	
AOI 2	S-359	19-Apr-21	---	17.21	---	3.07	unconfined	Static	
AOI 2	S-360	19-Apr-21	18.35	18.48	0.13	5.42	unconfined	Static	
AOI 2	S-361	19-Apr-21	---	22.56	---	3.81	unconfined	Static	
AOI 2	S-362	19-Apr-21	NM	NM	NM	NM	NYC	Static	damaged - obstruction at 4.72 ft bgs
AOI 2	S-363	23-Apr-21	NM	NM	NM	NM	NYC	Static	unable to locate
AOI 2	S-406	20-Apr-21	---	10.18	---	2.02	unconfined	Static	
AOI 2	S-420	20-Apr-21	---	6.65	---	2.61	unconfined	Static	
AOI 2	S-422	19-Apr-21	---	13.99	---	2.58	unconfined	Static	
AOI 2	S-423	19-Apr-21	26.26	26.86	0.60	5.10	unconfined	Static	
AOI 2	S-425	19-Apr-21	---	8.60	---	3.20	unconfined	Static	
AOI 2	S-426	19-Apr-21	---	6.35	---	5.25	unconfined	Static	
AOI 2	S-427	19-Apr-21	---	6.45	---	5.51	unconfined	Static	
AOI 2	S-472	20-Apr-21	---	28.61	---	4.58	unconfined	Static	
AOI 2	SD-1	19-Apr-21	---	7.82	---	11.68	NYC	Static	
AOI 3	BF-88	16-Apr-21	---	9.02	---	1.59	unconfined	Static	
AOI 3	BF-90	16-Apr-21	---	1.51	---	5.98	unconfined	Static	
AOI 3	BF-90D	16-Apr-21	---	9.07	---	0.70	lower aquifer	Static	
AOI 3	BF-99	16-Apr-21	---	9.58	---	1.38	unconfined	Static	
AOI 3	BF-100	16-Apr-21	---	10.99	---	1.37	unconfined	Static	
AOI 3	BF-101	28-Apr-21	---	3.72	---	3.15	NYC	Static	
AOI 3	BF-103R	16-Apr-21	13.25	13.70	0.45	1.19	unconfined	Static	
AOI 3	BF-104	16-Apr-21	---	4.73	---	7.01	unconfined	Static	
AOI 3	BF-105	16-Apr-21	---	10.45	---	1.46	unconfined	Static	
AOI 3	BF-106	16-Apr-21	---	12.25	---	1.37	unconfined	Static	
AOI 3	BF-107	16-Apr-21	---	10.97	---	1.39	unconfined	Static	
AOI 3	BF-108	16-Apr-21	---	10.41	---	0.57	lower aquifer	Static	
AOI 3	RW-2	16-Apr-21	10.52	10.53	0.01	0.77	unconfined	Static	
AOI 3	S-1	16-Apr-21	---	4.60	---	4.15	unconfined	Static	
AOI 3	S-2	16-Apr-21	---	3.97	---	3.24	unconfined	Static	
AOI 3	S-3	16-Apr-21	---	6.51	---	4.29	unconfined	Static	
AOI 3	S-5	16-Apr-21	3.39	3.44	0.05	2.43	unconfined	Static	
AOI 3	S-8	16-Apr-21	---	6.60	---	-0.18	lower aquifer	Static	
AOI 3	S-9	16-Apr-21	---	3.57	---	3.01	NYC	Static	
AOI 3	S-10	16-Apr-21	---	3.75	---	2.32	unconfined	Static	
AOI 3	S-11	16-Apr-21	---	3.42	---	2.96	NYC	Static	
AOI 3	S-12	16-Apr-21	---	3.95	---	2.28	unconfined	Static	
AOI 3	S-13	16-Apr-21	---	6.53	---	-0.17	lower aquifer	Static	
AOI 3	S-14	16-Apr-21	---	2.75	---	2.99	NYC	Static	
AOI 3	S-15	16-Apr-21	NM	NM	NM	NM	NYC	Static	damaged
AOI 3	S-16	16-Apr-21	---	21.33	---	2.35	unconfined	Static	
AOI 3	S-17	16-Apr-21	---	14.53	---	2.16	unconfined	Static	
AOI 3	S-18	16-Apr-21	---	3.67	---	19.82	NYC	Static	
AOI 3	S-19	16-Apr-21	NM	NM	NM	NM	NYC	Static	damaged - obstruction at 2 ft btoc
AOI 3	S-20	16-Apr-21	---	17.98	---	2.28	unconfined	Static	
AOI 3	S-21	16-Apr-21	---	10.70	---	12.03	NYC	Static	
AOI 3	S-22	28-Apr-21	---	18.84	---	-0.18	lower aquifer	Static	
AOI 3	S-23	16-Apr-21	---	17.95	---	2.33	unconfined	Static	
AOI 3	S-24	16-Apr-21	NM	NM	NM	NM	NYC	Static	damaged - obstruction at 1 ft btoc
AOI 3	S-25	16-Apr-21	NM	NM	NM	NM	unconfined	Static	damaged - obstruction at 7.79 ft bgs
AOI 3	S-59	15-Apr-21	---	8.68	---	3.81	unconfined	Static	
AOI 3	S-60	15-Apr-21	10.75	11.09	0.34	1.43	unconfined	Static	
AOI 3	S-66	16-Apr-21	NM	NM	NM	NM	NYC	Static	damaged
AOI 3	S-69	16-Apr-21	NM	NM	NM	NM	NYC	Static	damaged - obstruction at 1.08 ft btoc
AOI 3	S-69D	16-Apr-21	---	10.88	---	0.47	lower aquifer	Static	
AOI 3	S-112	16-Apr-21	NM	NM	NM	NM	NYC	Static	unable to locate
AOI 3	S-113	15-Apr-21	11.19	11.29	0.10	1.47	unconfined	Static	

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Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

AOI	Well ID	Date	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	Apparent LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft NAVD 88)	Well Classification	Static or Pumping	Comments
AOI 3	S-280	15-Apr-21	---	24.20	---	2.32	unconfined	Static	
AOI 3	S-280D	15-Apr-21	---	24.47	---	1.41	lower aquifer	Static	
AOI 3	S-281	15-Apr-21	---	12.95	---	1.41	unconfined	Static	
AOI 3	S-283	20-Apr-21	10.31	11.09	0.78	0.63	unconfined	Pumping	
AOI 3	S-284	16-Apr-21	---	7.43	---	2.09	unconfined	Static	
AOI 3	S-284D	16-Apr-21	---	10.98	---	1.04	lower aquifer	Static	
AOI 3	S-285	16-Apr-21	12.45	14.00	1.55	2.60	unconfined	Static	
AOI 3	S-288	16-Apr-21	---	10.64	---	8.45	unconfined	Static	
AOI 3	S-290	16-Apr-21	---	8.39	---	3.30	unconfined	Static	
AOI 3	S-291	16-Apr-21	---	6.98	---	5.01	unconfined	Static	
AOI 3	S-372	16-Apr-21	---	17.60	---	2.13	unconfined	Static	
AOI 3	S-382	20-Apr-21	16.80	17.26	0.46	3.39	unconfined	Pumping	
AOI 3	S-383	16-Apr-21	---	10.61	---	1.57	unconfined	Static	
AOI 3	S-384	15-Apr-21	---	15.21	---	1.31	unconfined	Static	
AOI 3	S-385	20-Apr-21	---	11.42	---	1.49	unconfined	Static	
AOI 3	S-386	28-Apr-21	---	12.41	---	1.34	unconfined	Static	
AOI 3	S-387	16-Apr-21	---	3.97	---	3.14	unconfined	Static	
AOI 3	S-407	15-Apr-21	---	12.43	---	1.58	unconfined	Static	
AOI 3	S-409	16-Apr-21	---	2.44	---	19.85	NYC	Static	
AOI 3	S-410	16-Apr-21	12.09	12.11	0.02	10.21	NYC	Static	
AOI 3	S-411	15-Apr-21	---	25.19	---	1.48	unconfined	Static	
AOI 3	S-412	16-Apr-21	---	11.76	---	1.35	unconfined	Static	
AOI 3	S-413	15-Apr-21	---	16.50	---	1.41	unconfined	Static	
AOI 3	S-414	16-Apr-21	21.13	22.26	1.13	1.09	unconfined	Static	
AOI 3	S-428	16-Apr-21	---	9.65	---	1.19	unconfined	Static	
AOI 3	S-429	16-Apr-21	19.64	20.32	0.68	1.38	unconfined	Static	
AOI 3	S-430	15-Apr-21	11.57	11.60	0.03	1.51	unconfined	Static	
AOI 3	S-431	15-Apr-21	15.89	16.30	0.41	1.52	unconfined	Static	
AOI 3	S-432	16-Apr-21	20.47	21.33	0.86	1.31	unconfined	Static	
AOI 3	S-433	16-Apr-21	---	10.57	---	1.11	unconfined	Static	
AOI 3	S-434	16-Apr-21	---	11.79	---	1.31	unconfined	Static	
AOI 3	S-435	16-Apr-21	---	13.87	---	1.28	unconfined	Static	
AOI 3	S-436	16-Apr-21	---	12.56	---	1.34	unconfined	Static	
AOI 3	S-437	16-Apr-21	19.30	20.75	1.45	1.17	unconfined	Static	
AOI 3	S-438	16-Apr-21	19.73	20.52	0.79	1.31	unconfined	Static	
AOI 3	S-439	16-Apr-21	22.34	23.54	1.20	-0.10	unconfined	Static	
AOI 3,7	C-95	16-Apr-21	---	5.61	---	6.64	unconfined	Static	
AOI 4	RW-700	16-Apr-21	---	15.83	---	2.18	unconfined	Static	
AOI 4	RW-701	16-Apr-21	---	15.99	---	2.28	unconfined	Static	
AOI 4	RW-702	16-Apr-21	---	18.79	---	2.17	unconfined	Static	
AOI 4	RW-703	16-Apr-21	---	18.02	---	2.60	unconfined	Static	
AOI 4	RW-704	16-Apr-21	18.09	18.09	<0.01	2.15	unconfined	Static	
AOI 4	RW-705	16-Apr-21	---	13.25	---	2.67	unconfined	Static	
AOI 4	RW-706	16-Apr-21	---	13.74	---	2.15	unconfined	Static	
AOI 4	RW-707	16-Apr-21	---	14.11	---	2.18	unconfined	Static	
AOI 4	RW-708	16-Apr-21	---	13.30	---	2.19	unconfined	Static	
AOI 4	RW-709	16-Apr-21	---	13.11	---	2.19	unconfined	Static	
AOI 4	RW-710	16-Apr-21	---	13.96	---	1.92	unconfined	Static	
AOI 4	RW-711	16-Apr-21	---	13.26	---	2.23	unconfined	Static	
AOI 4	RW-712	16-Apr-21	---	13.41	---	2.15	unconfined	Static	
AOI 4	RW-713	16-Apr-21	---	12.82	---	2.20	unconfined	Static	
AOI 4	RW-714	16-Apr-21	---	12.97	---	2.24	unconfined	Static	
AOI 4	RW-715	16-Apr-21	---	13.15	---	2.22	unconfined	Static	
AOI 4	RW-716	16-Apr-21	---	13.28	---	2.27	unconfined	Static	
AOI 4	RW-717	16-Apr-21	---	13.31	---	2.30	unconfined	Static	
AOI 4	S-26	16-Apr-21	---	18.51	---	2.25	unconfined	Static	
AOI 4	S-27	16-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 4	S-28	16-Apr-21	NM	NM	NM	NM	unconfined	Static	damaged - obstruction at 19.60 ft btoc
AOI 4	S-29	16-Apr-21	20.05	22.73	2.68	2.89	unconfined	Static	
AOI 4	S-30	16-Apr-21	21.01	21.45	0.44	2.06	unconfined	Static	
AOI 4	S-31	16-Apr-21	NM	NM	NM	NM	unconfined	Static	damaged - obstruction at 13.10 ft btoc
AOI 4	S-32	16-Apr-21	---	22.50	---	1.70	unconfined	Static	
AOI 4	S-34	15-Apr-21	---	17.55	---	3.34	unconfined	Static	
AOI 4	S-35	15-Apr-21	---	19.40	---	1.54	unconfined	Static	
AOI 4	S-36	15-Apr-21	22.61	22.61	<0.01	1.63	unconfined	Static	
AOI 4	S-38	16-Apr-21	---	16.74	---	2.21	unconfined	Static	
AOI 4	S-38D	16-Apr-21	---	17.17	---	0.53	lower aquifer	Static	

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AOI	Well ID	Date	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	Apparent LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft NAVD 88)	Well Classification	Static or Pumping	Comments
AOI 4	S-38D2	16-Apr-21	---	17.65	---	0.54	lower aquifer	Static	
AOI 4	S-39	16-Apr-21	---	20.70	---	2.18	unconfined	Static	
AOI 4	S-39D	16-Apr-21	---	25.65	---	-1.14	lower aquifer	Static	
AOI 4	S-40	29-Apr-21	---	23.06	---	1.40	unconfined	Static	
AOI 4	S-56	16-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 4	S-57	16-Apr-21	---	10.86	---	1.64	unconfined	Static	
AOI 4	S-58	16-Apr-21	NM	NM	NM	NM	NYC	Static	unable to locate
AOI 4	S-59D	15-Apr-21	---	15.42	---	1.71	lower aquifer	Static	
AOI 4	S-67	16-Apr-21	NM	NM	NM	NM	NYC	Static	unable to locate
AOI 4	S-96	28-Apr-21	16.29	16.30	0.01	3.48	unconfined	Static	
AOI 4	S-97	16-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 4	S-102	15-Apr-21	---	16.61	---	1.61	unconfined	Static	
AOI 4	S-103	15-Apr-21	---	24.13	---	1.98	unconfined	Static	
AOI 4	S-104	16-Apr-21	14.06	21.20	7.14	3.64	unconfined	Static	
AOI 4	S-119	16-Apr-21	---	25.15	---	1.45	unconfined	Static	
AOI 4	S-119D	16-Apr-21	---	23.79	---	1.31	lower aquifer	Static	
AOI 4	S-120	16-Apr-21	---	17.68	---	2.14	unconfined	Static	
AOI 4	S-121	16-Apr-21	---	19.10	---	2.02	unconfined	Static	
AOI 4	S-122	16-Apr-21	---	23.45	---	2.26	unconfined	Static	
AOI 4	S-123	16-Apr-21	---	19.96	---	2.17	unconfined	Static	
AOI 4	S-124	16-Apr-21	21.02	21.04	0.02	2.18	unconfined	Static	
AOI 4	S-216	16-Apr-21	---	13.98	---	1.78	unconfined	Static	
AOI 4	S-218	16-Apr-21	---	23.71	---	2.03	unconfined	Static	
AOI 4	S-218D	16-Apr-21	---	23.53	---	0.99	lower aquifer	Static	
AOI 4	S-219	16-Apr-21	---	20.89	---	2.20	unconfined	Static	
AOI 4	S-220	28-Apr-21	18.76	18.76	<0.01	2.06	unconfined	Static	
AOI 4	S-221	16-Apr-21	20.77	20.85	0.08	2.22	unconfined	Static	
AOI 4	S-222	16-Apr-21	---	13.83	---	2.46	unconfined	Static	
AOI 4	S-223	16-Apr-21	---	13.58	---	2.30	unconfined	Static	
AOI 4	S-224	16-Apr-21	---	13.74	---	2.29	unconfined	Static	
AOI 4	S-225	28-Apr-21	---	16.19	---		unconfined	Static	
AOI 4	S-233	16-Apr-21	---	18.95	---	5.40	unconfined	Static	
AOI 4	S-234	16-Apr-21	---	19.22	---	2.01	unconfined	Static	
AOI 4	S-235	16-Apr-21	---	20.96	---	2.17	unconfined	Static	
AOI 4	S-236	16-Apr-21	20.80	20.81	0.01	2.17	unconfined	Static	
AOI 4	S-237	16-Apr-21	20.65	20.73	0.08	2.16	unconfined	Static	
AOI 4	S-238	16-Apr-21	20.68	20.70	0.02	2.23	unconfined	Static	
AOI 4	S-239	16-Apr-21	---	13.53	---	2.29	unconfined	Static	
AOI 4	S-240	16-Apr-21	21.74	22.15	0.41	2.08	unconfined	Static	
AOI 4	S-241	16-Apr-21	23.76	25.98	2.22	2.08	unconfined	Static	
AOI 4	S-242	16-Apr-21	---	19.60	---	2.29	unconfined	Static	
AOI 4	S-243	16-Apr-21	---	13.30	---	2.44	unconfined	Static	
AOI 4	S-244	16-Apr-21	13.94	13.94	<0.01	8.01	unconfined	Static	
AOI 4	S-245	16-Apr-21	---	19.81	---	2.40	unconfined	Static	
AOI 4	S-246	16-Apr-21	---	18.78	---	2.78	unconfined	Static	
AOI 4	S-278	16-Apr-21	---	18.81	---	2.22	unconfined	Static	
AOI 4	S-279	16-Apr-21	24.21	24.21	<0.01	2.18	unconfined	Static	
AOI 4	S-282	15-Apr-21	19.31	19.68	0.37	1.41	unconfined	Static	
AOI 4	S-329	15-Apr-21	---	18.86	---	2.06	unconfined	Static	
AOI 4	S-364	15-Apr-21	---	2.82	---	18.44	unconfined	Static	
AOI 4	S-365	15-Apr-21	19.40	19.54	0.14	1.48	unconfined	Static	
AOI 4	S-366	15-Apr-21	---	20.66	---	1.60	unconfined	Static	
AOI 4	S-367	16-Apr-21	---	14.35	---	1.67	unconfined	Static	
AOI 4	S-368	16-Apr-21	16.07	16.16	0.09	1.94	unconfined	Static	
AOI 4	S-369	16-Apr-21	---	28.81	---	0.61	unconfined	Static	
AOI 4	S-370	16-Apr-21	---	10.45	---	1.61	unconfined	Static	
AOI 4	S-371	16-Apr-21	---	17.96	---	4.09	unconfined	Static	
AOI 4	S-373	16-Apr-21	19.26	19.27	0.01	1.51	unconfined	Static	
AOI 4	S-374	16-Apr-21	---	13.46	---	2.20	unconfined	Static	
AOI 4	S-375	16-Apr-21	---	13.78	---	2.18	unconfined	Static	
AOI 4	S-376	16-Apr-21	13.41	13.59	0.18	2.18	unconfined	Static	
AOI 4	S-377	16-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 4	S-378	16-Apr-21	---	9.77	---	2.22	unconfined	Static	
AOI 4	S-379	16-Apr-21	---	24.25	---	1.40	unconfined	Static	
AOI 4	S-380	16-Apr-21	---	19.30	---	2.02	unconfined	Static	
AOI 4	S-381	16-Apr-21	---	23.94	---	1.92	unconfined	Static	
AOI 4	S-408	16-Apr-21	---	13.48	---	2.40	unconfined	Static	

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AOI	Well ID	Date	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	Apparent LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft NAVD 88)	Well Classification	Static or Pumping	Comments
AOI 4	S-415	16-Apr-21	---	17.92	---	1.31	unconfined	Static	
AOI 4	S-416	16-Apr-21	---	9.56	---	9.62	unconfined	Static	
AOI 4	S-440	16-Apr-21	---	9.96	---	2.38	unconfined	Static	
AOI 4	S-441	16-Apr-21	---	13.77	---	2.23	unconfined	Static	
AOI 4	S-442	16-Apr-21	---	13.29	---	2.22	unconfined	Static	
AOI 4	S-443	16-Apr-21	---	14.01	---	2.19	unconfined	Static	
AOI 4	S-444	16-Apr-21	---	13.71	---	2.21	unconfined	Static	
AOI 4	S-445	16-Apr-21	---	14.54	---	2.20	unconfined	Static	
AOI 4	S-446	16-Apr-21	---	17.33	---	2.21	unconfined	Static	
AOI 4	S-447	16-Apr-21	---	16.48	---	2.20	unconfined	Static	
AOI 4	S-448	16-Apr-21	---	12.93	---	2.41	unconfined	Static	
AOI 4	S-449	16-Apr-21	---	15.10	---	0.15	lower aquifer	Static	
AOI 5	A-1	21-Apr-21	---	4.77	---	2.08	unconfined	Static	
AOI 5	A-3	21-Apr-21	---	5.61	---	2.63	unconfined	Static	
AOI 5	A-4	21-Apr-21	---	4.06	---	1.98	unconfined	Static	
AOI 5	A-5	21-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 5	A-6	21-Apr-21	---	3.28	---	3.46	unconfined	Static	
AOI 5	A-7	27-Apr-21	4.24	4.57	0.33	2.44	unconfined	Static	
AOI 5	A-9	27-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 5	A-10	21-Apr-21	---	3.43	---	4.85	unconfined	Static	
AOI 5	A-11	21-Apr-21	---	5.08	---	2.69	unconfined	Static	
AOI 5	A-12	21-Apr-21	---	5.21	---	2.36	unconfined	Static	
AOI 5	A-15	21-Apr-21	---	0.62	---	4.49	unconfined	Static	damaged
AOI 5	A-19D	27-Apr-21	---	12.16	---	-1.52	lower aquifer	Static	
AOI 5	A-21	27-Apr-21	2.28	2.33	0.05	5.88	unconfined	Static	
AOI 5	A-21D	27-Apr-21	---	15.46	---	-4.21	lower aquifer	Static	
AOI 5	A-22	26-Apr-21	6.18	6.19	0.01	1.77	unconfined	Static	
AOI 5	A-23	21-Apr-21	---	3.66	---	2.65	unconfined	Static	
AOI 5	A-24	26-Apr-21	---	2.71	---	2.82	unconfined	Static	
AOI 5	A-25	28-Apr-21	---	4.80	---	4.00	unconfined	Static	damaged
AOI 5	A-26	27-Apr-21	---	4.98	---	3.67	unconfined	Static	
AOI 5	A-27	21-Apr-21	---	5.79	---	4.22	unconfined	Static	
AOI 5	A-39	21-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 5	A-40	21-Apr-21	---	3.96	---	1.76	unconfined	Static	
AOI 5	A-41	21-Apr-21	---	3.88	---	1.75	unconfined	Static	
AOI 5	A-44	21-Apr-21	---	7.42	---	2.59	unconfined	Static	
AOI 5	A-45	27-Apr-21	---	3.45	---	0.97	unconfined	Static	
AOI 5	A-46	27-Apr-21	---	8.47	---	2.35	unconfined	Static	
AOI 5	A-47	21-Apr-21	---	2.63	---	2.27	unconfined	Static	
AOI 5	A-48	27-Apr-21	---	5.42	---	1.03	unconfined	Static	
AOI 5	A-49	21-Apr-21	---	3.23	---	3.97	unconfined	Static	damaged
AOI 5	A-118	27-Apr-21	---	2.58	---	5.72	unconfined	Static	
AOI 5	A-122	21-Apr-21	---	4.89	---	2.55	unconfined	Static	
AOI 5	A-133	26-Apr-21	---	9.09	---	3.93	unconfined	Static	
AOI 5	A-134	26-Apr-21	---	7.65	---	1.49	unconfined	Static	
AOI 5	A-135	26-Apr-21	---	7.59	---	3.17	unconfined	Static	
AOI 5	A-136	26-Apr-21	7.18	7.31	0.13	1.52	unconfined	Static	
AOI 5	A-137	21-Apr-21	---	4.05	---	1.75	unconfined	Static	
AOI 5	A-139	21-Apr-21	---	3.91	---	3.08	unconfined	Static	
AOI 5	A-140	21-Apr-21	---	3.46	---	6.43	unconfined	Static	
AOI 5	A-142	21-Apr-21	---	2.56	---	2.84	unconfined	Static	
AOI 5	A-143	21-Apr-21	---	6.85	---	2.65	unconfined	Static	
AOI 5	A-146	21-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 5	A-147	21-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 5	A-148	21-Apr-21	---	2.60	---	5.41	unconfined	Static	
AOI 5	A-149	21-Apr-21	---	3.57	---	4.92	unconfined	Static	
AOI 5	A-150	21-Apr-21	NM	NM	NM	NM	unconfined	Static	damaged - obstruction at 3.56 ft bgs
AOI 5	A-151	21-Apr-21	---	4.34	---	3.15	unconfined	Static	
AOI 5	A-152	21-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 5	A-153	21-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 5	A-154	21-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 5	A-155	21-Apr-21	---	5.07	---	3.32	unconfined	Static	
AOI 5	A-156	21-Apr-21	---	4.44	---	4.44	unconfined	Static	
AOI 5	A-157	27-Apr-21	---	3.42	---	5.20	unconfined	Static	
AOI 5	A-158	21-Apr-21	---	5.07	---	1.07	unconfined	Static	
AOI 5	A-162	27-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 5	A-163	21-Apr-21	---	5.94	---	4.55	unconfined	Static	

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Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

AOI	Well ID	Date	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	Apparent LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft NAVD 88)	Well Classification	Static or Pumping	Comments
AOI 5	A-164	21-Apr-21	---	4.56	---	4.35	unconfined	Static	
AOI 5	A-166	26-Apr-21	---	8.06	---	3.22	unconfined	Static	
AOI 5	A-167	27-Apr-21	---	5.27	---	4.19	unconfined	Static	
AOI 5	A-168	21-Apr-21	---	6.57	---	4.12	unconfined	Static	
AOI 5	A-169	21-Apr-21	---	4.26	---	4.36	unconfined	Static	
AOI 5	A-170	21-Apr-21	---	2.49	---	2.14	unconfined	Static	
AOI 5	A-171	26-Apr-21	---	5.70	---	1.94	unconfined	Static	
AOI 5	A-172	21-Apr-21	---	4.60	---	1.72	unconfined	Static	
AOI 5	A-173	28-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to access
AOI 5	A-174	26-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to access
AOI 5	A-175	28-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to access
AOI 5	A-176	27-Apr-21	---	3.63	---	0.86	unconfined	Static	
AOI 5	A-177	27-Apr-21	2.96	3.42	0.46	1.26	NYC	Static	
AOI 5	A-178	28-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to access
AOI 5	A-179	21-Apr-21	3.62	4.72	1.10	4.75	unconfined	Static	
AOI 5	A-180	21-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 5	A-181	28-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to access
AOI 5	A-182	21-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 5	A-183	21-Apr-21	3.74	4.35	0.61	4.57	unconfined	Static	
AOI 5	A-184	21-Apr-21	5.01	5.01	<0.01	4.60	unconfined	Static	damaged
AOI 5	A-186	26-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to access
AOI 5	A-187	21-Apr-21	---	5.56	---	3.84	unconfined	Static	
AOI 5	A-188	28-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to access
AOI 5	A-189	27-Apr-21	---	4.89	---	3.62	unconfined	Static	
AOI 5	PZ-1	21-Apr-21	NM	NM	NM	NM	NYC	Static	unable to locate
AOI 5	PZ-2	27-Apr-21	---	5.67	---	5.21	unconfined	Static	
AOI 5	PZ-3	27-Apr-21	---	7.76	---	2.77	unconfined	Static	
AOI 5	RW-6S	27-Apr-21	---	5.30	---	2.92	unconfined	Static	
AOI 5	RWBH-1	21-Apr-21	2.76	2.91	0.15	2.56	unconfined	Static	
AOI 5	RWBH-2	21-Apr-21	1.62	3.71	2.09	2.30	unconfined	Static	
AOI 5	SW-1	27-Apr-21	8.09	9.46	1.37	1.55	unconfined	Static	
AOI 5	SW-2	27-Apr-21	---	7.64	---	2.30	unconfined	Static	
AOI 5	SW-3	27-Apr-21	---	8.04	---	1.93	unconfined	Static	
AOI 5	SW-4	27-Apr-21	4.76	4.79	0.03	2.39	unconfined	Static	
AOI 5	SW-5	27-Apr-21	5.55	5.57	0.02	4.94	unconfined	Static	
AOI 5	SWR-1	27-Apr-21	---	5.35	---	2.93	unconfined	Static	
AOI 5	SWR-2	27-Apr-21	---	8.12	---	1.94	unconfined	Static	
AOI 5	SWR-3	27-Apr-21	---	8.16	---	2.45	unconfined	Static	
AOI 5	WP-8	21-Apr-21	---	5.63	---	1.36	unconfined	Static	
AOI 5	WP-9	27-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 5	WP9-8	21-Apr-21	4.11	4.98	0.87	4.68	unconfined	Static	
AOI 5	WP-14	21-Apr-21	---	7.24	---	1.88	unconfined	Static	
AOI 5	WP16-3	27-Apr-21	---	7.80	---	3.27	unconfined	Static	
AOI 5	WP-A	27-Apr-21	---	3.87	---	5.73	unconfined	Static	
AOI 5	WP-B	27-Apr-21	7.13	7.15	0.02	2.95	unconfined	Static	
AOI 5	WP-C	27-Apr-21	---	4.77	---	1.76	unconfined	Static	
AOI 5	WP-D	27-Apr-21	---	5.57	---	2.69	unconfined	Static	
AOI 5	WP-E	27-Apr-21	---	4.88	---	2.47	unconfined	Static	
AOI 6	B-39	05-May-21	2.03	2.07	0.04	3.40	unconfined	Static	
AOI 6	B-43	20-Apr-21	---	2.81	---	4.40	unconfined	Static	
AOI 6	B-45	20-Apr-21	---	0.01	---	5.09	unconfined	Static	
AOI 6	B-46	20-Apr-21	---	1.36	---	6.67	unconfined	Static	
AOI 6	B-47	20-Apr-21	2.30	2.61	0.31	5.99	unconfined	Static	
AOI 6	B-48	28-Apr-21	---	10.91	---	-4.41	unconfined	Static	
AOI 6	B-48D	21-Apr-21	---	10.35	---	-0.93	lower aquifer	Static	
AOI 6	B-92	20-Apr-21	---	5.60	---	4.63	unconfined	Static	
AOI 6	B-94	27-Apr-21	---	7.33	---	3.02	unconfined	Static	
AOI 6	B-95	20-Apr-21	---	4.25	---	4.62	unconfined	Static	
AOI 6	B-115	21-Apr-21	---	2.73	---	4.77	unconfined	Static	
AOI 6	B-116	21-Apr-21	---	5.41	---	2.88	unconfined	Static	
AOI 6	B-117	21-Apr-21	---	5.42	---	4.23	unconfined	Static	
AOI 6	B-123	20-Apr-21	---	4.20	---	6.56	unconfined	Static	
AOI 6	B-124	20-Apr-21	4.46	6.10	1.64	4.20	unconfined	Static	
AOI 6	B-125	20-Apr-21	---	4.58	---	3.93	unconfined	Static	
AOI 6	B-126	20-Apr-21	---	5.15	---	3.36	unconfined	Static	
AOI 6	B-129	21-Apr-21	5.75	6.20	0.45	2.21	unconfined	Static	
AOI 6	B-130	20-Apr-21	5.10	5.11	0.01	4.59	unconfined	Static	

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AOI	Well ID	Date	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	Apparent LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft NAVD 88)	Well Classification	Static or Pumping	Comments
AOI 6	B-131	20-Apr-21	---	5.10	---	3.62	unconfined	Static	
AOI 6	B-132	20-Apr-21	5.40	5.65	0.25	1.44	unconfined	Static	
AOI 6	B-132D	27-Apr-21	---	15.12	---	-4.81	lower aquifer	Static	
AOI 6	B-133	28-Apr-21	---	5.04	---	2.29	unconfined	Static	
AOI 6	B-133D	20-Apr-21	---	9.65	---	-1.05	lower aquifer	Static	
AOI 6	B-134	28-Apr-21	---	4.94	---	1.58	unconfined	Static	
AOI 6	B-134D	20-Apr-21	---	10.76	---	-2.64	lower aquifer	Static	
AOI 6	B-135	20-Apr-21	5.15	5.25	0.10	1.22	unconfined	Static	
AOI 6	B-136	28-Apr-21	---	4.21	---	4.94	unconfined	Static	
AOI 6	B-137	20-Apr-21	4.34	4.45	0.11	4.38	unconfined	Static	
AOI 6	B-138	28-Apr-21	4.28	4.66	0.38	5.00	unconfined	Static	
AOI 6	B-139	21-Apr-21	NM	NM	NM	NM	NYC	Static	unable to locate
AOI 6	B-141	27-Apr-21	NM	NM	NM	NM	NYC	Static	unable to locate
AOI 6	B-142	28-Apr-21	7.04	7.08	0.04	2.69	unconfined	Static	
AOI 6	B-143	20-Apr-21	4.93	5.31	0.38	4.00	unconfined	Static	
AOI 6	B-144	20-Apr-21	4.90	5.00	0.10	4.11	unconfined	Static	
AOI 6	B-145	20-Apr-21	---	4.46	---	5.35	unconfined	Static	
AOI 6	B-146	21-Apr-21	NM	NM	NM	NM	NYC	Static	unable to locate
AOI 6	B-147	20-Apr-21	4.99	5.16	0.17	3.89	unconfined	Static	
AOI 6	B-148	20-Apr-21	5.67	5.94	0.27	1.52	unconfined	Static	
AOI 6	B-149	20-Apr-21	3.18	3.31	0.13	4.55	unconfined	Static	
AOI 6	B-150	20-Apr-21	3.17	4.95	1.78	4.42	unconfined	Static	
AOI 6	B-151	28-Apr-21	---	3.57	---	4.17	unconfined	Static	
AOI 6	B-152	20-Apr-21	---	3.51	---	1.53	unconfined	Static	
AOI 6	B-153	20-Apr-21	---	2.25	---	4.12	unconfined	Static	
AOI 6	B-154	20-Apr-21	---	1.96	---	6.72	NYC	Static	
AOI 6	B-155	20-Apr-21	---	5.61	---	2.93	unconfined	Static	
AOI 6	B-156	20-Apr-21	5.94	5.97	0.03	2.91	unconfined	Static	
AOI 6	B-157	28-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 6	B-158	20-Apr-21	---	1.60	---	6.61	unconfined	Static	
AOI 6	B-160	20-Apr-21	---	3.63	---	4.90	unconfined	Static	
AOI 6	B-161	20-Apr-21	4.48	4.60	0.12	3.80	unconfined	Static	
AOI 6	B-162	27-Apr-21	---	2.47	---	5.12	NYC	Static	
AOI 6	B-163	20-Apr-21	---	2.80	---	4.65	unconfined	Static	
AOI 6	B-164	20-Apr-21	---	5.69	---	3.13	unconfined	Static	
AOI 6	B-165	20-Apr-21	---	2.51	---	3.28	unconfined	Static	
AOI 6	B-166	27-Apr-21	---	3.10	---	4.37	NYC	Static	
AOI 6	B-167	27-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to access
AOI 6	B-168	20-Apr-21	---	1.83	---	4.63	unconfined	Static	
AOI 6	B-169	20-Apr-21	---	1.26	---	4.86	unconfined	Static	
AOI 6	B-170	20-Apr-21	---	1.10	---	5.38	NYC	Static	
AOI 6	B-171	28-Apr-21	NM	NM	NM	NM	NYC	Static	unable to locate
AOI 6	B-172	20-Apr-21	---	4.78	---	3.23	unconfined	Static	
AOI 6	B-173	20-Apr-21	---	4.43	---	3.75	unconfined	Static	
AOI 6	B-174	20-Apr-21	---	3.28	---	5.02	unconfined	Static	
AOI 6	B-175	20-Apr-21	3.70	7.65	3.95	4.30	unconfined	Static	
AOI 6	B-176	20-Apr-21	---	13.35	---	-5.64	lower aquifer	Static	
AOI 6	B-177	20-Apr-21	---	5.64	---	4.19	NYC	Static	
AOI 6	B-178	20-Apr-21	---	5.24	---	4.46	NYC	Static	
AOI 6	B-179	20-Apr-21	---	5.40	---	4.06	NYC	Static	
AOI 6	PZ-132A	28-Apr-21	---	16.17	---	-6.02	unconfined	Static	
AOI 6	PZ-135A	26-Apr-21	---	15.21	---	-5.03	NYC	Static	damaged
AOI 6	PZ-135B	21-Apr-21	NM	NM	NM	NM	NYC	Static	damaged
AOI 6	RW-9	20-Apr-21	4.55	4.56	0.01	4.21	unconfined	Static	
AOI 6	SUMP-1	20-Apr-21	5.08	5.20	0.12	5.60	NYC	Static	
AOI 6	U-1	20-Apr-21	NM	NM	NM	NM	NYC	Static	unable to locate
AOI 6	U-2	20-Apr-21	---	6.78	---	2.61	unconfined	Static	
AOI 6	U-3	20-Apr-21	5.59	5.90	0.31	4.15	unconfined	Static	
AOI 6	U-4	20-Apr-21	---	4.40	---	4.82	unconfined	Static	damaged
AOI 6	U-5	20-Apr-21	---	9.09	---	0.70	unconfined	Static	
AOI 6	URS-1	20-Apr-21	---	5.75	---	4.27	unconfined	Static	
AOI 6	URS-2	20-Apr-21	---	3.59	---	4.30	NYC	Static	
AOI 6	URS-3	20-Apr-21	---	3.68	---	3.92	unconfined	Static	
AOI 6	URS-4	20-Apr-21	---	5.90	---	4.04	unconfined	Static	
AOI 6	URS-5	20-Apr-21	---	5.03	---	2.91	unconfined	Static	
AOI 6	WP9-3	20-Apr-21	NM	NM	NM	NM	NYC	Static	damaged - obstruction in well
AOI 6	WP9-4	20-Apr-21	---	4.77	---	4.27	unconfined	Static	

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AOI	Well ID	Date	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	Apparent LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft NAVD 88)	Well Classification	Static or Pumping	Comments
AOI 6	WPM-2	27-Apr-21	3.92	3.92	<0.01	3.56	NYC	Static	
AOI 6	WPM-3	27-Apr-21	---	3.18	---	4.85	NYC	Static	
AOI 6	WPM-11	21-Apr-21	---	1.03	---	5.48	NYC	Static	
AOI 6,7	C-134D	20-Apr-21	---	10.07	---	-0.67	lower aquifer	Static	
AOI 7	C-49	16-Apr-21	---	5.06	---	4.52	unconfined	Static	
AOI 7	C-50	16-Apr-21	---	7.26	---	5.51	unconfined	Static	
AOI 7	C-51	16-Apr-21	---	4.56	---	4.70	unconfined	Static	
AOI 7	C-52	20-Apr-21	---	5.63	---	2.00	unconfined	Static	
AOI 7	C-53A	20-Apr-21	---	4.79	---	4.68	unconfined	Static	
AOI 7	C-54	20-Apr-21	---	1.15	---	5.46	unconfined	Static	
AOI 7	C-55	16-Apr-21	---	4.54	---	4.87	unconfined	Static	
AOI 7	C-56	20-Apr-21	---	2.36	---	8.36	unconfined	Static	unable to access
AOI 7	C-57	16-Apr-21	---	2.64	---	5.86	unconfined	Static	
AOI 7	C-58	16-Apr-21	---	1.81	---	5.61	unconfined	Static	
AOI 7	C-60	16-Apr-21	---	2.83	---	4.61	unconfined	Static	
AOI 7	C-61	16-Apr-21	---	3.03	---	4.90	unconfined	Static	
AOI 7	C-62	21-Apr-21	---	5.33	---	6.07	unconfined	Static	
AOI 7	C-63	16-Apr-21	---	6.10	---	1.31	unconfined	Static	
AOI 7	C-64	20-Apr-21	---	8.40	---	-0.26	unconfined	Static	
AOI 7	C-65	21-Apr-21	6.99	7.34	0.35	3.82	unconfined	Static	
AOI 7	C-96	16-Apr-21	---	6.20	---	6.68	unconfined	Static	
AOI 7	C-97	20-Apr-21	NM	NM	NM	NM	unconfined	Static	dry at 17.89 feet btoc
AOI 7	C-98	16-Apr-21	---	5.75	---	4.80	unconfined	Static	
AOI 7	C-104	16-Apr-21	---	6.75	---	2.78	unconfined	Static	
AOI 7	C-105	16-Apr-21	---	4.39	---	4.78	unconfined	Static	
AOI 7	C-106	16-Apr-21	NM	NM	NM	NM	unconfined	Static	LNAPL too viscous to measure DTW
AOI 7	C-108	20-Apr-21	---	4.46	---	3.81	unconfined	Static	
AOI 7	C-109	16-Apr-21	---	4.04	---	5.96	unconfined	Static	
AOI 7	C-110	16-Apr-21	---	5.83	---	6.75	unconfined	Static	
AOI 7	C-111	16-Apr-21	---	5.31	---	6.86	unconfined	Static	
AOI 7	C-112	21-Apr-21	---	2.90	---	8.06	NYC	Static	unable to access
AOI 7	C-113	16-Apr-21	---	4.80	---	6.85	unconfined	Static	
AOI 7	C-114	21-Apr-21	---	4.04	---	6.92	unconfined	Static	
AOI 7	C-127	20-Apr-21	---	8.52	---	1.28	unconfined	Static	
AOI 7	C-129	20-Apr-21	---	4.39	---	4.55	unconfined	Static	
AOI 7	C-129D	20-Apr-21	---	8.33	---	0.86	lower aquifer	Static	
AOI 7	C-130	16-Apr-21	---	5.63	---	6.35	unconfined	Static	
AOI 7	C-131	16-Apr-21	---	3.65	---	6.49	unconfined	Static	
AOI 7	C-132	16-Apr-21	NM	NM	NM	NM	NYC	Static	damaged - obstruction at 9.50 feet
AOI 7	C-133	16-Apr-21	---	1.32	---	6.41	unconfined	Static	
AOI 7	C-136	20-Apr-21	---	4.60	---	4.25	unconfined	Static	
AOI 7	C-137	21-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to access
AOI 7	C-138	16-Apr-21	---	4.41	---	2.54	unconfined	Static	
AOI 7	C-139	16-Apr-21	---	2.81	---	4.51	unconfined	Static	
AOI 7	C-140	16-Apr-21	---	1.58	---	5.97	unconfined	Static	
AOI 7	C-142	20-Apr-21	---	8.97	---	2.38	unconfined	Static	
AOI 7	C-143	20-Apr-21	NM	NM	NM	NM	NYC	Static	damaged - obstruction at 10.80 ft btoc
AOI 7	C-144D	20-Apr-21	---	12.67	---	-3.71	lower aquifer	Static	
AOI 7	C-145	20-Apr-21	---	5.54	---	1.38	unconfined	Static	
AOI 7	C-146	20-Apr-21	---	11.47	---	-4.73	unconfined	Static	
AOI 7	C-147	20-Apr-21	---	10.70	---	-3.83	unconfined	Static	
AOI 7	C-150	20-Apr-21	15.51	15.63	0.12	-7.34	unconfined	Static	
AOI 7	C-151	20-Apr-21	---	13.93	---	-6.02	NYC	Static	
AOI 7	C-152	27-Apr-21	10.54	10.74	0.20	-1.19	unconfined	Static	
AOI 7	C-153	20-Apr-21	---	15.65	---	-7.38	unconfined	Static	
AOI 7	C-154	20-Apr-21	---	11.90	---	-4.01	unconfined	Static	
AOI 7	C-155	20-Apr-21	---	5.87	---	3.30	unconfined	Static	
AOI 7	C-156	20-Apr-21	---	3.75	---	2.97	unconfined	Static	
AOI 7	C-157	20-Apr-21	---	3.57	---	3.01	unconfined	Static	
AOI 7	C-158	20-Apr-21	NM	NM	NM	NM	NYC	Static	damaged
AOI 7	C-159	20-Apr-21	---	3.67	---	3.12	unconfined	Static	
AOI 7	C-160	20-Apr-21	NM	NM	NM	NM	NYC	Static	dry at 10.50 ft btoc
AOI 7	C-161	20-Apr-21	10.15	11.17	1.02	-1.21	unconfined	Static	
AOI 7	C-162	20-Apr-21	10.13	10.15	0.02	-1.63	unconfined	Static	
AOI 7	C-163	21-Apr-21	---	4.03	---	2.85	unconfined	Static	
AOI 7	C-164	21-Apr-21	---	3.97	---	2.86	unconfined	Static	
AOI 7	C-165	20-Apr-21	---	5.55	---	2.91	unconfined	Static	

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AOI	Well ID	Date	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	Apparent LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft NAVD 88)	Well Classification	Static or Pumping	Comments
AOI 7	C-166	21-Apr-21	---	6.42	---	0.57	NYC	Static	
AOI 7	C-167	21-Apr-21	NM	NM	NM	NM	NYC	Static	unable to locate
AOI 7	C-168	21-Apr-21	---	6.49	---	0.92	unconfined	Static	
AOI 7	C-169	20-Apr-21	5.67	8.67	3.00	0.92	unconfined	Static	
AOI 7	C-170	21-Apr-21	---	1.77	---	9.72	unconfined	Static	
AOI 7	C-171	16-Apr-21	---	4.12	---	6.24	unconfined	Static	
AOI 7	C-172	16-Apr-21	---	2.40	---	3.51	unconfined	Static	
AOI 7	C-174	16-Apr-21	---	10.80	---	0.69	unconfined	Static	
AOI 7	RW-801	20-Apr-21	---	16.25	---	-9.98	NYC	Pumping	
AOI 7	RW-802	20-Apr-21	---	13.57	---	-7.87	NYC	Pumping	
AOI 7	RW-803	20-Apr-21	---	19.55	---	-13.77	NYC	Pumping	
AOI 7	RW-804	20-Apr-21	19.16	19.19	0.03	-13.38	NYC	Pumping	
AOI 7	RW-805	27-Apr-21	15.83	15.84	0.01	-10.08	NYC	Pumping	
AOI 7	RW-806	20-Apr-21	---	20.50	---	-15.09	NYC	Pumping	
AOI 7	RW-807	20-Apr-21	19.50	19.52	0.02	-12.66	NYC	Pumping	
AOI 7	RW-808	21-Apr-21	---	18.22	---	-12.14	NYC	Pumping	
AOI 7	RW-809	27-Apr-21	9.38	9.39	0.01	-2.83	NYC	Pumping	
AOI 7	RW-810	21-Apr-21	---	7.67	---	-1.23	NYC	Pumping	
AOI 7	WP14-2	21-Apr-21	---	8.77	---	-0.86	unconfined	Static	
AOI 8	N-3	12-Apr-21	---	17.01	---	9.65	NYC	Static	
AOI 8	N-4	14-Apr-21	---	17.08	---	9.28	lower aquifer	Static	
AOI 8	N-6	13-Apr-21	NM	NM	NM	NM	perched	Static	destroyed
AOI 8	N-8	12-Apr-21	---	25.44	---	12.17	unconfined	Static	
AOI 8	N-9	12-Apr-21	---	31.56	---	4.34	lower aquifer	Static	
AOI 8	N-11	13-Apr-21	---	18.11	---	11.63	unconfined	Static	
AOI 8	N-12	13-Apr-21	---	15.50	---	11.49	unconfined	Static	
AOI 8	N-13	13-Apr-21	NM	NM	NM	NM	lower aquifer	Static	unable to locate
AOI 8	N-14	27-Apr-21	20.35	20.36	0.01	11.64	unconfined	Static	
AOI 8	N-18	13-Apr-21	---	21.16	---	11.74	unconfined	Static	
AOI 8	N-19	13-Apr-21	---	28.73	---	4.05	lower aquifer	Static	
AOI 8	N-20	27-Apr-21	---	17.13	---	11.26	unconfined	Static	
AOI 8	N-21	12-Apr-21	---	22.17	---	5.84	lower aquifer	Static	
AOI 8	N-23	13-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 8	N-25	14-Apr-21	NM	NM	NM	NM	perched	Static	unable to locate
AOI 8	N-27	13-Apr-21	---	19.21	---	3.51	lower aquifer	Static	
AOI 8	N-29	13-Apr-21	---	25.12	---	11.32	unconfined	Static	
AOI 8	N-30	13-Apr-21	---	32.22	---	4.08	lower aquifer	Static	
AOI 8	N-31	13-Apr-21	NM	NM	NM	NM	unconfined	Static	destroyed
AOI 8	N-32	13-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 8	N-33	14-Apr-21	NM	NM	NM	NM	lower aquifer	Static	unable to locate
AOI 8	N-34	14-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 8	N-35	14-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 8	N-36	13-Apr-21	NM	NM	NM	NM	unconfined	Static	destroyed
AOI 8	N-37	13-Apr-21	---	11.80	---	6.42	lower aquifer	Static	
AOI 8	N-38D	13-Apr-21	---	10.00	---	0.43	lower aquifer	Static	
AOI 8	N-39	14-Apr-21	NM	NM	NM	NM	unconfined	Static	damaged
AOI 8	N-40	14-Apr-21	NM	NM	NM	NM	unconfined	Static	destroyed
AOI 8	N-42	13-Apr-21	---	6.46	---	8.44	unconfined	Static	
AOI 8	N-43	13-Apr-21	NM	NM	NM	NM	lower aquifer	Static	unable to locate
AOI 8	N-45	14-Apr-21	NM	NM	NM	NM	unconfined	Static	destroyed
AOI 8	N-47	13-Apr-21	19.18	19.29	0.11	12.73	unconfined	Static	
AOI 8	N-48	13-Apr-21	20.53	21.75	1.22	10.60	unconfined	Static	
AOI 8	N-49	13-Apr-21	24.34	25.95	1.61	9.20	unconfined	Static	
AOI 8	N-50D	13-Apr-21	---	25.16	---	7.99	lower aquifer	Static	
AOI 8	N-51	12-May-21	22.61	24.45	1.84	9.06	unconfined	Static	
AOI 8	N-52	13-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 8	N-54	13-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 8	N-55	27-Apr-21	---	4.09	---	6.19	unconfined	Static	
AOI 8	N-56	13-Apr-21	---	3.62	---	9.75	unconfined	Static	
AOI 8	N-57	13-Apr-21	---	4.00	---	6.91	unconfined	Static	
AOI 8	N-58	27-Apr-21	---	3.36	---	5.87	unconfined	Static	
AOI 8	N-59	13-Apr-21	NM	NM	NM	NM	unconfined	Static	
AOI 8	N-60	13-Apr-21	NM	NM	NM	NM	unconfined	Static	destroyed
AOI 8	N-61	13-Apr-21	---	2.87	---	6.04	unconfined	Static	
AOI 8	N-65	13-Apr-21	NM	NM	NM	NM	unconfined	Static	destroyed
AOI 8	N-66	14-Apr-21	NM	NM	NM	NM	unconfined	Static	damaged
AOI 8	N-68	14-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate

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AOI	Well ID	Date	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	Apparent LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft NAVD 88)	Well Classification	Static or Pumping	Comments
AOI 8	N-69	13-Apr-21	---	13.86	---	9.34	lower aquifer	Static	
AOI 8	N-70	13-Apr-21	---	13.81	---	8.36	lower aquifer	Static	
AOI 8	N-72	13-Apr-21	---	8.50	---	4.17	unconfined	Static	
AOI 8	N-73	13-Apr-21	---	7.47	---	1.43	lower aquifer	Static	
AOI 8	N-74	13-Apr-21	5.10	5.11	0.01	3.06	unconfined	Static	
AOI 8	N-75	13-Apr-21	---	6.58	---	1.27	lower aquifer	Static	
AOI 8	N-78	13-Apr-21	NM	NM	NM	NM	unconfined	Static	destroyed
AOI 8	N-79	14-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 8	N-81	13-Apr-21	17.53	17.55	0.02	11.73	unconfined	Static	
AOI 8	N-82	13-Apr-21	21.52	21.53	0.01	11.97	unconfined	Static	
AOI 8	N-83	13-Apr-21	---	14.61	---	6.84	lower aquifer	Static	
AOI 8	N-84	13-Apr-21	---	14.20	---	11.68	unconfined	Static	
AOI 8	N-85	13-Apr-21	---	13.54	---	11.75	unconfined	Static	
AOI 8	N-86	13-Apr-21	---	14.75	---	11.09	unconfined	Static	
AOI 8	N-90	13-Apr-21	NM	NM	NM	NM	unconfined	Static	destroyed
AOI 8	N-91	14-Apr-21	NM	NM	NM	NM	perched	Static	unable to locate
AOI 8	N-93	27-Apr-21	---	14.75	---	10.34	unconfined	Static	
AOI 8	N-94	13-Apr-21	---	5.55	---	14.81	lower aquifer	Static	
AOI 8	N-97	13-Apr-21	---	13.46	---	9.50	unconfined	Static	
AOI 8	N-98	12-Apr-21	---	22.94	---	11.59	unconfined	Static	
AOI 8	N-100	27-Apr-21	---	17.15	---	9.86	unconfined	Static	
AOI 8	N-102	12-Apr-21	21.63	21.65	0.02	11.58	unconfined	Static	
AOI 8	N-103	12-Apr-21	16.77	16.78	0.01	11.35	unconfined	Static	
AOI 8	N-104	12-Apr-21	---	16.20	---	11.44	unconfined	Static	
AOI 8	N-107	12-Apr-21	14.75	14.80	0.05	11.62	unconfined	Static	
AOI 8	N-108	14-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 8	N-109	13-Apr-21	---	11.13	---	7.29	lower aquifer	Static	
AOI 8	N-112	13-Apr-21	8.73	9.50	0.77	6.93	lower aquifer	Static	
AOI 8	N-113	13-Apr-21	6.67	9.87	3.20	7.21	unconfined	Static	
AOI 8	N-114	13-Apr-21	---	6.31	---	8.06	lower aquifer	Static	
AOI 8	N-115	13-Apr-21	6.95	6.98	0.03	8.38	unconfined	Static	
AOI 8	N-116	13-Apr-21	3.45	6.92	3.47	7.47	unconfined	Static	
AOI 8	N-120	14-Apr-21	NM	NM	NM	NM	unconfined	Static	destroyed
AOI 8	N-126	14-Apr-21	NM	NM	NM	NM	unconfined	Static	destroyed
AOI 8	N-127	13-Apr-21	23.95	25.75	1.80	9.28	unconfined	Static	
AOI 8	N-129	13-Apr-21	18.56	19.36	0.80	10.26	unconfined	Static	
AOI 8	N-130	13-Apr-21	20.00	20.67	0.67	11.45	unconfined	Static	
AOI 8	N-131	13-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 8	N-133	13-Apr-21	---	2.66	---	6.70	unconfined	Static	
AOI 8	N-135	13-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 8	N-137	12-Apr-21	16.40	16.49	0.09	9.18	unconfined	Static	
AOI 8	N-138	12-Apr-21	26.09	26.25	0.16	9.17	unconfined	Static	
AOI 8	N-139	12-Apr-21	25.83	26.00	0.17	9.13	unconfined	Static	
AOI 8	N-140	12-Apr-21	---	16.41	---	10.33	unconfined	Static	
AOI 8	N-141	27-Apr-21	---	1.78	---	22.61	unconfined	Static	
AOI 8	N-142	12-Apr-21	---	25.49	---	9.07	unconfined	Static	
AOI 8	N-143	27-Apr-21	---	2.23	---	30.79	unconfined	Static	
AOI 8	N-144	12-Apr-21	---	25.01	---	9.27	unconfined	Static	
AOI 8	N-145	12-Apr-21	NM	NM	NM	NM	unconfined	Static	
AOI 8	N-146	27-Apr-21	16.75	16.76	0.01	9.56	unconfined	Static	
AOI 8	N-147D	13-Apr-21	---	11.50	---	3.72	lower aquifer	Static	
AOI 8	N-148D	13-Apr-21	---	28.97	---	3.01	lower aquifer	Static	
AOI 8	N-149D	27-Apr-21	---	9.02	---	1.27	lower aquifer	Static	
AOI 8	N-150	13-Apr-21	---	5.44	---	4.76	unconfined	Static	
AOI 8	N-151	13-Apr-21	17.87	19.09	1.22	11.18	unconfined	Static	
AOI 8	N-152	13-Apr-21	---	9.39	---	11.47	unconfined	Static	
AOI 8	N-153	12-Apr-21	---	26.55	---	9.16	unconfined	Static	
AOI 8	N-155	12-Apr-21	---	25.15	---	9.12	lower aquifer	Static	
AOI 8	N-156	13-Apr-21	---	10.98	---	-0.47	unconfined	Static	
AOI 8	N-157	12-Apr-21	26.45	26.45	<0.01	9.09	lower aquifer	Static	
AOI 8	N-158	13-Apr-21	18.84	29.81	10.97	11.23	NYC	Static	
AOI 8	N-159	13-Apr-21	20.51	28.14	7.63	9.81	NYC	Static	
AOI 8	N-160	27-Apr-21	---	17.52	---	8.69	NYC	Static	
AOI 8	N-161	27-Apr-21	27.50	27.55	0.05	8.88	NYC	Static	
AOI 8	N-162	27-Apr-21	---	22.11	---	10.36	NYC	Static	
AOI 8	N-163	27-Apr-21	---	18.95	---	8.28	lower aquifer	Static	
AOI 8	N-164	13-Apr-21	15.61	15.83	0.22	9.57	lower aquifer	Static	

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AOI 8	N-503	13-Apr-21	8.60	8.84	0.24	3.78	unconfined	Static	
AOI 8	N-504	13-Apr-21	8.47	8.72	0.25	3.82	unconfined	Static	
AOI 8	PGW-MW-5	13-Apr-21	---	26.66	---	7.42	unconfined	Static	
AOI 8	PGW-MW-6	13-Apr-21	---	6.54	---	1.47	lower aquifer	Static	
AOI 8	PGW-MW-7	13-Apr-21	15.42	16.14	0.72	7.55	unconfined	Static	
AOI 8	PGW-MW-8	13-Apr-21	---	24.24	---	7.35	unconfined	Static	
AOI 8	PGW-MW-9	13-Apr-21	---	25.29	---	7.12	unconfined	Static	
AOI 8	PGW-MW-20	13-Apr-21	---	5.66	---	8.50	unconfined	Static	
AOI 8	PGW-MW-21	13-Apr-21	---	4.67	---	8.28	unconfined	Static	
AOI 8	PGW-MW-24	14-Apr-21	---	26.26	---	10.40	unconfined	Static	
AOI 8	PGW-RW-3	13-Apr-21	NM	NM	NM	NM	NYC	Static	unable to access
AOI 8	PZ-201	13-Apr-21	---	21.81	---	10.47	unconfined	Static	
AOI 8	PZ-202	13-Apr-21	21.15	21.15	<0.01	12.25	unconfined	Static	
AOI 8	PZ-203	13-Apr-21	---	19.66	---	14.45	unconfined	Static	
AOI 8	PZ-204	13-Apr-21	NM	NM	NM	NM	unconfined	Static	viscous LNAPL
AOI 8	PZ-500	13-Apr-21	NM	NM	NM	NM	unconfined	Static	damaged
AOI 8	PZ-501	13-Apr-21	---	2.84	---	6.16	unconfined	Static	
AOI 8	PZ-502	13-Apr-21	3.48	3.54	0.06	4.43	unconfined	Static	
AOI 8	PZ-503	13-Apr-21	---	2.79	---	5.90	unconfined	Static	
AOI 8	PZ-504	13-Apr-21	---	1.83	---	5.80	unconfined	Static	
AOI 8	PZ-505	13-Apr-21	---	2.70	---	5.76	unconfined	Static	
AOI 8	PZ-506	13-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
AOI 8	RW-200	14-Apr-21	---	5.35	---	6.67	unconfined	Static	
AOI 8	RW-201	14-Apr-21	22.60	22.61	0.01	9.39	unconfined	Static	
AOI 8	RW-202	14-Apr-21	---	21.32	---	8.19	unconfined	Static	
AOI 8	RW-203	14-Apr-21	22.36	22.48	0.12	8.73	unconfined	Static	
AOI 8	RW-204	14-Apr-21	19.85	20.48	0.63	9.24	unconfined	Static	
AOI 8	RW-205	13-Apr-21	18.88	21.41	2.53	10.57	unconfined	Static	
AOI 8	RW-206	12-Apr-21	22.17	22.22	0.05	6.84	unconfined	Pumping	
AOI 8	RW-207	12-Apr-21	---	24.72	---	5.09	unconfined	Pumping	
AOI 8	RW-208	12-Apr-21	24.50	24.51	0.01	5.03	unconfined	Pumping	
AOI 8	RW-209	22-Apr-21	25.40	25.41	0.01	3.73	unconfined	Pumping	
AOI 8	RW-210	12-Apr-21	25.43	25.45	0.02	3.47	unconfined	Pumping	
AOI 8	RW-211	22-Apr-21	24.32	24.33	0.01	4.56	unconfined	Pumping	
AOI 8	RW-212	12-Apr-21	24.80	24.80	<0.01	4.08	unconfined	Pumping	
AOI 8	RW-213	12-Apr-21	---	24.95	---	3.41	unconfined	Pumping	
AOI 8	RW-214	12-Apr-21	24.50	24.50	<0.01	4.67	unconfined	Pumping	
AOI 8	RW-215	12-Apr-21	---	24.13	---	4.62	unconfined	Pumping	
AOI 8	RW-216	12-Apr-21	---	24.36	---	3.86	unconfined	Pumping	
AOI 8	RW-217	12-Apr-21	---	24.50	---	3.60	unconfined	Pumping	
AOI 8	RW-218	12-Apr-21	22.57	22.61	0.04	5.45	unconfined	Pumping	
AOI 8	RW-219	12-Apr-21	21.44	21.44	<0.01	5.99	unconfined	Pumping	
AOI 8	RW-220	12-Apr-21	21.16	21.16	<0.01	6.35	unconfined	Pumping	
AOI 8	RW-221	12-Apr-21	21.79	21.79	<0.01	5.86	unconfined	Pumping	
AOI 8	RW-222	12-Apr-21	22.65	22.66	0.01	5.45	unconfined	Pumping	
AOI 8	RW-223	12-Apr-21	---	21.63	---	7.89	unconfined	Pumping	
AOI 8	RW-224	12-Apr-21	---	24.48	---	5.68	unconfined	Pumping	
AOI 8	RW-225	12-Apr-21	---	24.30	---	5.64	unconfined	Pumping	
AOI 8	RW-226	12-Apr-21	---	21.19	---	6.38	unconfined	Pumping	
AOI 8	RW-227	12-Apr-21	---	22.50	---	4.68	unconfined	Pumping	
AOI 8	RW-228	12-Apr-21	---	21.32	---	5.83	unconfined	Pumping	
AOI 8	RW-229	12-Apr-21	21.39	21.41	0.02	6.51	unconfined	Pumping	
AOI 8	RW-230	12-Apr-21	22.97	22.98	0.01	5.05	unconfined	Pumping	
AOI 8	RW-231	12-Apr-21	---	22.88	---	3.95	unconfined	Pumping	
AOI 8	RW-232	12-Apr-21	---	16.19	---	5.84	unconfined	Pumping	
AOI 8	RW-233	12-Apr-21	8.90	8.90	<0.01	12.19	unconfined	Pumping	
AOI 8	RW-234	12-Apr-21	---	23.00	---	5.64	unconfined	Pumping	
AOI 8	RW-235	12-Apr-21	21.88	21.88	<0.01	6.22	unconfined	Pumping	
AOI 8	RW-236	12-Apr-21	21.10	21.31	0.21	6.09	unconfined	Pumping	
AOI 8	RW-300	13-Apr-21	14.41	14.42	0.01	7.23	lower aquifer	Static	
AOI 8	RW-306	12-Apr-21	12.76	12.76	<0.01	10.83	unconfined	Static	
AOI 8	RW-309	13-Apr-21	NM	NM	NM	NM	unconfined	Static	destroyed
AOI 8	RW-500	14-Apr-21	---	1.65	---	5.91	unconfined	Static	
AOI 8	RW-501	13-Apr-21	---	4.25	---	5.54	unconfined	Static	
AOI 8	RW-502	13-Apr-21	8.64	8.82	0.18	3.82	unconfined	Static	
AOI 8	V-MW-1	14-Apr-21	---	21.23	---	11.30	unconfined	Static	
AOI 8	V-MW-2	14-Apr-21	---	24.50	---	9.10	unconfined	Static	

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AOI	Well ID	Date	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	Apparent LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft NAVD 88)	Well Classification	Static or Pumping	Comments
AOI 8	V-MW-3	14-Apr-21	---	24.43	---	8.22	unconfined	Static	
AOI 8	V-MW-4	14-Apr-21	---	24.95	---	9.96	unconfined	Static	
AOI 8	V-MW-5	14-Apr-21	---	24.30	---	9.30	unconfined	Static	
AOI 8	V-MW-6	14-Apr-21	---	25.15	---	9.30	unconfined	Static	
AOI 8	V-MW-7	14-Apr-21	---	24.40	---	9.17	unconfined	Static	
AOI 8	V-MW-8	14-Apr-21	---	24.25	---	9.38	unconfined	Static	
AOI 8	V-MW-9	14-Apr-21	---	23.54	---	9.54	unconfined	Static	
AOI 8	V-MW-10	14-Apr-21	---	24.93	---	9.55	unconfined	Static	
AOI 8	V-MW-11	14-Apr-21	---	25.49	---	9.71	unconfined	Static	
AOI 8	V-MW-12	14-Apr-21	---	25.50	---	10.07	unconfined	Static	
AOI 8	V-MW-16	14-Apr-21	---	29.50	---	10.04	unconfined	Static	
AOI 9	MW-1SRTF	22-Apr-21	2.31	4.12	1.81	4.79	perched	Static	
AOI 9	MW-2SRTF	22-Apr-21	---	2.80	---	4.53	perched	Static	
AOI 9	MW-3SRTF	22-Apr-21	---	2.34	---	4.65	Perched	Static	
AOI 9	RW-A	21-Apr-21	---	3.13	---	-5.00	perched	Static	
AOI 9	RW-B	22-Apr-21	2.87	2.88	0.01	4.53	perched	Static	
AOI 9	RW-B5	22-Apr-21	3.41	3.41	<0.01	4.44	perched	Static	
AOI 9	S-74D1SRTF	21-Apr-21	---	20.72	---	-7.97	lower aquifer	Static	
AOI 9	S-74D2SRTF	21-Apr-21	---	15.08	---	-2.04	unconfined	Static	
AOI 9	S-74SRTF	21-Apr-21	---	7.35	---	7.19	perched	Static	
AOI 9	S-75SRTF	21-Apr-21	---	6.97	---	4.56	perched	Static	
AOI 9	S-76DSRTF	21-Apr-21	---	16.38	---	-7.83	lower aquifer	Static	
AOI 9	S-76SRTF	28-Apr-21	---	4.98	---	1.95	perched	Static	
AOI 9	S-77SRTF	21-Apr-21	---	11.80	---	-7.45	unconfined	Static	
AOI 9	S-78SRTF	21-Apr-21	---	9.55	---	-8.05	unconfined	Static	
AOI 9	S-79SRTF	21-Apr-21	---	6.23	---	-4.39	unconfined	Static	
AOI 9	S-80SRTF	21-Apr-21	---	3.13	---	-0.56	perched	Static	
AOI 9	S-81SRTF	22-Apr-21	---	9.55	---	-8.09	unconfined	Static	
AOI 9	S-82SRTF	21-Apr-21	---	1.41	---	-0.30	unconfined	Static	
AOI 9	S-83SRTF	21-Apr-21	---	2.63	---	-0.25	unconfined	Static	
AOI 9	S-105SRTF	21-Apr-21	---	5.67	---	-3.72	perched	Static	
AOI 9	S-106DSRTF	22-Apr-21	---	18.34	---	-8.88	lower aquifer	Static	
AOI 9	S-106SRTF	22-Apr-21	---	5.57	---	4.45	perched	Static	
AOI 9	S-108SRTF	21-Apr-21	---	4.25	---	0.06	unconfined	Static	
AOI 9	S-109SRTF	21-Apr-21	---	2.32	---	0.03	unconfined	Static	
AOI 9	S-110DSRTF	22-Apr-21	---	10.72	---	-8.05	lower aquifer	Static	
AOI 9	S-110SRTF	22-Apr-21	---	6.00	---	-2.51	NYC	Static	
AOI 9	S-111SRTF	22-Apr-21	8.45	8.46	0.01	-7.68	unconfined	Static	
AOI 9	S-112SRTF	22-Apr-21	---	9.94	---	-8.43	unconfined	Static	
AOI 9	S-113SRTF	22-Apr-21	---	11.31	---	-8.29	unconfined	Static	
AOI 9	S-114SRTF	22-Apr-21	---	10.54	---	-8.38	unconfined	Static	
AOI 9	S-115DSRTF	22-Apr-21	---	10.93	---	-8.23	lower aquifer	Static	
AOI 9	S-115SRTF	22-Apr-21	---	11.34	---	-8.59	unconfined	Static	
AOI 9	S-116SRTF	22-Apr-21	---	9.52	---	-8.65	unconfined	Static	
AOI 9	S-117SRTF	22-Apr-21	---	7.99	---	-5.12	NYC	Static	
AOI 9	S-118DSRTF	21-Apr-21	---	11.89	---	-8.63	lower aquifer	Static	
AOI 9	S-118SRTF	21-Apr-21	---	9.85	---	-6.22	unconfined	Static	
AOI 9	S-119SRTF	21-Apr-21	---	3.53	---	-1.18	perched	Static	
AOI 9	S-120DSRTF	22-Apr-21	---	21.13	---	-8.76	unconfined	Static	
AOI 9	S-120SRTF	22-Apr-21	---	8.45	---	3.62	perched	Static	
AOI 9	S-121SRTF	21-Apr-21	---	6.37	---	-5.36	unconfined	Static	
AOI 9	S-122SRTF	21-Apr-21	8.56	9.60	1.04	-6.33	unconfined	Static	
AOI 9	S-123SRTF	21-Apr-21	---	9.20	---	-6.79	NYC	Static	
AOI 9	S-124SRTF	21-Apr-21	---	6.03	---	1.85	perched	Static	
AOI 9	S-125SRTF	21-Apr-21	---	4.47	---	2.71	perched	Static	
AOI 9	S-126SRTF	22-Apr-21	---	6.96	---	4.87	perched	Static	
AOI 9	S-127SRTF	21-Apr-21	---	7.07	---	5.06	perched	Static	
AOI 9	S-128SRTF	21-Apr-21	---	8.78	---	4.53	perched	Static	
AOI 9	S-129SRTF	21-Apr-21	---	6.06	---	5.29	perched	Static	
AOI 9	S-130SRTF	21-Apr-21	---	7.21	---	3.33	perched	Static	
AOI 9	S-131SRTF	21-Apr-21	---	4.32	---	4.49	perched	Static	
AOI 9	S-132SRTF	21-Apr-21	---	6.93	---	1.77	perched	Static	
AOI 9	S-133SRTF	21-Apr-21	---	3.15	---	1.53	perched	Static	
AOI 9	S-134SRTF	21-Apr-21	---	6.93	---	3.25	perched	Static	
AOI 9	S-135SRTF	22-Apr-21	---	10.53	---	-7.55	unconfined	Static	
AOI 9	S-136SRTF	21-Apr-21	---	4.96	---	0.32	NYC	Static	
AOI 9	S-137SRTF	21-Apr-21	---	18.98	---	-9.02	unconfined	Static	

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AOI 9	S-138SRTF	21-Apr-21	---	18.22	---	-8.23	lower aquifer	Static	
AOI 9	S-139SRTF	21-Apr-21	---	17.53	---	-7.48	unconfined	Static	
AOI 9	S-140SRTF	21-Apr-21	---	5.29	---	5.18	perched	Static	
AOI 9	S-141SRTF	21-Apr-21	---	19.97	---	-9.51	unconfined	Static	
AOI 9	S-142SRTF	21-Apr-21	---	16.74	---	-9.80	unconfined	Static	
AOI 9	S-143SRTF	21-Apr-21	---	15.79	---	-9.02	lower aquifer	Static	
AOI 9	S-144SRTF	21-Apr-21	---	8.19	---	-7.67	unconfined	Static	
AOI 9	S-145SRTF	22-Apr-21	---	9.45	---	-8.23	unconfined	Static	
AOI 9	S-146SRTF	21-Apr-21	---	25.14	---	-8.46	unconfined	Static	
AOI 9	S-147SRTF	21-Apr-21	---	23.18	---	-8.05	unconfined	Static	
AOI 9	S-148SRTF	21-Apr-21	---	21.05	---	-8.28	unconfined	Static	
AOI 9	S-149SRTF	21-Apr-21	---	21.48	---	-8.02	unconfined	Static	
AOI 9	S-150SRTF	22-Apr-21	---	15.63	---	-9.23	lower aquifer	Static	
AOI 9	WPA-1	21-Apr-21	---	6.20	---	-3.47	perched	Static	
AOI 9	WPA-2	21-Apr-21	---	7.46	---	-4.77	perched	Static	
AOI 9	WPA-3	21-Apr-21	NM	NM	NM	NM	perched	Static	damaged - obstruction at 6.15 ft btoc
AOI 9	WPA-5	21-Apr-21	NM	NM	NM	NM	perched	Static	damaged - obstruction at 7.14 ft btoc
AOI 9	WPB-2	22-Apr-21	---	6.71	---	4.59	perched	Static	
AOI 9	WPB-4	22-Apr-21	NM	NM	NM	NM	perched	Static	damaged - obstruction at 2.00 ft btoc
AOI 9	WPB-5	22-Apr-21	---	8.31	---	4.01	perched	Static	
AOI 10	W-1	23-Apr-21	6.68	6.68	<0.01	2.93	unconfined	Static	
AOI 10	W-1D	23-Apr-21	---	9.98	---	0.75	lower aquifer	Static	
AOI 10	W-2	23-Apr-21	---	14.85	---	4.60	unconfined	Static	
AOI 10	W-5	23-Apr-21	---	2.92	---	4.81	unconfined	Static	
AOI 10	W-6	23-Apr-21	---	0.32	---	7.17	NYC	Static	
AOI 10	W-8	23-Apr-21	3.39	3.39	<0.01	5.06	NYC	Static	
AOI 10	W-9	23-Apr-21	---	10.23	---	-0.94	lower aquifer	Static	
AOI 10	W-10	23-Apr-21	4.02	4.03	0.01	3.45	unconfined	Static	
AOI 10	W-11	23-Apr-21	---	5.01	---	3.05	unconfined	Static	
AOI 10	W-12	23-Apr-21	---	4.18	---	2.92	unconfined	Static	
AOI 10	W-13	23-Apr-21	---	8.34	---	-1.69	lower aquifer	Static	
AOI 10	W-14	23-Apr-21	---	2.94	---	4.32	unconfined	Static	
AOI 10	W-15	23-Apr-21	---	2.29	---	6.49	unconfined	Static	
AOI 10	W-16	23-Apr-21	---	2.74	---	3.90	unconfined	Static	
AOI 10	W-17	23-Apr-21	---	3.57	---	3.65	unconfined	Static	
AOI 10	W-18	23-Apr-21	NM	NM	NM	NM	NYC	Static	damaged - black sediment in well
AOI 10	W-19	23-Apr-21	---	11.36	---	-1.30	lower aquifer	Static	
AOI 10	W-20	23-Apr-21	---	3.73	---	6.38	unconfined	Static	
AOI 10	W-22	21-Apr-21	---	0.91	---	5.53	unconfined	Static	
AOI 10	W-23	21-Apr-21	---	2.01	---	5.54	unconfined	Static	
AOI 10	W-24	21-Apr-21	NM	NM	NM	NM	NYC	Static	unable to locate
AOI 10	W-25	21-Apr-21	---	5.78	---	4.37	unconfined	Static	
AOI 10	W-26	21-Apr-21	---	12.25	---	-2.27	lower aquifer	Static	
AOI 10	W-27	21-Apr-21	---	8.63	---	2.23	lower aquifer	Static	
AOI 10	W-28	23-Apr-21	---	3.55	---	5.06	unconfined	Static	
AOI 10	W-29	23-Apr-21	---	7.09	---	4.73	unconfined	Static	
AOI 10	W-30	23-Apr-21	---	3.70	---	4.95	unconfined	Static	
AOI 10	W-31	23-Apr-21	3.74	3.76	0.02	4.53	NYC	Static	
AOI 10	W-32	23-Apr-21	9.55	9.68	0.13	5.27	NYC	Static	
AOI 10	W-32D	23-Apr-21	---	15.86	---	-1.16	lower aquifer	Static	
AOI 10	W-33	21-Apr-21	---	11.12	---	5.95	unconfined	Static	
AOI 10	W-34	21-Apr-21	---	7.28	---	6.86	unconfined	Static	
BELMONT	MW-26	20-Apr-21	22.05	22.49	0.44	4.59	unconfined	Static	
BELMONT	MW-27	20-Apr-21	23.99	24.33	0.34	4.59	unconfined	Static	
BELMONT	MW-28	20-Apr-21	23.89	23.89	<0.01	4.90	unconfined	Static	
BELMONT	MW-29	20-Apr-21	23.87	25.82	1.95	4.73	unconfined	Static	
BELMONT	MW-30	20-Apr-21	---	27.00	---	4.70	unconfined	Static	
BELMONT	MW-31	20-Apr-21	25.01	25.01	<0.01	5.56	unconfined	Static	
BELMONT	MW-32	20-Apr-21	---	24.64	---	4.50	unconfined	Static	
BELMONT	MW-33	20-Apr-21	---	25.12	---	4.87	unconfined	Static	
BELMONT	MW-35	20-Apr-21	---	26.52	---	4.12	unconfined	Static	
BELMONT	MW-36	20-Apr-21	---	27.31	---	5.26	unconfined	Static	
BELMONT	MW-37	20-Apr-21	---	26.83	---	5.09	unconfined	Static	
BELMONT	MW-38	20-Apr-21	---	23.12	---	4.50	unconfined	Static	
BELMONT	MW-39	20-Apr-21	---	23.00	---	4.55	unconfined	Static	
BELMONT	MW-40	20-Apr-21	23.29	23.51	0.22	4.55	unconfined	Static	
BELMONT	MW-41	20-Apr-21	22.74	22.74	<0.01	4.62	unconfined	Static	

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BELMONT	MW-43	20-Apr-21	---	25.92	---	4.69	unconfined	Static	
BELMONT	MW-44	20-Apr-21	---	25.12	---	4.18	unconfined	Static	
BELMONT	OW-2	26-Apr-21	---	26.79	---	4.88	unconfined	Static	
BELMONT	OW-12	20-Apr-21	---	25.30	---	4.92	unconfined	Static	
BELMONT	OW-13	20-Apr-21	---	27.37	---	4.83	unconfined	Static	
BELMONT	OW-14	20-Apr-21	---	27.56	---	4.65	unconfined	Static	
BELMONT	OW-16	20-Apr-21	26.49	26.49	<0.01	4.90	unconfined	Static	
BELMONT	OW-17	20-Apr-21	---	25.61	---	4.38	unconfined	Static	
BELMONT	OW-18	20-Apr-21	---	25.80	---	5.04	unconfined	Static	
BELMONT	OW-19	20-Apr-21	---	24.56	---	6.44	unconfined	Static	
BELMONT	OW-20	20-Apr-21	---	26.95	---	4.92	unconfined	Static	
BELMONT	PZ-400	22-Apr-21	---	23.55	---	4.55	unconfined	Static	
BELMONT	RW-1	20-Apr-21	---	24.88	---	4.67	unconfined	Static	
BELMONT	RW-4	20-Apr-21	25.49	25.86	0.37	4.88	unconfined	Static	
BELMONT	RW-6	20-Apr-21	---	26.29	---	4.77	unconfined	Static	
BELMONT	RW-7	26-Apr-21	---	23.44	---	4.77	unconfined	Static	
BELMONT	RW-15	20-Apr-21	---	26.29	---	3.76	unconfined	Static	
BELMONT	RW-21	20-Apr-21	---	24.38	---	4.48	unconfined	Static	
BELMONT	RW-22	26-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to access
BELMONT	RW-23	26-Apr-21	22.52	22.55	0.03	4.60	NYC	Static	
BELMONT	RW-24	26-Apr-21	22.62	22.70	0.08	4.53	unconfined	Static	
BELMONT	RW-25	26-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to access
BELMONT	RW-26	20-Apr-21	---	24.65	---	4.56	unconfined	Static	
BELMONT	RW-27	20-Apr-21	---	25.56	---	4.15	unconfined	Static	
BELMONT	RW-28	26-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to access
BELMONT	RW-29	20-Apr-21	---	25.25	---	4.19	unconfined	Static	
BELMONT	RW-30	20-Apr-21	---	25.06	---	4.33	unconfined	Static	
BELMONT	RW-31	20-Apr-21	---	25.03	---	4.35	unconfined	Static	
BELMONT	RW-32	20-Apr-21	---	19.34	---	9.71	unconfined	Static	
BELMONT	RW-400	22-Apr-21	---	23.64	---	4.55	unconfined	Static	
BELMONT	S-74	20-Apr-21	---	25.54	---	4.50	unconfined	Static	
BELMONT	S-75	20-Apr-21	---	26.68	---	4.55	unconfined	Static	
BELMONT	S-76	20-Apr-21	26.46	26.47	0.01	4.58	unconfined	Static	
BELMONT	S-330	20-Apr-21	---	25.06	---	4.79	unconfined	Static	
BELMONT	S-331	20-Apr-21	---	24.75	---	6.53	unconfined	Static	
BELMONT	S-332	20-Apr-21	---	25.77	---	4.48	unconfined	Static	
BELMONT	S-393D	20-Apr-21	---	28.81	---	3.25	lower aquifer	Static	
BELMONT	S-394	20-Apr-21	---	29.13	---	2.99	lower aquifer	Static	
BELMONT	S-395	20-Apr-21	---	27.25	---	4.97	unconfined	Static	
BELMONT	S-452	20-Apr-21	---	26.06	---	4.48	unconfined	Static	damaged
BELMONT	S-453	20-Apr-21	---	25.85	---	4.50	unconfined	Static	
BELMONT	S-454	20-Apr-21	---	27.50	---	3.15	lower aquifer	Static	
BELMONT	S-455	20-Apr-21	---	23.39	---	4.55	unconfined	Static	
BELMONT	S-456	20-Apr-21	---	26.23	---	3.90	unconfined	Static	
BELMONT	S-457	20-Apr-21	---	24.86	---	4.46	unconfined	Static	
BELMONT	S-458	20-Apr-21	---	27.34	---	4.97	unconfined	Static	
BELMONT	S-459	20-Apr-21	---	23.53	---	3.05	lower aquifer	Static	
BELMONT	S-460	20-Apr-21	---	26.39	---	2.96	lower aquifer	Static	
BELMONT	S-461	20-Apr-21	---	22.33	---	4.57	unconfined	Static	
BELMONT	S-462	20-Apr-21	---	23.68	---	3.25	lower aquifer	Static	
BELMONT	S-463	26-Apr-21	---	26.70	---	4.83	unconfined	Static	
BELMONT	S-464	20-Apr-21	---	26.78	---	4.85	unconfined	Static	
BELMONT	S-465	20-Apr-21	---	26.88	---	5.32	unconfined	Static	
BELMONT	S-466	20-Apr-21	---	26.88	---	3.03	lower aquifer	Static	
BELMONT	S-467	20-Apr-21	---	26.53	---	4.69	unconfined	Static	
BELMONT	S-468	20-Apr-21	---	26.57	---	4.30	unconfined	Static	
BELMONT	S-469	20-Apr-21	---	25.24	---	4.50	unconfined	Static	
BELMONT	TW-3	20-Apr-21	27.25	27.25	<0.01	4.87	unconfined	Static	
BELMONT	TW-5	20-Apr-21	---	27.04	---	5.03	unconfined	Static	
BELMONT	TW-8	20-Apr-21	---	25.46	---	4.68	unconfined	Static	
BELMONT	TW-9	20-Apr-21	---	27.38	---	4.72	unconfined	Static	
BELMONT	TW-10	26-Apr-21	NM	NM	NM	NM	NYC	Static	unable to access
BELMONT	TW-11	20-Apr-21	---	27.87	---	4.53	unconfined	Static	
PGW	PGW-MW-1	13-Apr-21	---	27.04	---	8.93	unconfined	Static	
PGW	PGW-MW-1D	13-Apr-21	---	31.17	---	2.40	lower aquifer	Static	
PGW	PGW-MW-1S	13-Apr-21	---	25.61	---	7.61	unconfined	Static	
PGW	PGW-MW-2A	13-Apr-21	---	25.83	---	8.44	unconfined	Static	

Table 2
Sitewide 2021 Annual Gauging Data
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

AOI	Well ID	Date	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	Apparent LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft NAVD 88)	Well Classification	Static or Pumping	Comments
PGW	PGW-MW-2AS	13-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
PGW	PGW-MW-2D	13-Apr-21	---	32.50	---	2.66	lower aquifer	Static	
PGW	PGW-MW-2S	13-Apr-21	---	25.52	---	9.71	unconfined	Static	
PGW	PGW-MW-3	13-Apr-21	---	26.68	---	10.72	unconfined	Static	
PGW	PGW-MW-3D	13-Apr-21	---	31.95	---	2.78	lower aquifer	Static	
PGW	PGW-MW-3S	13-Apr-21	---	24.36	---	10.13	unconfined	Static	
PGW	PGW-MW-4	13-Apr-21	NM	NM	NM	NM	unconfined	Static	damaged
PGW	PGW-MW-4S	13-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
PGW	PGW-MW-5S	13-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
PGW	PGW-MW-6S	13-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
PGW	PGW-MW-7S	13-Apr-21	---	19.81	---	9.27	unconfined	Static	
PGW	PGW-MW-10A	13-Apr-21	27.01	27.42	0.41	9.57	unconfined	Static	
PGW	PGW-MW-10S	30-Apr-21	---	23.59	---	10.01	unconfined	Static	
PGW	PGW-MW-11	13-Apr-21	---	23.06	---	10.91	unconfined	Static	
PGW	PGW-MW-11S	13-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to access
PGW	PGW-MW-12	13-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
PGW	PGW-MW-13	13-Apr-21	---	24.69	---	10.50	unconfined	Static	
PGW	PGW-MW-13S	30-Apr-21	---	22.39	---	9.65	unconfined	Static	
PGW	PGW-MW-14S	30-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to access
PGW	PGW-MW-15	13-Apr-21	---	27.44	---	8.73	unconfined	Static	
PGW	PGW-MW-15S	30-Apr-21	---	20.57	---	9.75	unconfined	Static	
PGW	PGW-MW-16	13-Apr-21	23.68	23.96	0.28	10.91	unconfined	Static	
PGW	PGW-MW-17	13-Apr-21	---	26.98	---	9.41	unconfined	Static	
PGW	PGW-MW-18N	13-Apr-21	NM	NM	NM	NM	unconfined	Static	damaged
PGW	PGW-MW-18S	13-Apr-21	26.11	26.13	0.02	9.59	unconfined	Static	
PGW	PGW-MW-19	13-Apr-21	NM	NM	NM	NM	unconfined	Static	damaged - obstruction at 19.36 ft btoc
PGW	PGW-MW-22	13-Apr-21	---	26.88	---	10.13	unconfined	Static	
PGW	PGW-MW-23	13-Apr-21	---	24.78	---	11.11	unconfined	Static	
PGW	PGW-MW-25	13-Apr-21	25.50	25.52	0.02	10.43	unconfined	Static	
PGW	PGW-MW-26A	13-Apr-21	24.78	24.80	0.02	12.03	unconfined	Static	
PGW	PGW-MW-27	13-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
PGW	PGW-MW-30	13-Apr-21	19.69	21.41	1.72	13.90	unconfined	Static	
PGW	PGW-MW-31	13-Apr-21	24.09	25.21	1.12	10.95	unconfined	Static	
PGW	PGW-MW-32	13-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
PGW	PGW-MW-33	13-Apr-21	24.81	25.06	0.25	10.90	unconfined	Static	
PGW	PGW-MW-34	13-Apr-21	---	25.12	---	10.68	unconfined	Static	
PGW	PGW-MW-36	13-Apr-21	NM	NM	NM	NM	unconfined	Static	unable to locate
PGW	PGW-MW-37	13-Apr-21	25.62	25.86	0.24	10.22	unconfined	Static	
PGW	PGW-MW-39	13-Apr-21	---	24.02	---	9.98	unconfined	Static	
PGW	PGW-MW-40A	13-Apr-21	24.84	25.06	0.22	11.93	unconfined	Static	
PGW	PGW-MW-42	13-Apr-21	---	12.27	---	22.15	unconfined	Static	
PGW	PGW-MW-42D	13-Apr-21	---	30.45	---	3.24	lower aquifer	Static	
PGW	PGW-MW-42R	13-Apr-21	---	21.37	---	11.74	unconfined	Static	
PGW	PGW-MW-44	13-Apr-21	---	20.58	---	12.71	unconfined	Static	
PGW	PGW-MW-45	13-Apr-21	---	21.87	---	12.87	unconfined	Static	

Notes:
For product thickness <0.01 ft, the corrected groundwater elevation was calculated using 0.01 foot.
LNAPL = Light non-aqueous phase liquid
ft = Feet
btoc = Below top of casing
ft btoc = Feet below top of casing
ft bgs = Feet below ground surface
DTW = Depth to water
NAVD 88 = North American Vertical Datum of 1988
--- = LNAPL not present
NM = Field reading not measured and/or corrected groundwater elevation not calculated due to lack of surveyed reference elevation or well was dry or presence of down-well pump.
NYC = Not yet classified

Table 3
Sitewide 2021 Annual Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Type	Sample Date	Sample ID	BENZENE µg/L	TOLUENE µg/L	ETHYLBENZENE µg/L	XYLENES, TOTAL (DIMETHYLBENZENE) µg/L	METHYL TERTIARY BUTYL ETHER µg/L	TERT-BUTYL ALCOHOL µg/L	ISOPROPYLBENZENE (CUMENE) µg/L	NAPHTHALENE µg/L	1,2,4-TRIMETHYLBENZENE µg/L	1,3,5-TRIMETHYLBENZENE µg/L	1,2-DICHLOROETHANE (EDC) µg/L	1,2-DIBROMOETHANE (EDB) µg/L	CHRYSENE µg/L	FLUORENE µg/L	PHENANTHRENE µg/L	PYRENE µg/L	ANTHRACENE µg/L	BENZO(A)ANTHRACENE µg/L	BENZO(A)PYRENE µg/L	BENZO(B)FLUORANTHENE µg/L	BENZO(G,H,I)PERYLENE µg/L	LEAD, Dissolved µg/L
AOI 1	ARCO-1		7-May-21	ARCO-1_20210507	290	27	3.9 J	23 J	ND (5.0)	ND (250)	29	0.75	ND (25)	2.8 J	ND (5.0)	ND (0.028)	ND (0.51)	0.51	0.40 J	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	0.10 J
	ARCO-1D		7-May-21	ARCO-1D_20210507	150	0.62 J	ND (1.0)	ND (6.0)	84	ND (50)	0.76 J	ND (0.53)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.52)
	ARCO-1D	Field Duplicate	7-May-21	DUP-7_20210507	170	0.74 J	ND (1.0)	ND (6.0)	74	ND (50)	0.89 J	ND (0.51)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.028)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.52)
	ARCO-2		7-May-21	ARCO-2_20210507	320	40	18	76	ND (5.0)	ND (250)	81	1.6	ND (25)	5.8 J	ND (5.0)	ND (0.028)	ND (0.52)	1.8	1.4	ND (0.52)	0.12 J	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	0.10 J
	ARCO-3		7-May-21	ARCO-3_20210507	1,800	95	43	97	ND (5.0)	ND (250)	71	14	7.2 J	12 J	ND (5.0)	ND (0.028)	ND (0.52)	1.5	1.1	ND (0.52)	0.12 J	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	0.22 J
	S-42I		6-May-21	S-42I_20210506	0.24 J	ND (1.0)	ND (1.0)	ND (6.0)	6.6	12 J	ND (5.0)	ND (0.56)	ND (5.0)	ND (5.0)	0.90 J	ND (0.029)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.52)
	S-44		5-May-21	S-44_20210505	150	8.8	3.1 J	12 J	54	2,500	31	ND (0.58)	ND (25)	ND (25)	ND (5.0)	ND (0.029)	ND (0.58)	0.15 J	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.52)
	S-44	Field Duplicate	5-May-21	DUP-6_20210505	150	7.9	2.7 J	9.8 J	54	2,600	24 J	ND (0.59)	ND (25)	ND (25)	ND (5.0)	ND (0.029)	ND (0.59)	0.20 J	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.52)
	S-50		5-May-21	S-50_20210505	2.1	0.48 J	ND (1.0)	ND (6.0)	0.27 J	ND (50)	1.2 J	0.44 J	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.60)	ND (0.60)	0.34 J	0.29 J	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.52)
	S-87I		6-May-21	S-87I_20210506	1.9 J	4.5 J	ND (5.0)	ND (30)	250	180,000	ND (25)	ND (0.54)	ND (25)	ND (25)	ND (5.0)	ND (0.028)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.52)
	S-193		12-May-21	S-193_20210512	7.8	ND (1.0)	1.5	ND (6.0)	0.86 J	14 J	0.56 J	ND (0.50)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	0.14 J
	S-199		26-Apr-21	S-199_SL_20210426	11,000 SL	1,800 SL	640 SL	2,600 SL	15,000 SL	56,000 SL	47 J SL	560 SL	570 SL	190 SL	ND (10) SL	ND (0.082) SL	0.34 J SL	6.5 SL	9.6 SL	1.4 SL	1.5 SL	0.29 J SL	0.27 J SL	0.22 J SL	ND (0.51) SL	3.5 SL
	S-200		19-May-21	S-200_20210519	6,200	63	380	580	240	270	32	660	580	290	ND (1.0)	ND (0.028)	2.9	22	15	9.8	6.2	3.3	2.0	2.2	0.70	0.81
	S-230		7-May-21	S-230_20210507	8,300	120	39	18 J	2.4 J	ND (500)	2.3 J	8.9	11 J	4.0 J	ND (10)	ND (0.028)	0.24 J	0.72	0.33 J	0.50 J	0.26 J	0.15 J	0.21 J	0.33 J	ND (0.56)	0.30 J
	S-271		7-May-21	S-271_20210507	120	35	7.6	36	290	7,300	78	ND (0.55)	ND (25)	9.2 J	ND (5.0)	ND (0.028)	0.14 J	9.8	7.1	0.87	1.4	0.13 J	0.12 J	0.11 J	ND (0.55)	9.1
	S-273		6-May-21	S-273_20210506	420	9.9	58	260	55	210	8.4	ND (0.57)	23	21	ND (1.0)	ND (0.028)	ND (0.57)	0.29 J	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	0.40 J
	S-276		27-Apr-21	S-276_SL_20210427	1,600 SL	18 SL	270 SL	710 SL	140 SL	1,100 SL	24 J SL	15 SL	200 SL	86 SL	ND (5.0) SL	ND (0.029) SL	ND (0.50) SL	1.3 SL	1.0 SL	0.27 J SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	1.7 SL
	S-277		26-Apr-21	S-277_SL_20210426	4,800 SL	1,400 SL	140 SL	1,400 SL	4,700 SL	68,000 E SL	48 SL	52 SL	270 SL	130 SL	ND (5.0) SL	ND (0.029) SL	ND (0.50) SL	2.0 SL	1.5 SL	ND (0.50) SL	0.24 J SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	11 SL
	S-388D		29-Apr-21	S-388D_20210429	ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	5.6	1,000 E	ND (5.0)	ND (0.52)	ND (5.0)	ND (5.0)	0.38 J	ND (0.029)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)
	S-388D	Field Duplicate	29-Apr-21	DUP-4_20210429	ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	5.5	1,000 E	ND (5.0)	ND (0.51)	ND (5.0)	ND (5.0)	0.37 J	ND (0.029)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.52)
	S-396		5-May-21	S-396_20210505	ND (50)	ND (50)	ND (50)	ND (300)	730	45,000	22 J	0.38 J	ND (250)	ND (250)	ND (50)	ND (0.029)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.52)
	S-398		29-Apr-21	S-398_20210429	ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	3.1	ND (50)	ND (5.0)	ND (0.54)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.54)	0.24 J	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.52)
	S-399		29-Apr-21	S-399_20210429	6.4	3.4	0.83 J	4.7 J	6.9	600	0.23 J	0.60	ND (5.0)	0.31 J	ND (1.0)	ND (0.029)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)
	S-418		7-May-21	S-418_20210507	13,000	70	97	86	28	960	80	27	45 J	30 J	ND (10)	ND (0.028)	ND (0.59)	1.1	0.62	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	0.18 J
AOI 2	S-71		28-Apr-21	S-71_20210428	1.1	0.49 J	ND (1.0)	1.7 J	61	99	9.6	ND (0.51)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.030)	ND (0.51)	0.68	0.58	0.30 J	0.14 J	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	0.081 J
	S-72D		28-Apr-21	S-72D_20210428	ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	1.0	15 J	ND (5.0)	ND (0.53)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	1.1
	S-249		28-Apr-21	S-249_20210428	ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.56)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.52)
	S-294		27-Apr-21	S-294_20210427	46	6.8	340	350	ND (5.0)	ND (250)	130	1,300	150	47	ND (5.0)	ND (0.029)	3.7	64	92	15	18	3.6	2.1	2.3	0.85	ND (0.52)
	S-294D		27-Apr-21	S-294D_20210427	ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	2.8	ND (50)	ND (5.0)	ND (0.56)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.030)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	0.12 J	ND (0.56)	0.34 J
	S-302D		28-Apr-21	S-302D_20210428	ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	0.64 J	600	ND (5.0)	ND (0.54)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.54)	ND (0.54)	ND (0.54)	0.41 J	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.52)
	S-306		29-Apr-21	S-306_20210429	1.1	0.42 J	0.52 J	9.7	ND (1.0)	ND (50)	7.9	ND (0.54)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.54)	2.3	1.2	0.14 J	0.37 J	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.52)
	S-337		28-Apr-21	S-337_SL_20210428	3.9 SL	2.0 SL	1.6 SL	2.3 J SL	ND (1.0) SL	ND (50) SL	27 SL	ND (0.50) SL	ND (5.0) SL	2.1 J SL	ND (1.0) SL	ND (0.029) SL	0.14 J SL	0.35 J SL	ND (0.50) SL	0.38 J SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.52) SL
	S-354		28-Apr-21	S-354_20210428	ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.54)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.030)	ND (0.54)	ND (0.54)	0.17 J	0.29 J	ND (0.54)	0.16 J	0.17 J	0.24 J	0.16 J	1.3
	S-355		27-Apr-21	S-355_SL_20210427	1.2 SL	3.2 SL	0.71 J SL	5.4 J SL	2.9 SL	35 J SL	22 SL	ND (0.50) SL	ND (5.0) SL	0.35 J SL	ND (1.0) SL	ND (0.029) SL	ND (0.50) SL	1.7 SL	0.95 SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	0.20 J SL
	S-357		28-Apr-21	S-357_SL_20210428	1.4 SL	0.67 J SL	ND (1.0) SL	ND (6.0) SL	0.47 J SL	ND (50) SL	5.9 SL	ND (0.50) SL	ND (5.0) SL	ND (5.0) SL	ND (1.0) SL	ND (0.029) SL	0.72 SL	ND (0.50) SL	ND (0.50) SL	1.1 SL	0.59 SL	0.44 J SL	0.26 J SL	0.12 J SL	0.21 J SL	ND (0.52) SL
	S-422		27-Apr-21	S-422_20210427	ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	0.31 J	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	0.091 J
	S-423		27-Apr-21	S-423_SL_20210427	0.64 J SL	1.4 SL	ND (1.0) SL	ND (6.0) SL	5.1 SL	69 SL	33 SL	ND (0.50) SL	ND (5.0) SL	ND (5.0) SL	ND (1.0) SL	ND (0.029) SL	ND (0.50) SL	3.4 SL	3.3 SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	2.5 SL
	S-425		30-Apr-21	S-425_20210430	0.48 J	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.55)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	17
	S-427		29-Apr-21	S-427_20210429	ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	0.17 J	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	0.27 J	0.81	0.72	0.74	0.87	0.12 J	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	0.17 J
AOI 3	S-13		26-Apr-21	S-13_20210426	1.9	ND (1.0)	ND (1.0)	ND (6.0)	180	1,200 E	ND (5.0)	ND (0.58)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.030)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	0.15 J
	S-13	Field Duplicate	26-Apr-21	DUP-3_20210426	2.0	0.22 J	ND (1.0)	ND (6.0)	200	1,300 E	ND (5.0)	ND (0.52)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	0.088 J
	S-20		26-Apr-21	S-20_20210426	2.2	1.8	ND (1.0)	4.9 J	29	650	14	ND (0.61)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.61)	0.43 J	0.39 J	ND (0.61)	0.27 J	ND (0.61)	ND (0.61)	ND (0.61)	ND (0.61)	ND (0.52)
	S-69D		26-Apr-21	S-69D_20210426	0.43 J	ND (1.0)	ND (1.0)	ND (6.0)	2.0	ND (50)	ND (5.0)	0.32 J	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.52)
	S-280D		27-Apr-21	S-280D_20210427	ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	0.38 J	ND (50)	ND (5.0)	ND (0.51)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.52)
	S-284D		23-Apr-21	S-284D_20210423	10	4.2	0.55 J	6.0	1.3	ND (50)	ND (5.0)	0.22 J	1.1 J	0.43 J	ND (1.0)	ND (0.029)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.52)
	S-384		29-Apr-21	S-384_20210429	ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	1.2 J	ND (0.54)	1.0 J	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.54)	0.87	1.0	0.13 J	0.15 J	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.52)
	S-411		27-Apr-21	S-411_20210427	0.99 J	1.5	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.51)	ND (5.0)	0.74 J	ND (1.0)	ND (0.029)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	0.16 J
AOI 4	RW-701		10-May-21	RW-701_20210510	26	2.4	0.93 J	56	0.44 J	ND (50)	ND (5.0)	ND (0.58)	6.3	34	ND (1.0)	ND (0.028)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	0.26 J
	RW-703		10-May-21	RW-703_20210510	3,800	82	140	2,000	ND (5.0)	63 J	3.9 J	34	410	250	ND (5.0)	ND (0.029)	ND (0.55)	4.2	5.6	0.81	2.0	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.52)
	RW-708		3-May-21	RW-708_20210503	99	9.4	50	470	ND (1.0)	37 J	2.2 J	ND (0.51)	160	92	ND (1.0)	ND (0.029)	ND (0.51)	0.97	0.48 J	0.19 J	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	0.24 J
	RW-715		4-May-21	RW-715_20210504	6.0	2.4	ND (1.0)	3.9 J	0.35 J	12 J	1.5 J	0.24 J	2.7 J	0.32 J	ND (1.0)	ND (0.029)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.52)
	S-38		3-May-21	S-38_20210503	5.5	2.5	1.6	2.4 J	ND (1.0)	ND (50)	0.66 J	0.25 J	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)
	S-38	Field Duplicate	3-May-21	DUP-5_20210503	7.5	5.0	3.8	5.7 J	ND (1.0)	ND (50)	1.3 J	0.50 J	1.3 J	0.50 J	ND (1.0)	ND (0.028)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	0.088 J
	S-38D2		30-Apr-21	S-38D2_20210430	ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.60)	ND (5.0)	ND (5.0)	1.3	ND (0.029)	ND (0.60)	ND (0.60)	0.17 J	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	0.18 J
	S-39D		7-May-21	S-39D_20210507	0.69 J	ND (1.0)	ND (1.0)	ND (6.0)	24	ND (50)	ND (5.0)	ND (0.55)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.52)
	S-218D		30-Apr-21	S-218D_20210430	ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	36	ND (50)	ND (5.0)	ND (0.54)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.52)
	S-223		4-May-21	S-223_20210504	830	51	540	670	ND (5.0)	ND (250)	27	110	470	230	ND (5.0)	ND (0.029)	ND (0.52)	1.3	0.79	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	0.074 J
	S-368		19-May-21	S-368_SL_20210519	70 SL	3.4 SL	2.6 SL	17 SL	ND (1.0) SL	ND (50) SL	7.7 SL	ND (0.51) SL	9.6 SL	14 SL	ND (1.0) SL	ND (0.028) SL	0.57 SL	6.9 SL	15 SL	5.7 SL	3.0 SL	0.52 SL	ND (0.51) SL	ND (0.51) SL	ND (0.51) SL	0.076 J SL
	S-369		10-May-21	S-369_20210510	360	37	9.7	25	1.9	180	91	1.1	12	2.4 J	ND (1.0)	ND (0.029)	ND (0.53)	1.7	1.1	ND (0.53)	0.11 J	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	0.79
	S-369	Field Duplicate	10-May-21	DUP-8_20210510	370	41	10	26	2.0	180	100	ND (0.50)	13	2.5 J	3.3	ND (0.028)	ND (0.50)	2.1	1.3	ND (0.50)	0.12 J	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	0.76
	S-374		4-May-21	S-374_20210504	230	310	890	1,900	ND (5.0)	ND (250)	92	220	650	140	ND (5.0)	ND (0.029)	ND (0.51)	0.18 J	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	0.34 J
	S-375		4-May-21	S-375_20210504	490	390	890	4,200	ND (5.0)	93 J	39	190	630	220	ND (5.0)	ND (0.029)	ND (0.50)	0.18 J	0.15 J	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	0.12 J
	S-376		12-May-21	S-376_SL_20210512	630 SL	1,000 SL	490 SL	2,800 SL	6.4 SL	ND (250) SL	13 J SL	160 SL	530 SL	160 SL	ND (5.0) SL	ND (0.029) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.52) SL
	S-378		6-May-21	S-378_20210506	1,500	270	910	730	ND (5.0)	ND (2,500)	43	220	570	220	ND (5.0)	ND (0.029)	ND (0.52)	0.13 J	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)
	S-440		12-May-21	S-440_20210512	0.94 J	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.50)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.028)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.52)
	S-441		5-May-21	S-441_20210505	360	120	23	150	6.0	ND (250)	19 J	4.8	22 J	17 J	2.0 J	ND (0.028)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.52)
	S-442		5-May-21	S-442_20210505	1,100	21	18	20 J	13	ND (250)	15 J	1.6	34	ND (25)	ND (5.0)	ND (0.029)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)
	S-443		5-May-21	S-443_20210505	130	7.3	31	18 J	11	ND (250)	7.3 J	6.7	190	4.0 J	ND (5.0)	ND (0.029)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.52)
	S-444		6-May-21	S-444_20210506	5.6	150	540	360	ND (5.0)	ND (250)	50	85	24 J	25	ND (5.0)	ND (0.029)	ND (0.52)	0.16 J	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)
	S-445		5-May-21	S-445_20210505	410	100	49	90	ND (5.0)	ND (250)	22 J	17	14 J	8.1 J	ND (5.0)	ND (0.029)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)
	S-446		5-May-21	S-446_20210505	1.2 J	81	170	190	ND (5.0)	ND (250)	49	53	ND (25)	3.3 J	ND (5.0)	ND (0.029)	ND (0.51)	0.22 J	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.52)
	S-447		3-May-21	S-447_20210503	220	450	310	710	ND (5.0)	ND (250)	15 J	31	120	40	ND (5.0)	ND (0.029)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.52)
	S-448		6-May-21	S-448_20210506	3.5	ND (1.0)	ND (1.0)	ND (6.0)	2.9	ND (50)	ND (5.0)	ND (0.52)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.028)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)
	S-449		6-May-21	S-449_20210506	3,700	200	30	130	550	240 J	37	2.5	9.4 J	11 J	ND (5.0)	ND (0.029)	ND (0.52)	ND (0.52)	ND (0.52)	0.15 J	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)

See notes on last page.

Table 3
Sitewide 2021 Annual Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

					BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
AOI 5	A-4		30-Apr-21	A-4_20210430	ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.61)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.61)	ND (0.61)	ND (0.61)	ND (0.61)	ND (0.61)	ND (0.61)	ND (0.61)	ND (0.61)	ND (0.61)	0.30 J
	A-19D		29-Apr-21	A-19D_20210429	0.53 J	ND (1.0)	ND (1.0)	ND (6.0)	44	590	0.31 J	ND (0.50)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.030)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.52)
	A-21D		29-Apr-21	A-21D_20210429	0.67 J	ND (1.0)	ND (1.0)	ND (6.0)	3.4	23 J	ND (5.0)	ND (0.50)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.50)	0.15 J	0.50	0.33 J	ND (0.50)	ND (0.50)	0.13 J	ND (0.50)	ND (0.50)	ND (0.52)
	A-134		29-Apr-21	A-134_20210429	38	15	0.94 J	23	ND (1.0)	ND (50)	60	ND (0.51)	2.1 J	1.8 J	ND (1.0)	ND (0.029)	0.13 J	3.4	2.0	1.2	0.91	0.14 J	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.52)
	A-139		28-Apr-21	A-139_20210428	ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.51)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	53
	A-140		29-Apr-21	A-140_20210429	0.30 J	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.51)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.52)
	A-182		30-Apr-21	A-182_20210430	0.20 J	0.22 J	ND (1.0)	ND (6.0)	0.87 J	50	ND (5.0)	ND (0.58)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	0.087 J
	RWBH-2		10-May-21	RWBH-2_SL_20210510	0.34 J SL	0.41 J SL	ND (1.0) SL	ND (6.0) SL	ND (1.0) SL	ND (50) SL	2.3 J SL	ND (0.50) SL	ND (5.0) SL	0.92 J SL	ND (1.0) SL	ND (0.028) SL	ND (0.50) SL	0.22 J SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	0.22 J SL
	WP-A		4-May-21	WP-A_20210504	ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.57)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.030)	0.37 J	ND (0.57)	ND (0.57)	0.73	ND (0.57)	0.13 J	0.38 J	0.36 J	0.20 J	1.6
AOI 6	B-39		5-May-21	B-39_SL_20210505	1.3 SL	2.2 SL	ND (1.0) SL	2.7 J SL	ND (1.0) SL	ND (50) SL	9.3 SL	ND (0.50) SL	ND (5.0) SL	3.5 J SL	ND (1.0) SL	ND (0.029) SL	0.33 J SL	2.1 SL	ND (0.50) SL	0.89 SL	0.91 SL	0.31 J SL	0.28 J SL	0.28 J SL	0.12 J SL	0.40 J SL
	B-43		4-May-21	B-43_20210504	0.31 J	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	6.4	ND (0.55)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.55)	ND (0.55)	ND (0.55)	0.51 J	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.52)
	B-132D		4-May-21	B-132D_20210504	0.21 J	ND (1.0)	ND (1.0)	ND (6.0)	2.1	ND (50)	ND (5.0)	0.13 J	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.50)	ND (0.50)	0.27 J	0.14 J	0.11 J	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.52)
	B-150		5-May-21	B-150_SL_20210505	420,000 SL	60,000 SL	430 SL	1,900 SL	ND (100) SL	ND (5,000) SL	9,000 SL	38 SL	ND (500) SL	ND (500) SL	ND (100) SL	ND (0.030) SL	0.20 J SL	1.2 SL	2.0 SL	0.64 SL	ND (0.50) SL	0.24 J SL	0.22 J SL	0.22 J SL	0.10 J SL	0.17 J SL
	B-156		5-May-21	B-156_SL_20210505	210 SL	45 SL	3.8 J SL	21 J SL	ND (5.0) SL	ND (250) SL	100 SL	ND (0.50) SL	ND (25) SL	3.9 J SL	ND (5.0) SL	ND (0.029) SL	0.42 J SL	2.1 SL	ND (0.50) SL	1.2 SL	0.57 SL	0.45 J SL	0.30 J SL	0.29 J SL	ND (0.50) SL	ND (0.52) SL
	B-165		5-May-21	B-165_20210505	7.0	0.50 J	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	0.28 J	ND (0.55)	4.4 J	2.4 J	ND (1.0)	ND (0.029)	ND (0.55)	ND (0.55)	ND (0.55)	0.22 J	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	0.073 J
	B-169		29-Apr-21	B-169_20210429	ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.55)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	1.6
	B-170		29-Apr-21	B-170_20210429	0.89 J	0.39 J	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	6.1	29	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.56)	2.2	1.1	ND (0.56)	0.34 J	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.52)
	B-172		7-May-21	B-172_20210507	7.5	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.56)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.028)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	0.10 J
	URS-5		6-May-21	URS-5_20210506	3,900	8,700	680	3,300	ND (5.0)	80 J	26	280	230	68	ND (5.0)	ND (0.029)	ND (0.53)	14	26	2.4	3.4	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.52)
	C-134D		30-Apr-21	C-134D_20210430	ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.55)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	0.13 J
AOI 7	C-106		10-May-21	C-106_SL_20210510	1.1 SL	0.68 J SL	ND (1.0) SL	ND (6.0) SL	ND (1.0) SL	ND (50) SL	0.44 J SL	ND (0.51) SL	ND (5.0) SL	ND (5.0) SL	ND (1.0) SL	ND (0.028) SL	ND (0.51) SL	0.62 SL	0.79 SL	0.42 J SL	0.23 J SL	ND (0.51) SL	ND (0.51) SL	ND (0.51) SL	ND (0.51) SL	ND (0.52) SL
	C-129D		13-May-21	C-129D_20210513	ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	0.74 J	120	ND (5.0)	ND (0.56)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.028)	ND (0.56)	ND (0.56)	ND (0.56)	0.13 J	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.52)
	C-144D		30-Apr-21	C-144D_20210430	0.69 J	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.54)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.52)
	C-150		14-May-21	C-150_SL_20210514	ND (1.0) SL	0.40 J SL	0.91 J SL	ND (6.0) SL	ND (1.0) SL	12 J SL	2.5 J SL	ND (0.63) SL	2.2 J SL	2.8 J SL	ND (1.0) SL	ND (0.028) SL	ND (0.63) SL	1.3 SL	0.53 J SL	0.26 J SL	0.23 J SL	ND (0.63) SL	ND (0.63) SL	ND (0.63) SL	ND (0.63) SL	0.14 J SL
	C-168		4-May-21	C-168_20210504	ND (1.0)	0.25 J	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	0.67 J	ND (0.51)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	0.88	0.46 J	0.52	3.3	0.23 J	0.68	1.1	1.3	0.55	0.091 J
AOI 8	N-3		15-Apr-21	N-3_20210415	ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	0.24 J	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	0.21 J	ND (0.52)	0.22 J	0.35 J	0.12 J	0.17 J	0.31 J	0.24 J	0.29 J	ND (0.52)
	N-9		14-Apr-21	N-9_20210414	ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	0.34 J	ND (50)	ND (5.0)	ND (0.51)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.52)
	N-30		15-Apr-21	N-30_20210415	1.6	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.52)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)
	N-69		15-Apr-21	N-69_20210415	ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.52)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.030)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)
	N-74		15-Apr-21	N-74_SL_20210415	46 SL	ND (1.0) SL	ND (1.0) SL	ND (6.0) SL	ND (1.0) SL	ND (50) SL	0.26 J SL	ND (0.51) SL	ND (5.0) SL	ND (5.0) SL	ND (1.0) SL	ND (0.029) SL	0.44 J SL	0.19 J SL	ND (0.51) SL	0.87 SL	ND (0.51) SL	0.24 J SL	0.18 J SL	0.10 J SL	ND (0.51) SL	ND (0.52) SL
	N-75		14-Apr-21	N-75_20210414	8.2	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	1,100 E	0.82 J	1.0	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.51)	3.0	0.29 J	0.69	0.55	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.52)
	N-82		16-Apr-21	N-82_SL_20210416	670 SL	13 SL	2,400 SL	570 SL	ND (5.0) SL	ND (250) SL	94 SL	3,500 SL	300 SL	78 SL	ND (5.0) SL	ND (0.029) SL	0.72 SL	16 SL	16 SL	2.8 SL	2.9 SL	0.55 SL	0.54 SL	0.54 SL	0.29 J SL	ND (0.52) SL
	N-85		15-Apr-21	N-85_20210415	0.43 J	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	0.42 J	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.56)	0.46 J	0.70	0.20 J	0.19 J	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.52)
	N-98		14-Apr-21	N-98_20210414	3.9	0.33 J	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	0.46 J	ND (0.51)	ND (5.0)	0.96 J	ND (1.0)	ND (0.029)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.52)
	N-112		16-Apr-21	N-112_SL_20210416	ND (5.0) SL	ND (5.0) SL	2.2 J SL	ND (30) SL	ND (5.0) SL	ND (250) SL	1.2 J SL	1.4 SL	ND (25) SL	ND (25) SL	ND (5.0) SL	ND (0.029) SL	ND (0.53) SL	ND (0.53) SL	ND (0.53) SL	0.38 J SL	ND (0.53) SL	ND (0.53) SL	ND (0.53) SL	ND (0.53) SL	ND (0.53) SL	ND (0.52) SL
	N-133		14-Apr-21	N-133_20210414	6,900	ND (50)	ND (50)	ND (300)	ND (50)	ND (2,500)	ND (250)	8.3	ND (250)	ND (250)	ND (50)	ND (0.029)	ND (0.50)	ND (0.50)	0.70	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.52)
	N-151		14-Apr-21	N-151_SL_20210414	0.25 J SL	0.95 J SL	0.69 J SL	26 SL	ND (1.0) SL	ND (50) SL	3.5 J SL	3.1 SL	8.5 SL	2.4 J SL	ND (1.0) SL	ND (0.029) SL	ND (0.51) SL	0.67 SL	ND (0.51) SL	0.67 SL	ND (0.51) SL	ND (0.51) SL	ND (0.51) SL	ND (0.51) SL	ND (0.51) SL	0.20 J SL
	N-152		14-Apr-21	N-152_20210414	ND (5.0)	ND (5.0)	ND (5.0)	ND (30)	ND (5.0)	ND (250)	ND (25)	ND (0.51)	ND (25)	ND (25)	ND (5.0)	ND (0.029)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	0.12 J
	N-152	Field Duplicate	14-Apr-21	DUP-1_20210414	0.78 J	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.51)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	0.11 J
	N-156		14-Apr-21	N-156_20210414	0.35 J	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	15 J	ND (5.0)	0.12 J	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.030)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.52)
	N-157		15-Apr-21	N-157_20210415	100	6.0	18	28	0.37 J	ND (50)	12	ND (0.51)	5.0	12	ND (1.0)	ND (0.029)	ND (0.51)	0.36 J	0.27 J	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.52)
	N-161		15-Apr-21	N-161_20210415	640	240	360	770	ND (5.0)	ND (250)	47	310	130	300	ND (5.0)	0.044	ND (0.52)	0.54	0.30 J	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)
	N-163		15-Apr-21	N-163_20210415	77	2.0	8.2	6.3	ND (1.0)	ND (50)	27	2.5	1.7 J	4.3 J	ND (1.0)	ND (0.029)	ND (0.51)	0.86	0.62	0.21 J	0.18 J	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.52)
	N-164		16-Apr-21	N-164_SL_20210416	2,700 SL	110 SL	490 SL	580 SL	6.3 SL	ND (250) SL	120 SL	290 SL	380 SL	120 SL	ND (5.0) SL	ND (0.028) SL	0.42 J SL	3.7 SL	6.1 SL	1.5 SL	1.5 SL	0.34 J SL	0.33 J SL	ND (0.50) SL	ND (0.50) SL	ND (0.52) SL
	PGW-MW-6		15-Apr-21	PGW-MW-6_20210415	ND (5.0)	ND (5.0)	ND (5.0)	ND (30)	ND (5.0)	ND (250)	ND (25)	0.48 J	ND (25)	ND (25)	ND (5.0)	ND (0.029)	0.21 J	0.23 J	0.18 J	0.47 J	ND (0.55)	0.17 J	0.26 J	0.29 J	0.14 J	ND (0.52)
	PGW-MW-9		15-Apr-21	PGW-MW-9_20210415	17	1.2	43	13	ND (1.0)	ND (50)	100	1.3	20	11	ND (1.0)	ND (0.029)	16	21	9.1	42	8.2	14	17	12	5.4	ND (0.52)
	PGW-MW-21		15-Apr-21	PGW-MW-21_20210415	90	18	150	170	ND (1.0)	ND (50)	41	1,000	77	29	ND (1.0)	ND (0.029)	1.4	100	87	8.3	17	1.7	1.6	1.4	0.52 J	ND (0.52)
	RW-502		15-Apr-21	RW-502_SL_20210415	59 SL	5.5 SL	1.2 SL	15 SL	0.26 J SL	ND (50) SL	43 SL	22 SL	2.7 J SL	2.3 J SL	ND (1.0) SL	ND (0.029) SL	0.71 SL	6.7 SL	11 SL	1.8 SL	1.8 SL	0.59 SL	0.48 J SL	0.27 J SL	0.18 J SL	ND (0.52) SL
	V-MW-2		14-Apr-21	V-MW-2_20210414	36	22	12	44	1.3	ND (50)	16	15	ND (5.0)	7.1	ND (1.0)	0.027 J	0.85	1.3	1.0	1.5	0.36 J	0.43 J	0.71	1.1	0.62	0.15 J
	V-MW-9		15-Apr-21	V-MW-9_20210415	13	4.9	1.7	20	ND (1.0)	ND (50)	25	ND (0.52)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.52)	0.16 J	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)
	V-MW-16		15-Apr-21	V-MW-16_20210415	ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.52)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	1.2
AOI 9	MW-1SRTF		11-May-21	MW-1SRTF_SL_20210511	9,800 SL	200 SL	2,100 SL	2,800 SL	350 SL	1,100 SL	460 SL	290 SL	850 SL	290 SL	2.4 J SL	ND (0.028) SL	0.16 J SL	0.51 SL	0.98 SL	0.41 J SL	0.24 J SL	0.13 J SL	0.15 J SL	0.13 J SL	ND (0.50) SL	0.63 SL
	S-78SRTF		12-May-21	S-78SRTF_20210512	2,500	90	70	320	15	1,500	52	4.0	6.9 J	9.2 J	ND (5.0)	ND (0.029)	ND (0.57)	0.68	0.48 J	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	2.4
	S-110DSRTF		11-May-21	S-110DSRTF_20210511	0.27 J	ND (1.0)	ND (1.0)	ND (6.0)	31	30 J	ND (5.0)	ND (0.55)	ND (5.0)	ND (5.0)	3.6	ND (0.029)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	0.30 J
	S-112SRTF		11-May-21	S-112SRTF_20210511	470	9.0	22	26 J	15	64 J	13 J	4.8	19 J	4.3 J	ND (5.0)	ND (0.029)	0.14 J	3.5	1.1	0.22 J	0.40 J	0.11 J	ND (0.50)	ND (0.50)	ND (0.50)	0.55
	S-113SRTF		11-May-21	S-113SRTF_20210511	59	2.8	1.1	ND (6.0)	3.8	ND (50)	30	0.24 J	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	0.12 J
	S-114SRTF		3-May-21	S-114SRTF_20210503	2,200	7,400	1,000	8,400	5.9 J	ND (500)	89	200	1,100	350	ND (10)	ND (0.029)	ND (0.51)	0.44 J	0.30 J	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	1.7
	S-115DSRTF		3-May-21	S-115DSRTF_20210503	1.8	4.4	0.58 J	5.2 J	23	ND (50)	ND (5.0)	ND (0.50)	ND (5.0)	0.35 J	0.36 J	ND (0.029)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.52)
	S-115SRTF		11-May-21	S-115SRTF_20210511	1,200	100	140	96	ND (5.0)	ND (250)	120	18	ND (25)	26	2.1 J	ND (0.028)	ND (0.56)	0.35 J	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	3.5
	S-118DSRTF		3-May-21	S-118DSTRF_20210503	0.70 J	1.7	ND (1.0)	2.4 J	81	25 J	0.28 J	ND (0.50)	ND (5.0)	ND (5.0)	0.31 J	ND (0.029)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.52)
	S-122SRTF		14-May-21	S-122SRTF_SL_20210514	9,800 SL	7,100 SL	1,300 SL	7,300 SL	22 SL	320 SL	220 J SL	57 B SL	520 SL	160 SL	ND (1.0) SL	ND (0.028) SL	ND (0.53) SL	2.4 SL	2.0 SL	0.34 J SL	0.33 J SL	ND (0.53) SL	ND (0.53) SL	ND (0.53) SL	ND (0.53) SL	3.6 SL
	S-139SRTF		11-May-21	S-139SRTF_20210511	1.1	0.75 J	ND (1.0)	2.7 J	37	270	ND (5.0)	ND (0.54)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.028)	ND (0.54)	ND (0.54)	0.88	0.39 J	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	0.30 J
	S-142SRTF		12-May-21	S-142SRTF_20210512	1.6	ND (1.0)	ND (1.0)	ND (6.0)	100	29 J	ND (5.0)	ND (0.59)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.028)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.52)
	S-143SRTF		11-May-21	S-143SRTF_20210511	0.26 J	ND (1.0)	ND (1.0)	ND (6.0)	74	ND (50)	ND (5.0)	ND (0.56)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.52)
	S-146SRTF		12-May-21	S-146SRTF_20210512	0.46 J	ND (1.0)	ND (1.0)	ND (6.0)	3.6	ND (50)	ND (5.0)	ND (0.57)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.52)
	S-147SRTF		12-May-21	S-147SRTF_20210512	0.28 J	ND (1.0)	ND (1.0)	ND (6.0)	2.8	ND (50)	ND (5.0)	ND (0.57)	ND (5.0)	ND (5.0)	0.74 J	ND (0.028)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	0.29 J
	S-148SRTF		13-May-21	S-148SRTF_20210513	ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	2.7	ND (50)	ND (5.0)	ND (0.58)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.028)	ND (0.58)	ND (0.58)	ND (0.58)	0.14 J	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	0.19 J
	S-149SRTF		13-May-21	S-149SRTF_20210513	0.29 J	ND (1.0)	ND (1.0)	ND (6.0)	3.8	ND (50)	ND (5.0)	0.13 J	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.028)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	0.21 J
	S-150SRTF		13-May-21	S-150SRTF_20210513	0.92 J	ND (1.0)	ND (1.0)	ND (6.0)	85	130	ND (5.0)	0.12 J	ND (5.0)	ND (5.0)	1.1	ND (0.028)	ND (0.55)	ND (0.55)	ND (0.55)	0.12 J	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	0.38 J

See notes on last page.

Table 3
Sitewide 2021 Annual Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

					BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
AOI 10	W-1		3-May-21	W-1_SL_20210503	ND (1.0) SL	ND (1.0) SL	ND (1.0) SL	ND (6.0) SL	0.39 J SL	ND (50) SL	0.38 J SL	ND (0.50) SL	ND (5.0) SL	ND (5.0) SL	ND (1.0) SL	ND (0.029) SL	0.27 J SL	0.82 SL	0.27 J SL	0.62 SL	0.21 J SL	0.15 J SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.52) SL
	W-12		3-May-21	W-12_SL_20210503	ND (1.0) SL	ND (1.0) SL	ND (1.0) SL	ND (6.0) SL	ND (1.0) SL	ND (50) SL	ND (5.0) SL	ND (0.51) SL	ND (5.0) SL	ND (5.0) SL	ND (1.0) SL	ND (0.029) SL	ND (0.51) SL	ND (0.51) SL	ND (0.51) SL	ND (0.51) SL	ND (0.51) SL	ND (0.51) SL	ND (0.51) SL	ND (0.51) SL	ND (0.51) SL	0.30 J SL
	W-13		3-May-21	W-13_20210503	ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	0.49 J	18 J	ND (5.0)	ND (0.50)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.52)
	W-32		4-May-21	W-32_SL_20210504	4.2 SL	0.24 J SL	ND (1.0) SL	ND (6.0) SL	ND (1.0) SL	19 J SL	1.4 J SL	ND (0.50) SL	1.8 J SL	ND (5.0) SL	ND (1.0) SL	ND (0.028) SL	ND (0.50) SL	2.6 SL	1.1 SL	0.72 SL	0.68 SL	ND (0.50) SL	0.48 J SL	0.22 J SL	0.31 J SL	0.65 SL
	W-32D		3-May-21	W-32D_20210503	1.0	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	66	ND (5.0)	ND (0.53)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	0.48 J	0.50 J	0.27 J	1.1	0.28 J	0.36 J	0.38 J	ND (0.53)	ND (0.53)	ND (0.52)
	W-33		4-May-21	W-33_20210504	9.4	1.3	0.86 J	3.6 J	ND (1.0)	ND (50)	0.69 J	1.1	1.3 J	0.33 J	ND (1.0)	ND (0.029)	ND (0.50)	1.7	ND (0.50)	0.48 J	0.34 J	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	0.48 J
BELMONT	MW-38		22-Apr-21	MW-38_20210422	0.62 J	ND (1.0)	ND (1.0)	ND (6.0)	2.0	13 J	ND (5.0)	0.96	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.51)	ND (0.51)	ND (0.51)	0.37 J	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.52)
	MW-44		23-Apr-21	MW-44_20210423	11,000	390	1,400	7,900	160	1,400	55	330	1,500	450	ND (10)	ND (0.029)	4.5	4.6	8.7	6.5	1.0	1.9	3.0	4.8	2.0	5.4
	OW-20		23-Apr-21	OW-20_20210423	19,000	10,000	1,200	15,000	2,700	20,000 J	1,600 J	1,300	2,000 J	720 J	ND (1,000)	ND (0.028)	24	57	130	82	36	25	17	21	6.8	2.8
	RW-26		22-Apr-21	RW-26_20210422	440	6.7	170	170	350	18,000 E	22 J	1,900	100	27	ND (5.0)	ND (0.029)	0.11 J	13	12	1.1	2.0	0.11 J	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.52)
	RW-26	Field Duplicate	22-Apr-21	DUP-2_20210422	440	6.8	180	170	350	18,000 E	23 J	1,800	100	28	ND (5.0)	ND (0.029)	0.11 J	13	12	1.0	1.9	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.52)
	S-394		23-Apr-21	S-394_20210423	19	0.56 J	1.4	8.2	ND (1.0)	ND (50)	ND (5.0)	0.42 J	1.2 J	0.45 J	ND (1.0)	ND (0.029)	2.1	ND (0.54)	1.4	2.8	ND (0.54)	0.69	1.6	2.9	1.3	0.99
	S-395		22-Apr-21	S-395_20210422	0.45 J	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	0.52 J	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	0.28 J

Notes:

15.2	Concentration was detected.
ND (0.03)	Analyte was not detected at a concentration greater than the laboratory reporting limit.
B	Indicates the analyte is detected in the associated blank as well as in the sample.
E	Indicates compounds whose concentrations exceed the calibration range of the instrument.
J	Indicates an estimated value.
SL	Sample was collected below LNAPL.
µg/L	Micrograms per liter

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 1	ARCO-1	13-Jul-11	ARCO-1_07132011		2,400	350	690	2,400	ND (5)	-	77	220	610	200	ND (5)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1.0)
		10-Jul-12	ARCO 1_071012		840	84	120	540	ND (3)	-	79	6	260	110	ND (3)	ND (0.0097)	0.1 J	3	4	0.3 J	0.4 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.19 J
		3-Jun-14	ARCO-1		242	25.6	48.0	110	ND (5.0)	-	109	ND (0.10)	123	77.5	ND (5.0)	ND (0.020)	0.319	3.44	3.37	0.660	ND (0.10)	0.151	ND (0.10)	0.119	ND (0.10)	1.4 J
		16-Dec-14	ARCO-1-20141216		293	37.1	14.3	44.3	ND (1.0)	-	51.3	ND (0.11)	12.4	14.0	ND (1.0)	ND (0.020)	ND (0.11)	1.93	1.06	0.285	0.212	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (3.0)
		18-Aug-16	ARCO-1-20160818-WG		520	ND (100)	ND (20.0)	ND (60.0)	ND (20.0)	-	55.6	3.90	ND (20.0)	ND (20.0)	ND (20.0)	ND (0.0100) *	0.0632	2.16	1.18	0.338	0.262	0.0540	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		18-Aug-16	ARCO-1-20160818-WG-DUP	Field Duplicate	272	41.2	5.34	32.3	ND (5.00)	-	49.2	1.86	ND (5.00)	5.03	ND (5.00)	ND (0.0100) *	0.0634	1.78	0.965	0.328	0.220	0.0545	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		11-Oct-16	ARCO-1-20161011-WG		294	ND (50.0)	ND (10.0)	44.0	ND (10.0)	-	52.5	3.39	ND (10.0)	ND (10.0)	ND (10.0)	ND (0.0100) *	ND (0.0500)	1.40	0.845	ND (0.0500)	0.117	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		25-Jun-18	ARCO_1_20180625		327	21.6	7.81	27.6	ND (1.00)	-	54.7	3.47	ND (1.00)	2.69	ND (1.00)	ND (0.0100)	ND (0.100)	1.67	1.46	ND (0.100)	0.160	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (2.00)
		8-Jul-19	ARCO-1_20190708		420	49	12	48	ND (0.2)	11 J	48	4	2 J	7	ND (2)	ND (0.0094)	ND (0.09)	1	1	ND (0.09)	0.1 J	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (1.1)
		7-May-21	ARCO-1_20210507		290	27	3.9 J	23 J	ND (5.0)	ND (250)	29	0.75	ND (25)	2.8 J	ND (5.0)	ND (0.028)	ND (0.51)	0.51	0.40 J	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	0.10 J
	ARCO-1D	13-Jul-11	ARCO-1D_07132011		290	5	5	40	2	-	2	ND (5)	13	9	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1.0)
		10-Jul-12	ARCO 1D_071012		380	2	9	8	2	-	6	0.4 J	10	ND (0.5)	ND (0.5)	ND (0.0098)	ND (0.1)	0.2 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.085 J
		1-Apr-13	A-1D_40113		1,450	3.0	16.6	0.64 J	2.7	-	21.4	ND (0.10)	8.2	1.2 J	ND (1.0)	ND (0.020)	ND (0.10)	0.238	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	4.0
		21-May-14	ARCO-1D		378	1.1	0.84 J	0.77 J	6.7	-	2.7	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	2.7 J
		5-Dec-14	ARCO-1D-20141205		252	0.36 J	0.47 J	ND (1.0)	8.1	-	1.8	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	0.115	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	1.8 J
		19-Aug-16	ARCO-1D-20160819-WG		593	ND (5.00)	ND (1.00)	ND (3.00)	2.01	-	7.47	0.338	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	0.394	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		11-Oct-16	ARCO-1D-20161011-WG		495	ND (50.0)	ND (10.0)	ND (30.0)	ND (10.0)	-	ND (10.0)	0.384	12.1	ND (10.0)	ND (10.0)	ND (0.0100) *	ND (0.0500)	0.552	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		25-Jun-18	ARCO_1D_20180625		276	1.22	ND (1.00)	ND (3.00)	30.4	-	1.61	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		3-Jul-19	ARCO-1D_20190703		3	ND (0.2)	ND (0.2)	ND (0.5)	66	ND (10)	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0094)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		3-Jul-19	DUP-6_20190703	Field Duplicate	3	ND (0.2)	ND (0.2)	ND (0.5)	66	ND (10)	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0094)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		7-May-21	ARCO-1D_20210507		150	0.62 J	ND (1.0)	ND (6.0)	84	ND (50)	0.76 J	ND (0.53)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.52)
		7-May-21	DUP-7_20210507	Field Duplicate	170	0.74 J	ND (1.0)	ND (6.0)	74	ND (50)	0.89 J	ND (0.51)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.028)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.52)
	ARCO-2	13-Jul-11	ARCO-2_07132011		470	54	300	290	ND (2)	-	85	97	140	19	ND (2)	ND (0.029)	ND (5)	ND (5)	6	ND (5)	-	-	-	-	-	ND (1.0)
		10-Jul-12	ARCO 2_071012		380	49	200	310	ND (5)	-	110	32	93	29	ND (5)	ND (0.0097)	1	10	14	2	2	0.7	0.4 J	0.4 J	0.2 J	2.2
		3-Jun-14	ARCO-2		517	48.5	70.5	118	0.45 J	-	68.6	3.56	3.0	4.1	ND (1.0)	ND (0.020)	ND (0.10)	1.62	1.10	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		16-Dec-14	ARCO-2-20141216		362	34.6	45.0	79.7	ND (1.0)	-	32.0	3.97	1.2 J	4.6	ND (1.0)	ND (0.020)	ND (0.10)	2.20	1.65	ND (0.10)	0.177	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		18-Aug-16	ARCO-2-20160818-WG		372	38.6 MI	16.5	48.9	ND (1.00)	-	29.4 MI	7.04	ND (1.00)	3.36 MI	ND (1.00)	ND (0.0100) *	ND (0.0500)	2.01	1.49	0.0603	0.167	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		11-Oct-16	ARCO-2-20161011-WG		375	ND (50.0)	59.3	90.0	ND (10.0)	-	74.2	6.82	ND (10.0)	ND (10.0)	ND (10.0)	ND (0.0100) *	ND (0.0500)	1.65	1.35	ND (0.0500)	0.132	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		25-Jun-18	ARCO_2_20180625		301	36.9	66.7	58.2	ND (1.00)	-	60.5	10.6	ND (1.00)	3.82	ND (1.00)	ND (0.0101)	ND (0.0500)	2.10	1.56	ND (0.0500)	0.143	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		8-Jul-19	ARCO-2_20190708		370	47	25	87	ND (0.2)	13 J	84	3	0.3 J	6	ND (2)	ND (0.0095)	ND (0.1)	2	2	ND (0.1)	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		8-Jul-19	DUP-7_20190708	Field Duplicate	370	47	26	86	ND (0.2)	13 J	84	2	0.3 J	6	ND (2)	ND (0.0094)	ND (0.1)	1	1	ND (0.1)	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		7-May-21	ARCO-2_20210507		320	40	18	76	ND (5.0)	ND (250)	81	1.6	ND (25)	5.8 J	ND (5.0)	ND (0.028)	ND (0.52)	1.8	1.4	ND (0.52)	0.12 J	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	0.10 J
	ARCO-3	13-Jul-11	ARCO-3_07132011		2,700	150	480	400	6	-	73	180	150	160	ND (5)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1.0)
		10-Jul-12	ARCO 3_071012		2,500	120	84	200	7	-	67	88	33	38	ND (3)	ND (0.0097)	ND (0.1)	3	3	0.2 J	0.3 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.24 J
		3-Jun-14	ARCO-3		2,250	109	90.5	193	ND (10)	-	86.5	45.2	26.7	33.4	ND (10)	ND (0.020)	ND (0.10)	2.08	1.95	0.130	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		16-Dec-14	ARCO-3-20141216		2,430	126	65.7	179	ND (20)	-	54.5	32.7	18.7 J	18.5 J	ND (20)	ND (0.020)	ND (0.10)	1.47	0.968	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		18-Aug-16	ARCO-3-20160818-WG		1,580	96.2	34.1	118	ND (5.00)	-	42.8	32.2	9.40	16.4	ND (5.00)	ND (0.0100) *	ND (0.0500)	1.89	1.32	0.0623	0.178	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		11-Oct-16	ARCO-3-20161011-WG		1,050	95.7	45.9	142	ND (5.00)	-	66.1	24.0	14.6	16.4	ND (5.00)	ND (0.0100) *	ND (0.0500)	1.39	1.02	ND (0.0500)	0.126	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		26-Jun-18	ARCO_3_20180626		2,080	108	46.0	122	ND (1.00)	-	68.0	1.23	11.0	14.8	ND (1.00)	ND (0.0101)	ND (0.0500)	1.61	0.827	ND (0.0500)	0.153	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		8-Jul-19	ARCO-3_20190708		2,200	120	76	150	ND (1)	52 J	73	24	17 J	23 J	ND (10)	ND (0.0094)	ND (0.09)	2	1	ND (0.09)	0.2 J	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (1.1)
		7-May-21	ARCO-3_20210507		1,800	95	43	97	ND (5.0)	ND (250)	71	14	7.2 J	12 J	ND (5.0)	ND (0.028)	ND (0.52)	1.5	1.1	ND (0.52)	0.12 J	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	0.22 J

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE µg/L	TOLUENE µg/L	ETHYLBENZENE µg/L	XYLENES, TOTAL (DIMETHYLBENZENE) µg/L	METHYL TERTIARY BUTYL ETHER µg/L	TERT-BUTYL ALCOHOL µg/L	ISOPROPYLBENZENE (CUMENE) µg/L	NAPHTHALENE µg/L	1,2,4-TRIMETHYLBENZENE µg/L	1,3,5-TRIMETHYLBENZENE µg/L	1,2-DICHLOROETHANE (EDC) µg/L	1,2-DIBROMOETHANE (EDB) µg/L	CHRYSENE µg/L	FLUORENE µg/L	PHENANTHRENE µg/L	PYRENE µg/L	ANTHRACENE µg/L	BENZO(A)ANTHRACENE µg/L	BENZO(A)PYRENE µg/L	BENZO(B)FLUORANTHENE µg/L	BENZO(G,H,I)PERYLENE µg/L	LEAD, Dissolved µg/L
AOI 1	S-41	19-Oct-04	S-41		70	5.5	ND (1.8)	ND (3.2)	490	-	63	ND (3.6)	-	-	ND (1.5)	ND (0.0020)	ND (0.14)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	ND (5.0)
		22-Apr-05	S41-042205		65	ND (50)	ND (50)	ND (50)	530	-	ND (50)	ND (10)	-	-	ND (50)	ND (0.029)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	-
		27-Mar-09	S-41_032709		44	7	12	28	20	-	98	ND (5)	-	-	ND (1)	ND (0.03)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		23-Jun-09	S-41		15	3	4	4	45	-	100	ND (5)	-	-	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-
		17-Sep-09	S-41_091709		37	11	ND (5)	6	28	-	46	ND (5)	-	-	ND (5)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1.0)
		13-Nov-09	S-41		3	3	3	1 J	56	-	120	ND (1)	ND (0.5)	0.7 J	ND (0.5)	ND (0.0098)	ND (0.057)	-	1.9	ND (0.095)	-	-	-	-	-	0.22 J
		9-Dec-09	S-41_120909		12	5	2	5	40	-	29	ND (5)	-	-	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1.0)
		11-Nov-10	S-41		14	3	2	3	23	-	41	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	ND (1)	2 J	1 J	ND (1)	-	-	-	-	-	0.20 J
		22-Nov-11	S-41		4	2	3	1	25	-	110	ND (0.95)	0.5 J	0.5 J	ND (0.5)	ND (0.0097)	ND (0.076)	5.8	1.4	ND (0.095)	-	-	-	-	-	0.22 J
		19-Jul-12	S-41_071912		19	3	1 J	3	13	-	35	ND (0.09)	ND (1)	ND (1)	ND (1)	ND (0.0097)	ND (0.09)	2	0.8	ND (0.09)	0.1 J	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	0.22 J
		2-Apr-13	S-41		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1)
		2-Apr-13	S-41_040213		1.3 J	1.1 J	3.1	0.65 J	17.4	-	101	ND (0.10)	ND (4.0)	ND (4.0)	ND (2.0)	ND (0.020)	ND (0.10)	1.79	1.33	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	-
		23-May-14	S-41		2.2	1.5	1.1	2.6	9.6	-	47.7	ND (0.10)	ND (2.0)	0.36 J	ND (1.0) J	ND (0.020)	ND (0.10)	1.45	0.868	ND (0.10)	0.117	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		8-Dec-14	S-41-20141208		0.93	2.1	1.6	1.3	6.5	-	91.0	ND (0.10)	ND (2.0)	0.23 J	ND (1.0)	ND (0.020)	ND (0.10)	2.21	1.77	ND (0.10)	0.192	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	2.2 J
		18-May-15	S-41_20150518		6	2	0.9 J	3	5	-	20	1	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.1)	2	1	ND (0.1)	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.50 J
		10-May-16	S-41-20160510		ND (5)	ND (5)	ND (5)	ND (5)	6	-	28	2	ND (10)	ND (10)	ND (5)	ND (0.029)	ND (0.5)	2	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
		16-May-17	S-41-20170516		ND (3)	ND (3)	ND (3)	ND (3)	4 J	-	70	0.8	ND (3)	ND (3)	ND (3)	ND (0.0095)	ND (0.1)	0.7	0.3 J	ND (0.1)	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.15 J
		21-Jun-18	S-41_20180621		ND (1.00)	1.48	ND (1.00)	ND (3.00)	ND (1.00)	-	106	1.38	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	2.49	0.314	0.0519	0.178	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
	S-42I	19-Oct-04	S-42I (formerly S-42)		ND (1.0)	ND (5.0)	ND (5.0)	ND (10)	ND (5.0)	-	ND (5.0)	ND (5.0)	-	-	ND (5.0)	ND (0.020)	ND (0.14)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	ND (5.0)
		15-Apr-05	S42D-041505		ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (5)	ND (10)	-	-	ND (5)	ND (0.028)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	-
		27-Mar-09	S-42I_032709		25	2	7	19	11	-	ND (2)	ND (5)	-	-	3	ND (0.032)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		23-Jun-09	S-42I		6	ND (1)	ND (1)	2	14	-	ND (2)	ND (5)	-	-	4	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-
		17-Sep-09	S-42I_091709		78	20	2	10	ND (1)	-	ND (2)	ND (5)	-	-	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1.0)
		9-Dec-09	S-42I_120909		29	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	-	-	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1.0)
		19-Jul-12	S-42I_071912		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	23	-	ND (0.5)	0.2 J	ND (0.5)	ND (0.5)	4	ND (0.0097)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.034)
		22-May-14	S-42I		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	6.3	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	0.43 J	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	2.5 J
		3-Dec-14	S-42I-20141203		0.48 J	ND (1.0)	ND (1.0)	ND (1.0)	9.6	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	1.7	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		19-Jun-18	S-42I_20180619		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	13.5	ND (5.00)	ND (1.00)	-	ND (1.00)	ND (1.00)	1.01	ND (0.0100) HT	-	-	-	-	-	-	-	-	-	-
		17-Jun-19	S-42I_20190617		0.5 J	ND (0.2)	ND (0.2)	ND (0.5)	7	38	0.7 J	ND (0.09)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (1.1)
		6-May-21	S-42I_20210506		0.24 J	ND (1.0)	ND (1.0)	ND (6.0)	6.6	12 J	ND (5.0)	ND (0.56)	ND (5.0)	ND (5.0)	0.90 J	ND (0.029)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.52)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE µg/L	TOLUENE µg/L	ETHYLBENZENE µg/L	XYLENES, TOTAL (DIMETHYLBENZENE) µg/L	METHYL TERTIARY BUTYL ETHER µg/L	TERT-BUTYL ALCOHOL µg/L	ISOPROPYLBENZENE (CUMENE) µg/L	NAPHTHALENE µg/L	1,2,4-TRIMETHYLBENZENE µg/L	1,3,5-TRIMETHYLBENZENE µg/L	1,2-DICHLOROETHANE (EDC) µg/L	1,2-DIBROMOETHANE (EDB) µg/L	CHRYSENE µg/L	FLUORENE µg/L	PHENANTHRENE µg/L	PYRENE µg/L	ANTHRACENE µg/L	BENZO(A)ANTHRACENE µg/L	BENZO(A)PYRENE µg/L	BENZO(B)FLUORANTHENE µg/L	BENZO(G,H,I)PERYLENE µg/L	LEAD, Dissolved µg/L
AOI 1	S-43	1-Jan-93 DM	S-43		12,000	190	1,300	1,000	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-94 DM	S-43		17,000	1,700	250 J	1,680	-	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (10)	ND (10)	-	-
		28-Dec-95	S-43		12,000	1,200	170	860	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-96 DM	S-43		2,100	110	120	110	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		19-Nov-97	S-43		13,000	210	1,200	1,000	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		12-Nov-98	S-43		6,700	94 J	720	470	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		2-Dec-99	S-43		3,600	ND (100)	ND (100)	250	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		16-Nov-00	S-43		990	ND (100)	ND (100)	ND (200)	ND (100)	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (2)	ND (3)	-	-
		14-Nov-01	S-43		6,100	ND (500)	ND (500)	ND (1,000)	ND (500)	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (2)	ND (3)	-	-
		12-Nov-02	S-43		5,500	170	790	460	-	-	-	-	-	-	-	-	ND (15)	-	-	-	-	ND (13)	ND (10)	ND (14)	-	-
		13-Nov-03	S-43		3,600	130	836	489	18.8	-	-	-	-	-	-	-	ND (2.0)	-	-	-	-	ND (2.0)	ND (2.0)	ND (2.0)	-	-
		19-Oct-04	S-43		720	31	150	90	ND (4.4)	-	39	50	-	-	11	ND (0.020)	ND (0.14)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	ND (5.0)
		21-Apr-05	S43-042105		940	41	160	98	10	-	42	28	-	-	ND (5)	ND (0.029)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	-
		2-May-05	S43-050205		820	35	160	100	ND (20)	-	36	35	-	-	ND (20)	ND (0.029)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	-
		14-Sep-05	S-43_091405		740	40	180	89	10	-	42	34	-	-	-	-	-	ND (5)	ND (5)	-	-	-	-	-	-	-
		8-Nov-05	S-43_11_8_2005		5,520 D	212	1,090	716	20	-	-	208	-	-	119	ND (0.02)	ND (0.1)	1.1	1	ND (0.1)	-	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-
		30-Nov-06	S-43		890	32	48	34	7.0	-	13	9.0	-	-	ND (1.0)	ND (0.0099)	1.0 J	ND (1.0)	2.0 J	3.0 J	-	-	-	-	-	0.2 J
		14-Sep-07	S-43_091407		1,200	69	320	220	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		5-Dec-07	S-43		15	1.0	3.0	3.0	-	-	2.0 J	1.0 J	-	-	ND (0.5)	ND (0.0096)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	0.40 J
		7-Nov-08	S-43_110708		140	15	30	20	4	-	32	6	8	5	ND (0.5)	ND (0.0098)	ND (1)	-	ND (1)	ND (1)	-	-	-	-	-	7.7
		27-Mar-09	S-43_032709		1,300	98	370	290	5	-	42	71	-	-	ND (2)	ND (0.03)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		23-Jun-09	S-43		1,600	90	520	350	7	-	52	110	-	-	ND (5)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-
		17-Sep-09	S-43_091709		590	34	140	100	ND (5)	-	26	32	-	-	ND (5)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1.0)
		17-Nov-09	S-43		860	59	200	210	6	-	40	61	140	71	ND (0.5)	ND (0.0098)	0.19	-	0.64	0.44	-	-	-	-	-	0.37 J
		9-Dec-09	S-43_120909		220	21	110	92	1	-	19	21	-	-	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1.0)
		11-Nov-10	S-43		850	91	410	340	9	-	76	110	210	93	ND (1)	ND (0.0096)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	0.29 J
		22-Nov-11	S-43		29	3	19	16	ND (0.5)	-	4	16	11	2 J	ND (0.5)	ND (0.0099)	0.95	2.2	1.9	1.1	-	-	-	-	-	2.6
		19-Jul-12	S-43_071912		260	36	190	110	3	-	30	51	75	38	ND (0.5)	ND (0.0097)	0.4 J	1	1	0.5	0.1 J	0.3 J	0.3 J	0.5 J	0.2 J	8.7
		2-Apr-13	S-43		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1)
		2-Apr-13	S-43_040213		371	52.7	222	78.9	2.7	-	31.7	28.2	74.5	44.5	ND (2.5)	ND (0.020)	ND (0.10)	0.668	0.330	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	-
		27-May-14	S-43		44.3	7.4	13.7	9.5	4.5	-	55.4	1.66	2.9	1.8 J	ND (1.0)	ND (0.020)	ND (0.10)	1.14	0.370	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	1.5 J
		12-Dec-14	S-43-20141212		36.6	15.2	33.0	20.9	4.4	-	69.2	7.52	6.6	5.2	ND (1.0)	ND (0.020)	ND (0.10)	3.27	1.56	0.122	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		18-May-15	S-43_20150518		50	21	52	34	5	-	68	29	19	14	ND (0.5)	ND (0.0097)	0.4 J	5	5	0.6	0.2 J	0.3 J	0.3 J	0.5 J	0.3 J	0.11 J
		10-May-16	S-43-20160510		11	7	3	7	5	-	56	1	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (0.5)	4	2	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)

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Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 1	S-44	18-Oct-04	S-44		1,700	37	16	28	19	-	51	ND (10)	-	-	ND (5.0)	0.058	ND (0.16)	ND (11)	ND (11)	ND (11)	-	-	-	-	-	ND (5.0)
		21-Apr-05	S44-042105		2,100	52	16	44	34	-	38	ND (10)	-	-	ND (5)	ND (0.029)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	-
		14-Sep-05	S-44_091405		-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5)	ND (5)	-	-	-	-	-	-	-
		14-Sep-07	S-44_091407		1,100	24	28	58	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		27-Mar-09	S-44_032709		620	22	25	65	310	-	23	ND (5)	-	-	ND (1)	ND (0.03)	ND (5)	ND (5)	5	ND (5)	-	-	-	-	-	ND (1)
		23-Jun-09	S-44		1,300	27	18	37	290	-	37	ND (5)	-	-	ND (5)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-
		17-Sep-09	S-44_091709		2,300	130	40	110	250	-	59	ND (5)	-	-	ND (10)	ND (0.030)	ND (5)	5	5	ND (5)	-	-	-	-	-	ND (1.0)
		18-Nov-09	S-44		1,100	27	7	38	270	-	17	ND (1)	0.8 J	4	ND (0.5)	ND (0.0097)	ND (40)	-	2.5	ND (0.099)	-	-	-	-	-	0.14 J
		9-Dec-09	S-44_120909		1,200	25	18	37	260	-	46	ND (5)	-	-	ND (2)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1.0)
		11-Nov-10	S-44		660	20	10	20	260	-	30	ND (1)	ND (5)	ND (5)	ND (5)	ND (0.0096)	ND (1)	2 J	1 J	ND (1)	-	-	-	-	-	0.25 J
		21-Nov-11	S-44		850	20	14	24	180	-	38	ND (1.1)	ND (5)	6 J	ND (5)	ND (0.0096)	ND (0.089)	3.4	0.95	ND (0.11)	-	-	-	-	-	0.17 J
		20-Jul-12	S-44_072012		590	13	5	12	180	-	23	1	ND (3)	ND (3)	ND (3)	ND (0.0096)	0.2 J	3	2	0.3 J	0.3 J	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	0.38 J
		3-Apr-13	S-44		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1)
		3-Apr-13	S-44_040313		450	14.3	7.8	16.5	146	-	53.3	ND (0.10)	37.1	1.8 J	ND (4.0)	ND (0.020)	ND (0.10)	1.33	0.611	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	-
		27-May-14	S-44		575	22.5	9.1	28.6	144	-	44.8	ND (0.10)	0.68 J	2.4	ND (1.0)	ND (0.020)	ND (0.10)	1.18	0.687	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		15-Dec-14	S-44-20141215		260	11.6	3.6	17.2	134	-	23.0	ND (0.10)	0.45 J	2.3	ND (1.0)	ND (0.020)	ND (0.10)	1.47	0.956	ND (0.10)	ND (0.10)	ND (0.10) J	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		18-May-15	S-44_20150518		340	16	5	20	110	-	34	3	0.6 J	2	ND (0.5)	ND (0.0097)	0.2 J	4	4	0.3 J	0.6	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.26 J
		11-May-16	S-44-20160511		310	14	ND (5)	19	120	-	14	1	ND (10)	ND (10)	ND (5)	ND (0.029)	ND (0.5)	2	0.6	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
		11-May-16	S-44-20160511DUP	Field Duplicate	310	14	ND (5)	17	120	-	14	1	ND (10)	ND (10)	ND (5)	ND (0.029)	ND (0.5)	2	0.7	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
		16-May-17	S-44-20170516		130	7	3 J	7	78	-	27	ND (0.1)	ND (3)	23	ND (3)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.19 J
		22-Jun-18	S-44_20180622		231	11.2	4.34	16.6	94.3	-	51.3	0.794	ND (1.00)	1.64	ND (1.00)	ND (0.0100)	ND (0.0500)	2.08	1.42	ND (0.0500)	0.0841	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		18-Jun-19	S-44_20190618		220	12	4	19	84	3,000	38	ND (0.09)	0.4 J	2 J	ND (2)	ND (0.0096)	ND (0.09)	1	1	ND (0.09)	0.1 J	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (1.1)
		5-May-21	S-44_20210505		150	8.8	3.1 J	12 J	54	2,500	31	ND (0.58)	ND (25)	ND (25)	ND (5.0)	ND (0.029)	ND (0.58)	0.15 J	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.52)
		5-May-21	DUP-6_20210505	Field Duplicate	150	7.9	2.7 J	9.8 J	54	2,600	24 J	ND (0.59)	ND (25)	ND (25)	ND (5.0)	ND (0.029)	ND (0.59)	0.20 J	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.52)

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Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE µg/L	TOLUENE µg/L	ETHYLBENZENE µg/L	XYLENES, TOTAL (DIMETHYLBENZENE) µg/L	METHYL TERTIARY BUTYL ETHER µg/L	TERT-BUTYL ALCOHOL µg/L	ISOPROPYLBENZENE (CUMENE) µg/L	NAPHTHALENE µg/L	1,2,4-TRIMETHYLBENZENE µg/L	1,3,5-TRIMETHYLBENZENE µg/L	1,2-DICHLOROETHANE (EDC) µg/L	1,2-DIBROMOETHANE (EDB) µg/L	CHRYSENE µg/L	FLUORENE µg/L	PHENANTHRENE µg/L	PYRENE µg/L	ANTHRACENE µg/L	BENZO(A)ANTHRACENE µg/L	BENZO(A)PYRENE µg/L	BENZO(B)FLUORANTHENE µg/L	BENZO(G,H,I)PERYLENE µg/L	LEAD, Dissolved µg/L
AOI 1	S-50	1-Jan-85 DM	S-50		23,000	ND	5,400	23,000	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-86 DM	S-50		24,000	ND	2,300	1,520	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-88 DM	S-50		24,000	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-94 DM	S-50		290	20 J	160 J	40 J	-	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (10)	ND (10)	-	-
		28-Dec-95	S-50		17,000	1,600	98 J	3,000	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-96 DM	S-50		14	ND (0.3)	ND (0.4)	ND (0.6)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		19-Nov-97	S-50		21,000	210	1,300	2,200	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		12-Nov-98	S-50		18,000	57 J	570	980	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		2-Dec-99	S-50		28,000	ND (1,000)	ND (1,000)	ND (2,000)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		16-Nov-00	S-50		47,000	ND (100)	240	370	590	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (2)	ND (3)	-	-
		27-Nov-01	S-50		53,000	1,400	9	1,300	5,200	-	-	-	-	-	-	-	ND (2)	-	-	-	-	ND (2)	ND (2)	ND (3)	-	-
		30-Nov-06	S-50		42,000	94 J	720	630	99 J	-	ND (50)	170 J	-	-	ND (50)	ND (0.0098)	ND (1.0)	1.0 J	1.0 J	ND (1.0)	-	-	-	-	-	0.15 J
		4-Dec-07	S-50		31,000	86	420	370	-	-	35 J	93 J	-	-	ND (25)	ND (0.0098)	ND (1.0)	ND (1.0)	1.0 J	ND (1.0)	-	-	-	-	-	0.14 J
		12-Jun-08	S-50_061208		880	2	17	7	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		10-Nov-08	S-50		16,000	160	400	1,400	390	-	36 J	110 J	260	90 J	ND (25)	ND (0.0096)	ND (1)	-	1 J	ND (1)	-	-	-	-	-	0.073 J
		23-Mar-09	S-50_032309		21,000	ND (50)	230	91	ND (50)	-	ND (100)	37	-	-	ND (50)	ND (0.03)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		7-May-09	S-50		9,300	ND (20)	120	41	ND (20)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		23-Jun-09	S-50		15,000	21	170	63	26	-	ND (40)	41	-	-	ND (20)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-
		21-Jul-09	S-50_072109		32,000	55	340	210	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		18-Aug-09	S-50_081809		5,300	ND (10)	120	37	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		16-Sep-09	S-50_091609		12,000	ND (20)	140	52	28	-	ND (40)	33	-	-	ND (20)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1.0)
		22-Oct-09	S-50_102209		8,200	ND (20)	140	37	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		19-Nov-09	S-50		4,700	10	75	22	45	-	10 J	37 J	42	17 J	ND (5)	ND (0.0097)	0.18 J	-	0.66	ND (0.098)	-	-	-	-	-	ND (0.050)
		25-Nov-09	S-50_112509		9,500	ND (20)	140	36	59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		10-Dec-09	S-50_121009		12,000	18	140	62	78	-	ND (20)	50	-	-	ND (10)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1.0)
		17-Mar-10	S-50_031710		580	6	18	25	3	-	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		7-Sep-10	S-50_090710		1,200	5	18	6	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		9-Nov-10	S-50_110910		5,500	13	28	12	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		11-Nov-10	S-50		7,600	12	34	11	39	-	7 J	13	8 J	5 J	ND (5)	ND (0.0097)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	0.083 J
		14-Mar-11	S-50_031411		73	45	1	6	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		16-May-11	S-50-05162011		120	11	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		21-Jul-11	S-50_07212011		3,000	7	18	ND (5)	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		21-Nov-11	S-50		190	1	1	0.5 J	1	-	2	3.7	ND (0.5)	0.5 J	ND (0.5)	ND (0.0097)	ND (0.076)	0.20 J	0.083 J	ND (0.095)	-	-	-	-	-	ND (0.080)
		21-Dec-11	S-50_12212011		870	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		24-Jul-12	S-50_072412		130	2	ND (0.5)	2	ND (0.5)	-	2 J	1	1 J	0.9 J	ND (0.5)	ND (0.0098)	ND (0.09)	0.2 J	0.3 J	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.034)
		9-Aug-12	S-50_080912		4,700	32	35	ND (10)	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		18-Oct-12	S-50_101812		6,700	20	59	ND (10)	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		15-Jan-13	S-50_011513		671	8.6	20.4	3.7	ND (2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3-Apr-13	S-50_040313		0.46 J	ND (1.0)	ND (1.0)	0.29 J	ND (1.0)	-	ND (2.0)	ND (0.11)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	0.090 J
		20-May-14	S-50		509	2.2 J	13.5	1.2 J	ND (5.0)	-	4.2 J	2.46	1.2 J	3.1 J	ND (5.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		15-Dec-14	S-50-20141215		2,390	9.8	19.7	ND (5.0)	5.7	-	6.1	4.53	ND (10)	3.9 J	ND (5.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10) J	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		18-May-15	S-50_20150518		2,000	8	34	ND (3)	3 J	-	9 J	16	ND (3)	5 J	ND (3)	ND (0.0097)	ND (0.1)	0.1 J	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.092 J
		10-May-16	S-50-20160510		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (0.5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
		16-May-17	S-50-20170516		5	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.090)
		26-Jun-18	S_50_20180626		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	0.0590	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		11-Jul-19	S-50_20190711		8,300	18	170	15 J	3 J	ND (100)	23 J	99	6 J	10 J	ND (20)	ND (0.0094)	ND (0.09)	0.6	0.7	0.1 J	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	0.1 J	ND (1.1)
		5-May-21	S-50_20210505		2.1	0.48 J	ND (1.0)	ND (6.0)	0.27 J	ND (50)	1.2 J	0.44 J	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.60)	ND (0.60)	0.34 J	0.29 J	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.52)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 1	S-51	19-Apr-05	S-51		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1)
		19-Apr-05	S51-041905		590	ND (100)	ND (100)	190	1,900	-	ND (100)	15	-	-	ND (100)	ND (0.029)	ND (10)	ND (10)	10	ND (10)	-	-	-	-	-	-
		5-Dec-07	S-51		120	10	5.0 J	9.0	-	-	60	ND (5.0)	-	-	ND (3.0)	0.034	ND (10)	22 J	24 J	ND (10)	-	-	-	-	-	0.32 J
		10-Nov-08	S-51		5,000	32	160	38	41	-	14 J	22 J	14 J	14 J	ND (5)	ND (0.0096)	ND (0.9)	-	ND (0.9)	ND (0.9)	-	-	-	-	-	ND (0.050)
		17-Nov-09	S-51		250	8	5	5	120	-	61	1 J	5	7	ND (0.5)	ND (0.0097)	13	-	39	ND (60)	-	-	-	-	-	0.93 J
		11-Nov-10	S-51		140	5	3	3	51	-	55	1 J	ND (0.5)	0.6 J	ND (0.5)	ND (0.0098)	ND (1)	3 J	2 J	ND (1)	-	-	-	-	-	0.98 J
		23-Nov-11	S-51		12	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.96)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	0.52	0.19 J	0.55	0.71	-	-	-	-	-	0.41 J
		2-Apr-13	S-51		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1)
		2-Apr-13	S-51_040213		4.1	3.3	1.4 J	4.4	33.6	-	74.7	ND (0.10)	ND (5.0)	ND (5.0)	ND (2.5)	ND (0.020)	ND (0.10)	2.50	1.47	0.176	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	-
		23-May-14	S-51		9.9	2.6 J	ND (5.0)	2.3 J	36.0	-	62.5	ND (0.10)	ND (10)	ND (10)	ND (5.0) J	ND (0.020)	ND (0.10)	1.51	0.775	0.212	ND (0.10)	ND (0.10)	ND (0.10)	0.130	ND (0.10)	ND (3.0)
		12-Dec-14	S-51-20141212		13.9	2.7	2.6	4.1	20.7	-	51.4	ND (0.10)	0.26 J	ND (2.0)	ND (1.0)	ND (0.020)	0.210	1.62	1.10	0.395	0.183	0.203	0.155	0.185	0.121	1.8 J
		19-May-15	S-51_20150519		5	3	1	4	39	-	79	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.1)	3	1	ND (0.1)	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.099 J
		10-May-16	S-51-20160510		ND (5)	ND (5)	ND (5)	ND (5)	32	-	28	0.6	ND (10)	ND (10)	ND (5)	ND (0.029)	ND (0.5)	2	1	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
	S-52	19-Oct-04	S-52		57	5.3	ND (5.0)	ND (10)	960	-	30	34	-	-	ND (5.0)	ND (0.020)	ND (0.16)	ND (11)	ND (11)	ND (11)	-	-	-	-	-	ND (5.0)
		19-Apr-05	S-52		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1)
		19-Apr-05	S-52-041905		230	ND (50)	ND (50)	ND (50)	1,200	-	ND (50)	ND (10)	-	-	ND (50)	ND (0.029)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	-
		7-Nov-05	S-52		72	ND (10)	ND (10)	11	1,390	-	33	ND (10)	-	-	ND (10)	ND (0.02)	ND (0.01)	1.5	0.8	0.2	-	-	-	-	-	ND (10)
		8-Nov-05	S-52_11_8_2005		72	ND (10)	ND (10)	11	1,390 D	-	-	ND (10)	-	-	ND (10)	ND (0.02)	ND (0.1)	1.5	0.8	0.2	-	ND (0.1)	ND (0.1)	0.1	ND (0.1)	-
		25-Mar-09	S-52_032509		280	3	7	18	1,500	-	24	ND (5)	-	-	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		22-Jun-09	S-52_062209		44	2	ND (1)	2	1,300	-	23	ND (5)	-	-	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1.0)
		16-Sep-09	S-52_091609		51	3	ND (1)	3	1,200	-	32	ND (5)	-	-	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1.0)
		10-Dec-09	S-52_121009		21	3	1	3	1,100	-	33	ND (5)	-	-	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1.0)
		17-Mar-10	S-52_031710		4	2	ND (1)	2	930	-	18	ND (4)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		16-May-11	S-52-05162011		14	27	ND (1)	6	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		25-Jul-12	S-52_072512		1 J	2	ND (1)	ND (1)	420	-	12	ND (0.1)	ND (1)	ND (1)	ND (1)	ND (0.0098)	ND (0.1)	2	0.1 J	0.2 J	0.2 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.43 J
		3-Apr-13	S-52_040313		1.3	1.5	0.24 J	0.72 J	316	-	15.4	ND (0.11)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.11)	0.697	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	0.39 J
		20-May-14	S-52		ND (2.5)	ND (5.0)	ND (2.5)	ND (5.0)	194	-	15.8	ND (0.10)	ND (10)	ND (10)	ND (5.0)	ND (0.020)	ND (0.10)	1.06	0.123	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		9-Dec-14	S-52-20141209		0.26 J	0.40 J	ND (1.0)	0.30 J	133	-	7.3	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	1.09	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	1.6 J
	S-82	8-Nov-05	S-82_11_8_2005		19,900 D	91	248	850	3,100 D	-	-	205	-	-	489	ND (0.02)	0.4	13.4	17	1.9	-	0.7	ND (0.3)	0.3	ND (0.3)	-
	S-85	5-Nov-08	S-85_110508		10	3	160	230	67	-	97	120	100	170	ND (1)	ND (0.0099)	11	-	66	30	17	10	8	8	7	21.8
		24-Feb-09	S-85_022409		12	3	170	220	62	-	120	160	110	160	ND (0.5)	ND (0.0097)	ND (5.5)	16	29	ND (27)	7.1	3.2	2.8	2.6	ND (3.5)	4.4
		26-Jun-09	S-85_062609		13	4	92	29	62	-	130	97	26	160	ND (0.5)	ND (0.010)	0.93 J	17	25	6.2	6.1	1.6	1.4	1.5	2.6	4.3
		9-Sep-09	S-85_090909		11	3	220	310	53	-	140	180	190	290	ND (0.5)	ND (0.0098)	ND (9)	20 J	39 J	23 J	ND (9)	ND (9)	ND (9)	ND (9)	ND (9)	4.2
		20-Nov-09	S-85_112009		8	ND (3)	99	150	36	-	110	150	170	180	ND (3)	ND (0.0099)	5.9	27	46	17	13	4.6	4.0	3.8	3.9	3.6
		8-Mar-10	85_030810		7	1	53	230	12	-	62	90	110	130	ND (0.5)	ND (0.0098)	13	23	41	40	12	8.8	8.1	9.1	8.7	6.2
		5-May-10	S-85_050510		10	2	46	240	22	-	96	120	130	150	ND (0.5)	ND (0.017)	7.3	22	36	17	9.1	4.5	5.0	4.5	4.6	4.2
		22-Jul-10	85_072210		4	0.7 J	10	300	0.9 J	-	12	40	140	110	ND (0.5)	ND (0.0096)	8.3	22	41	19	12	5.3	5.3	5.6	6.3	2.3
		19-Jul-12	S-85_071912		7	2	8	72	21	-	100	39	76	87	ND (0.5)	ND (0.0096)	14	46	76	51	20	18	11	15	7	63.4
		23-May-14	S-85		6.9	ND (5.0)	5.6	56.2	61.9	-	110	ND (0.10)	65.0	72.9	ND (5.0) J	ND (0.020)	2.75	11.2	17.0	12.1	3.63	2.94	3.14	3.21	2.16	10.7
		12-Dec-14	S-85-20141212		3.6	1.9	2.3	28.4	13.4	-	75.7	ND (0.10)	11.2	20.4	ND (1.0)	ND (0.020)	1.29	6.98	9.00	4.99	1.60	1.42	1.10	1.38	0.758	25.6
		25-Jun-19	S-85_20190625		4	2	ND (0.2)	ND (0.5)	ND (0.2)	-	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0094)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
	S-87I	20-May-14	S-87I		0.96	ND (1.0)	ND (1.0)	ND (1.0)	990	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	3.1
		5-Dec-14	S-87I-20141205		0.34 J	ND (1.0)	ND (1.0)	ND (1.0)	1,080	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	2.2 J
		19-Jun-18	S-87I_20180619		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	937	229,000	ND (1.00)	-	ND (1.00)	ND (1.00)	10.5	ND (0.0100) HT	-	-	-	-	-	-	-	-	-	-
		17-Jun-19	S-87I_20190617		0.2 J	ND (0.2)	ND (0.2)	ND (0.5)	380	180,000	ND (0.3)	ND (0.09)	ND (0.3)	ND (0.3)	3 J	ND (0.0094)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (1.1)
		6-May-21	S-87I_20210506		1.9 J	4.5 J	ND (5.0)	ND (30)	250	180,000	ND (25)	ND (0.54)	ND (25)	ND (25)	ND (5.0)	ND (0.028)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.52)

See notes on last page.

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Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 1	S-88	21-Apr-05	S88-042105		28	5	ND (5)	ND (5)	590	-	12	ND (10)	-	-	ND (5)	ND (0.029)	18	ND (10)	ND (10)	17	-	-	-	-	-	-
		5-Dec-06	S-88		22.0	6.0	5.0	1.0 J	81.0	-	24.0	ND (1.0)	-	-	ND (1.0)	ND (0.0099)	3.0 J	8.0	10.0	10.0	-	-	-	-	-	1.3
		14-Dec-07	S-88		5.0	2.0	1.0	ND (0.5)	-	-	13	ND (1.0)	-	-	ND (0.5)	ND (0.0095)	5.0 J	2.0 J	3.0 J	6.0	-	-	-	-	-	1.1
		7-Nov-08	S-88_110708		29	8	2	3	70	-	29	ND (1)	ND (0.5)	0.5 J	ND (0.5)	ND (0.0097)	6	-	11	7	3 J	3 J	2 J	3 J	2 J	3.1
		24-Feb-09	S-88_022409		30	8	4	27	69	-	27	ND (1)	13	9	ND (0.5)	ND (0.0096)	ND (9.0)	5.3	11	ND (16)	3.7	2.3	2.2	3.4	ND (6.0)	2.1
		26-Jun-09	S-88_062609		29	11	4	6	92	-	48	ND (1)	0.8 J	1 J	ND (0.5)	ND (0.010)	0.40	4.4	5.1	ND (0.90)	1.2	0.25	0.20	0.20	0.40	2.1
		8-Sep-09	S-88_090809		35	24	6	28	77	-	42	7	7	7	ND (0.5)	ND (0.0099)	ND (1)	3 J	3 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	1.8
		20-Nov-09	S-88_112009		12	4	3	3	47	-	16	ND (2)	2 J	2 J	ND (1)	ND (0.0097)	1.8 J	3.1 J	3.2	1.6 J	0.98 J	0.45	0.89	1.3	1.9 J	1.5
		8-Mar-10	88_030810		17	8	2	4	100	-	29	ND (1)	0.5 J	1 J	ND (0.5)	ND (0.0097)	2.5	2.7 J	2.4	1.8 J	0.70 J	0.54	0.83	1.7	ND (2.3)	17.9
		5-May-10	S-88_050510		8	3	ND (1)	1 J	170	-	15	ND (2)	ND (1)	ND (1)	ND (1)	ND (0.018)	360	160	240	350	83	90	160	250	330	2,060
		22-Jul-10	88_072210		19	8	2	6	100	-	38	ND (1)	0.9 J	0.8 J	ND (0.5)	ND (0.0097)	ND (9.7)	9.2	11	13	3.8	ND (2.8)	4.3	9.1	ND (20)	0.98 J
		19-Jul-12	S-88_071912		11	4	0.8 J	4	340	-	27	ND (0.09)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	0.5	3	2	0.8	0.7	0.2 J	0.2 J	0.3 J	0.1 J	42.6
		28-May-14	S-88		15.1	7.1	ND (5.0)	4.4 J	186	-	42.1	ND (0.10)	ND (10)	ND (10)	ND (5.0)	ND (0.020)	4.06	4.71	4.39	3.77	1.36	2.37	2.00	2.29	1.00	ND (3.0)
		12-Dec-14	S-88-20141212		11.8	5.1	1.1	4.1	422	-	34.6	ND (0.10)	0.28 J	ND (2.0)	ND (1.0)	ND (0.020)	0.164	2.13	1.73	0.350	0.366	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	2.7 J
	S-98	17-Mar-04	S-98		770	53	560	5,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		12-Oct-04	S-98		670	11	60	330	ND (5.0)	-	24	53	-	-	ND (5.0)	ND (0.020)	ND (0.14)	ND (10)	ND (10)	ND (10)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (5.0)
		22-Apr-05	S98-042205		580	ND (25)	140	1,000	ND (25)	-	37	110	-	-	ND (25)	ND (0.029)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	-
		23-Feb-09	S-98_022309		2,000	78	1,400	7,800	10	-	140	800	2,300	1,100	ND (5)	ND (0.0099)	ND (11)	59	91	ND (110)	22	ND (4.5)	2.3	2.0	2.8 J	4.9
		6-May-10	S-98_050610		170	7 J	110	480	42	-	27	68	480	150	ND (5)	ND (0.018)	1.6	3.4	6.6	ND (9.9)	ND (2.0)	0.42	0.28	0.22	0.41	3.5
		21-Jul-10	98_072110		50	9	260	1,700	25	-	46	160	1,100	310	ND (0.5)	ND (0.0097)	0.64	4.0	4.5	ND (0.095)	ND (1.5)	0.21	0.11	0.099	0.15 J	2.3
		10-Jul-12	S-98_071012		430	16 J	310	1,800	120	-	38 J	86	920	470	ND (10)	ND (0.0097)	0.9 J	5	7	5	1 J	1 J	0.7 J	0.8 J	0.5 J	7.5
		3-Jun-14	S-98		143	3.4	173	814	2.3	-	24.6	85.4	590	142	ND (1.0)	ND (0.020)	1.02	ND (0.10)	3.08	3.01	1.38	1.08	0.730	0.916	1.17	5.0
		15-Dec-14	S-98-20141215		1,390	34.7	326	1,350	151	-	49.5	107	848	234	ND (5.0)	ND (0.020)	0.215	1.08	1.49	0.671	ND (0.10)	0.203	0.120	0.130	0.128	6.8
		25-Jun-19	S-98_20190625		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	ND (0.2)	-	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
	S-99	12-Oct-04	S-99		150	25	6.2	25	ND (5.0)	-	72	ND (5.0)	-	-	ND (5.0)	ND (0.020)	ND (0.14)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	ND (5.0)
		22-Apr-05	S99-042205		200	23	6	19	17	-	81	ND (10)	-	-	ND (5)	ND (0.029)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	-
		6-Nov-08	S-99_110608		46	14	ND (3)	14	36	-	30	ND (5)	ND (3)	ND (3)	ND (3)	ND (0.0098)	ND (1)	-	4 J	1 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	1.6
		23-Feb-09	S-99_022309		55	20	4	20	19	-	65	ND (1)	ND (0.5)	1 J	ND (0.5)	ND (0.0097)	ND (0.15)	5.4	3.7	ND (0.095)	0.69	0.062	0.072	0.076	ND (0.15)	1.2
		29-Jun-09	S-99_062909		34	31	7	31	25	-	99	ND (1)	ND (0.5)	2 J	ND (0.5)	ND (0.017)	-	-	-	-	-	-	-	-	-	1.4
		9-Sep-09	S-99_090909		24	22	5	26	19	-	87	ND (2)	ND (1)	2 J	ND (1)	ND (0.0099)	ND (1)	3 J	4 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	1.5
		20-Nov-09	S-99_112009		22	25	6 J	26	21	-	90	ND (10)	ND (5)	ND (5)	ND (5)	ND (0.0097)	ND (0.057)	5.0	3.3	0.18 J	0.69	0.030 J	0.024 J	0.017 J	ND (0.057)	1.5
		9-Mar-10	99_030910		22	16	4	18	8	-	60	ND (1)	ND (0.5)	1 J	ND (0.5)	ND (0.0097)	ND (0.57)	4.7	3.8	ND (0.95)	ND (0.72)	0.15 J	0.14 J	0.22 J	ND (0.57)	1.2
		6-May-10	S-99_050610		30	23	5 J	27	8 J	-	82	ND (10)	ND (5)	ND (5)	ND (5)	ND (0.018)	0.092 J	4.4	3.8	0.41	0.72	0.054	0.033 J	0.042	ND (0.057)	1.4
		21-Jul-10	99_072110		17	22	5	33	10	-	89	ND (1)	0.7 J	2 J	ND (0.5)	ND (0.0098)	0.17 J	4.6	4.1	0.50	0.87	0.097	0.066	0.089	ND (0.057)	1.4
		10-Jul-12	S-99_071712		5	22	5	28	5	-	77	1	1 J	2 J	ND (0.5)	ND (0.0097)	0.3 J	3	4	0.9	0.9	0.2 J	0.1 J	0.2 J	ND (0.1)	1.9
		3-Jun-14	S-99		1.9	21.8	4.9	31.5	3.2	-	77.2	ND (0.10)	0.83 J	1.5 J	ND (1.0)	ND (0.020)	ND (0.10)	1.78	1.48	0.281	0.378	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	2.9 J
		9-Dec-14	S-99-20141209		4.0	28.0	4.9	28.4	2.6	-	77.6	ND (0.10)	0.72 J	1.2 J	ND (2.0)	ND (0.020)	0.155	1.89	1.75 B	0.370 B	0.352	0.136 B	ND (0.10)	0.136	ND (0.10)	2.1 J
	S-101	12-Oct-04	S-101		1,100	7.5	16	68	ND (5.0)	-	13	74	-	-	ND (5.0)	ND (0.020)	ND (0.14)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	ND (5.0)
		22-Apr-05	S101-042205		1,400	14	22	89	ND (5)	-	26	41	-	-	ND (5)	ND (0.029)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	-
		6-Nov-08	S-101_110608		85	16	6	23	0.5 J	-	38	2 J	3	2 J	ND (0.5)	ND (0.010)	ND (10)	-	37 J	15 J	11 J	ND (10)	ND (10)	ND (10)	ND (10)	0.86 J
		23-Feb-09	S-101_022309		260	10	23	16	ND (3)	-	29	12 J	4 J	5 J	ND (3)	ND (0.0096)	ND (1.5)	13	11	4.2	2.4	0.90	ND (0.60)	0.57	ND (0.60)	0.38 J
		29-Jun-09	S-101_062909		330	4	3	3	ND (0.5)	-	24	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.010)	-	-	-	-	-	-	-	-	-	0.35 J
		9-Sep-09	S-101_090909		420	6	5	5	0.6 J	-	33	3 J	1 J	1 J	ND (0.5)	ND (0.0098)	1 J	7	5	5 J	3 J	1 J	ND (1)	ND (1)	ND (1)	0.70 J
		20-Nov-09	S-101_112009		490	7	ND (3)	3 J	ND (3)	-	23	ND (5)	ND (3)	ND (3)	ND (3)	ND (0.0098)	ND (0.057)	1.4	0.51	0.31 J	0.17	0.025 J	0.019 J	0.020 J	ND (0.057)	0.45 J
		9-Mar-10	101_030910		270	7	2	5	ND (0.5)	-	26	1 J	0.9 J	0.8 J	ND (0.5)	ND (0.0097)	0.065 J	1.6	0.57	0.28 J	0.16	0.035 J	0.024 J	0.030	0.083 J	0.43 J
		6-May-10	S-101_050610		260	6	ND (3)	4 J	ND (3)	-	21	ND (5)	ND (3)	ND (3)	ND (3)	ND (0.018)	ND (0.057)	1.4	0.61	0.23 J	0.13	0.028 J	0.028 J	0.026 J	0.069 J	0.45 J
		21-Jul-10	101_072110		350	8	4	9	ND (0.5)	-	37	3 J	2	2 J	ND (0.5)	ND (0.0099)	0.13 J	4.7	2.3	0.88	0.65	0.10	0.046	0.054	ND (0.060)	0.37 J
		10-Jul-12	S-101_071012		24	3	0.9 J	5	ND (0.5)	-	25	0.5	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0099)	0.2 J	6	1	0.9	0.9	0.1 J	ND (0.1)	0.1 J	ND (0.1)	0.23 J
		4-Jun-14	S-101		27.8	14.0	1.5	16.3	ND (1.0)	-	39.7	ND (0.10)	0.44 J	0.89 J	ND (1.0)	ND (0.020)	ND (0.10)	4.60	2.19	0.325	0.578	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		11-Dec-14	S-101-20141211		20.2	6.4	1.6	12.0	ND (1.0)	-	30.0	ND (0.10)	0.70 J	0.79 J	ND (1.0)	ND (0.037)	0.131	4.84	2.00	0.507	0.594	0.136	ND (0.10)	0.106	ND (0.10)	ND (3.0)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 1	S-193	17-Mar-04	S-193		170	ND (5)	51	68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		22-Apr-05	S193-042205		220	6	27	120	ND (5)	-	16	ND (10)	-	-	ND (5)	ND (0.029)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	-
		7-Nov-05	S-193		404	ND (10)	13	28	ND (10)	-	28	ND (10)	-	-	10	ND (0.02)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-	-	-	-	-	ND (100)
		10-Nov-05	S-193_11_10_2005		404	ND (10)	13	28	ND (10)	-	-	ND (10)	-	-	10	ND (0.02)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-
		5-Dec-06	S-193		140	2.0 J	19.0	31.0	ND (0.5)	-	7.0	3.0 J	-	-	ND (1.0)	ND (0.0098)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	0.19 J
		19-Dec-07	S-193		270	4.0	7.0	13	-	-	16	2.0 J	-	-	ND (0.5)	ND (0.0095)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	0.38 J
		6-Nov-08	S-193_110608		930	13	22	64	5	-	19	ND (5)	40	ND (3)	ND (3)	ND (0.0097)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.97 J
		23-Feb-09	S-193_022309		760	10	15	71	4 J	-	20	ND (5)	21	3 J	ND (3)	ND (0.0095)	ND (0.040)	0.96	0.050 J	ND (0.095)	ND (0.060)	ND (0.0095)	ND (0.0095)	ND (0.0076)	ND (0.057)	1.3
		29-Jun-09	S-193_062909		210	3	4	21	9	-	16	ND (1)	6	1 J	ND (0.5)	ND (0.0099)	-	-	-	-	-	-	-	-	-	0.33 J
		9-Sep-09	S-193_090909		760	9	37	120	30	-	17	8	44	15	ND (1)	ND (0.0097)	ND (0.9)	ND (0.9)	ND (0.9)	ND (0.9)	ND (0.9)	ND (0.9)	ND (0.9)	ND (0.9)	ND (0.9)	0.37 J
		20-Nov-09	S-193_112009		930	11	19	81	9	-	16	ND (5)	25	11	ND (3)	ND (0.0098)	0.066 J	0.39	ND (0.12)	ND (0.095)	ND (0.065)	0.021 J	0.015 J	0.012 J	ND (0.057)	0.51 J
		9-Mar-10	193_030910		500	6	52	130	110	-	16	4 J	17	7	ND (0.5)	ND (0.0096)	ND (0.057)	0.12 J	ND (0.15)	ND (0.095)	ND (0.025)	ND (0.0095)	ND (0.0095)	ND (0.0076)	ND (0.057)	0.12 J
		6-May-10	S-193_050610		270	3 J	18	63	45	-	9 J	6 J	12	6 J	ND (3)	ND (0.018)	ND (0.058)	ND (0.35)	ND (0.038)	ND (0.096)	ND (0.025)	ND (0.0096)	ND (0.0096)	ND (0.0077)	ND (0.058)	0.17 J
		21-Jul-10	193_072110		350	3	28	120	34	-	7	8	50	16	ND (0.5)	ND (0.0097)	ND (0.057)	0.28 J	0.13 J	ND (0.095)	0.060 J	ND (0.0095)	ND (0.0095)	0.011 J	ND (0.057)	0.097 J
		10-Nov-10	S-193		1,000	12	20	110	37	-	20	7	28	14 J	ND (5)	ND (0.0098)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	0.53 J
		22-Nov-11	S-193		1,200	11	100	180	16	-	11	11	40	18	ND (1)	ND (0.0098)	0.30	0.53	0.28	ND (0.096)	-	-	-	-	-	0.12 J
		10-Jul-12	S-193_071012		330	5 J	4 J	38	15	-	16	1	5 J	5 J	ND (3)	ND (0.0098)	ND (0.1)	0.2 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.19 J
		4-Apr-13	S-193_040413		640	8.3	12.9	71.0	16.0	-	16.6	0.311	30.1	13.4	15.7	ND (0.020)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	1.1
		3-Jun-14	S-193		707	6.3	49.6	89.1	12.6	-	7.4	3.59	35.2	13.6	ND (2.5)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		15-Dec-14	S-193-20141215		1,350	10.2	46.9	138	35.5	-	13.5	4.42 J-	50.6	22.1	ND (5.0)	ND (0.020)	R	0.302 J-	0.262 J-	R	ND (0.10)	R	R	R	R	2.0 J
		19-May-15	S-193_20150519		1,000	8	34	140	15	-	10	6	46	20	ND (3)	ND (0.0097)	ND (0.1)	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.090 J
		18-May-16	S-193-20160518		240	5	9	38	10	-	16	1	19	11	ND (0.5)	0.029	ND (0.1)	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.82 J
		16-May-17	S-193-20170516		47	1	22	110	2	-	8	1	140	59	ND (0.5)	ND (0.0095)	ND (0.1)	0.3 J	0.4 J	0.2 J	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	3.1
		9-Jul-19	S-193_20190709		140	0.6 J	7	4 J	8	62	2 J	0.5	5 J	1 J	ND (2)	0.012 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		12-May-21	S-193_20210512		7.8	ND (1.0)	1.5	ND (6.0)	0.86 J	14 J	0.56 J	ND (0.50)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	0.14 J
	S-195	17-Mar-04	S-195		ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		7-Nov-05	S-195		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	-	-	ND (1)	ND (0.02)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-	-	-	-	-	ND (10)
		10-Nov-05	S-195_11_10_2005		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	ND (1)	-	-	ND (1)	ND (0.02)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-
	S-196	18-Mar-04	S-196		ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		22-Apr-05	S196-042205		ND (5)	ND (5)	ND (5)	13	ND (5)	-	ND (5)	ND (10)	-	-	ND (5)	ND (0.029)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	-
		7-Nov-05	S-196		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	4	ND (1)	-	-	ND (1)	ND (0.02)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-	-	-	-	-	ND (10)
		10-Nov-05	S-196_11_10_2005		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	ND (1)	-	-	ND (1)	ND (0.02)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-
		19-Dec-06	S-196		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1.0)	-	-	ND (0.5)	ND (0.0097)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	0.21 J
		19-Dec-07	S-196		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	-	ND (0.5)	ND (1.0)	-	-	ND (0.5)	ND (0.0096)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	0.066 J
		6-Nov-08	S-196_110608		ND (3)	ND (3)	ND (3)	ND (3)	ND (3)	-	ND (3)	ND (5)	ND (3)	ND (3)	ND (3)	ND (0.0096)	ND (10)	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	0.18 J
		23-Feb-09	S-196_022309		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.039)	ND (0.097)	0.059 J	ND (0.097)	ND (0.040)	ND (0.0097)	ND (0.0097)	ND (0.0078)	ND (0.058)	0.12 J
		29-Jun-09	S-196_062909		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.010)	-	-	-	-	-	-	-	-	-	0.12 J
		9-Sep-09	S-196_090909		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.10 J
		20-Nov-09	S-196_112009		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	0.063 J	ND (0.10)	ND (0.040)	ND (0.10)	ND (0.020)	0.015 J	0.029 J	0.023 J	ND (0.060)	ND (0.050)
		9-Mar-10	196_030910		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.058)	ND (0.096)	ND (0.038)	ND (0.096)	ND (0.019)	ND (0.0096)	ND (0.0096)	ND (0.0077)	ND (0.058)	ND (0.050)
		6-May-10	S-196_050610		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.018)	ND (0.12)	ND (0.20)	ND (0.080)	ND (0.20)	ND (0.040)	ND (0.020)	ND (0.020)	ND (0.016)	ND (0.12)	ND (0.050)
		21-Jul-10	196_072110		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (0.058)	ND (0.097)	0.047 J	ND (0.097)	0.025 J	ND (0.0097)	ND (0.0097)	ND (0.0077)	ND (0.058)	0.078 J
		10-Nov-10	S-196		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.9)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.9)	ND (0.9)	ND (0.9)	ND (0.9)	ND (0.9)	-	-	-	-	0.061 J
		22-Nov-11	S-196		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.99)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	0.19 J	ND (0.099)	ND (0.079)	0.16 J	-	-	-	-	-	ND (0.080)
		10-Jul-12	S-196_071012		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.034)
		4-Apr-13	S-196_040413		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (2.0)	ND (0.11)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	0.035 J
		4-Jun-14	S-196		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	0.180	0.323	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	4.1
		9-Dec-14	S-196-20141209		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		19-May-15	S-196_20150519		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.082)
		16-May-16	S-196-20160516		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	0.013 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.13)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE µg/L	TOLUENE µg/L	ETHYLBENZENE µg/L	XYLENES, TOTAL (DIMETHYLBENZENE) µg/L	METHYL TERTIARY BUTYL ETHER µg/L	TERT-BUTYL ALCOHOL µg/L	ISOPROPYLBENZENE (CUMENE) µg/L	NAPHTHALENE µg/L	1,2,4-TRIMETHYLBENZENE µg/L	1,3,5-TRIMETHYLBENZENE µg/L	1,2-DICHLOROETHANE (EDC) µg/L	1,2-DIBROMOETHANE (EDB) µg/L	CHRYSENE µg/L	FLUORENE µg/L	PHENANTHRENE µg/L	PYRENE µg/L	ANTHRACENE µg/L	BENZO(A)ANTHRACENE µg/L	BENZO(A)PYRENE µg/L	BENZO(B)FLUORANTHENE µg/L	BENZO(G,H,I)PERYLENE µg/L	LEAD, Dissolved µg/L
AOI 1	S-197	18-Mar-04	S-197		ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		7-Nov-05	S-197		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)	ND (1)	-	-	ND (1)	ND (0.02)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	-	-	-	-	-	ND (10)
		10-Nov-05	S-197_11_10_2005		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	ND (1)	-	-	ND (1)	ND (0.02)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	-	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	-
	S-199	17-Aug-18	S-199_20180817		10,800 SL	412 SL	872 SL	3,770 SL	20,200 SL	-	ND (200) SL	1,890 SL	998 SL	297 SL	ND (200) SL	ND (0.0100) SL	1.25 SL	21.0 SL	26.0 SL	3.67 SL	5.06 SL	1.13 SL	0.731 SL	0.915 SL	0.399 SL	6.57 SL
		11-Jul-19	S-199-SL_20190711		8,000 SL	1,300 SL	770 SL	2,700 SL	21,000 SL	47,000 SL	68 SL	5,400 SL	690 SL	220 SL	ND (20) SL	ND (0.0094) SL	8 J SL	76 SL	120 SL	27 SL	22 J SL	8 J SL	5 J SL	7 J SL	ND (5) SL	2.6 J SL
		26-Apr-21	S-199_SL_20210426		11,000 SL	1,800 SL	640 SL	2,600 SL	15,000 SL	56,000 SL	47 J SL	560 SL	570 SL	190 SL	ND (10) SL	ND (0.082) SL	0.34 J SL	6.5 SL	9.6 SL	1.4 SL	1.5 SL	0.29 J SL	0.27 J SL	0.22 J SL	ND (0.51) SL	3.5 SL
	S-200	19-May-21	S-200_20210519		6,200	63	380	580	240	270	32	660	580	290	ND (1.0)	ND (0.028)	2.9	22	15	9.8	6.2	3.3	2.0	2.2	0.70	0.81
	S-230	18-Apr-06	S-230		890	180	79	180	ND (5)	-	10	20 *	-	-	-	-	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	-
		14-Sep-07	S-230_091407		2,600	ND (5)	32	64	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		25-Mar-09	S-230_032509		8,000	ND (20)	51	52	ND (20)	-	ND (40)	14	-	-	ND (20)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		7-May-09	S-230		400	ND (1)	2	5	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		25-Jun-09	S-230		1,200	6	23	23	ND (2)	-	5	ND (50)	-	-	ND (2)	ND (0.030)	ND (50)	ND (50)	ND (50)	ND (50)	-	-	-	-	-	ND (1.0)
		21-Jul-09	S-230_072109		1,900	120	12	41	ND (2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		18-Aug-09	S-230_081809		1,000	3	11	15	ND (2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		17-Sep-09	S-230_091709		340	2	8	10	ND (1)	-	6	ND (50)	-	-	ND (1)	ND (0.029)	ND (50)	ND (50)	ND (50)	ND (50)	-	-	-	-	-	ND (1.0)
		22-Oct-09	S-230_102209		490	9	12	37	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		25-Nov-09	S-230_112509		540	8	7	17	ND (2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		17-Mar-10	S-230_031710		230	2	8	11	ND (1)	-	ND (2)	ND (4)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		1-Jun-10	S-230_060110		610	3	19	17	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		7-Sep-10	S-230_090710		800	5	11	10	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		9-Nov-10	S-230_110910		51	ND (1)	3	3	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		14-Mar-11	S-230_031411		14	10	ND (1)	2	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		16-May-11	S-230-05162011		81	28	ND (1)	3	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		21-Jul-11	S-230_07212011		8,700	13	63	44	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		21-Dec-11	S-230_12212011		85	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		25-Jul-12	S-230_072512		3,700	9 J	12	7 J	ND (5)	-	ND (5)	0.9	ND (5)	ND (5)	ND (5)	ND (0.0098)	0.2 J	0.3 J	0.2 J	0.3 J	ND (0.1)	0.1 J	0.1 J	0.3 J	0.1 J	9.2
		9-Aug-12	S-230_080912		3,900	ND (10)	10	ND (10)	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		18-Oct-12	S-230_101812		57,000	98	180	140	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		15-Jan-13	S-230_011513		1,190	1.4	7.7	3.8	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		21-May-14	S-230		8,680	26.2	24.2	14.1 J	7.0 J	-	ND (20)	2.47	ND (40)	ND (40)	ND (20)	ND (0.020)	ND (0.10)	0.313	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	1.4 J
		17-Dec-14	S-230-20141217		1,720	ND (10)	5.1 J	ND (10)	ND (10)	-	ND (10)	0.758	ND (20)	ND (20)	ND (10)	ND (0.020)	ND (0.10)	0.417	0.272	0.213	0.126	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		26-Jun-18	S_230_20180626		3,380	4.24	18.0	12.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		19-Jun-19	S-230_20190619		3,200	150	9	11 J	ND (1)	ND (50)	ND (2)	0.2 J	3 J	ND (2)	ND (10)	ND (0.0095)	0.5 J	0.1 J	0.3 J	0.7	ND (0.1)	0.3 J	0.3 J	0.5	0.3 J	ND (1.1)
		7-May-21	S-230_20210507		8,300	120	39	18 J	2.4 J	ND (500)	2.3 J	8.9	11 J	4.0 J	ND (10)	ND (0.028)	0.24 J	0.72	0.33 J	0.50 J	0.26 J	0.15 J	0.21 J	0.33 J	ND (0.56)	0.30 J

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Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 1	S-231	14-Sep-07	S-231_091407		8,000	270	120	690	ND (20)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		12-Jun-08	S-231_061208		33,000	170	280	1,100	ND (50)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		25-Mar-09	S-231_032509		60,000	ND (200)	400	1,100	ND (200)	-	ND (400)	70	-	-	ND (200)	ND (0.03)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		7-May-09	S-231		42,000	84	75	640	ND (50)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		22-Jun-09	S-231_062209		28,000	ND (50)	140	600	ND (50)	-	ND (100)	-	-	-	ND (50)	ND (0.029)	-	-	-	-	-	-	-	-	-	ND (1.0)
		23-Jun-09	S-231		42,000	84	75	640	ND (50)	-	-	76	-	-	-	-	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-
		21-Jul-09	S-231_072109		31,000	67	190	750	ND (25)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		18-Aug-09	S-231_081809		22,000	ND (50)	150	560	ND (50)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		16-Sep-09	S-231_091609		3,900	11	24	170	ND (5)	-	ND (10)	16	-	-	ND (5)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1.0)
		22-Oct-09	S-231_102209		5,300	21	63	340	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		25-Nov-09	S-231_112509		9,600	43	96	350	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		10-Dec-09	S-231_121009		12,000	50	75	300	17	-	ND (20)	28	-	-	ND (10)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1.0)
		17-Mar-10	S-231_031710		12,000	ND (50)	71	240	ND (50)	-	ND (100)	ND (200)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		7-Sep-10	S-231_090710		7,800	25	99	280	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		9-Nov-10	S-231_110910		6,700	22	82	260	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		11-Nov-10	S-231		9,500	460	86	280	16	-	14 J	54	110	75	ND (5)	ND (0.0096)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	0.61 J
		14-Mar-11	S-231_031411		190,000	76,000	910	5,400	ND (500)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		23-Nov-11	S-231		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.96)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0094)	0.28	ND (0.096)	0.32	0.39	-	-	-	-	-	ND (0.080)
		2-Apr-13	S-231		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1)
		2-Apr-13	S-231_040213		1,570	33.7	105	1,560	ND (5.0)	-	21.7	30.4	479	200	ND (5.0)	ND (0.020)	ND (0.11)	0.780	0.834	0.321	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	-
		21-May-14	S-231		24.3	5.8	26.5	24.0	ND (1.0)	-	18.7	6.02	41.5	27.4	ND (1.0)	ND (0.020)	ND (0.10)	0.324	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	2.7 J
		12-Dec-14	S-231-20141212		232	7.4	22.5	22.3	1.1	-	14.9	9.51	36.4	27.2	ND (1.0)	ND (0.020)	ND (0.10)	0.230	0.132	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	1.9 J
		18-May-15	S-231_20150518		25	8	15	10	2	-	22	3	15	10	ND (0.5)	ND (0.0097)	0.4 J	0.3 J	0.6	0.5	ND (0.1)	0.3 J	0.2 J	0.3 J	0.2 J	0.11 J
		10-May-16	S-231-20160510		29	15	11	18	4	-	29	4	10	16	ND (1)	ND (0.029)	ND (0.5)	0.6	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)

See notes on last page.

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Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 1	S-232	18-Apr-06	S-232		4,300	120	680	1,100	ND (50)	-	90	320 *	-	-	-	-	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-
		14-Sep-07	S-232_091407		320	11	69	79	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		12-Jun-08	S-232_061208		180	6	41	58	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		25-Mar-09	S-232_032509		720	2	29	53	ND (1)	-	6	9	-	-	ND (1)	ND (0.03)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		7-May-09	S-232		360	2	5	31	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		22-Jun-09	S-232_062209		13	ND (1)	1	ND (1)	2	-	ND (2)	ND (5)	-	-	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1.0)
		21-Jul-09	S-232_072109		140	21	11	22	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		18-Aug-09	S-232_081809		45	2	6	11	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		16-Sep-09	S-232_091609		170	1	4	14	ND (1)	-	ND (2)	ND (5)	-	-	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1.0)
		22-Oct-09	S-232_102209		110	6	12	24	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		19-Nov-09	S-232		6,800	39	130	410	26	-	21	42	140	82	ND (5)	ND (0.0097)	0.2	-	0.6	0.39 J	-	-	-	-	-	0.13 J
		25-Nov-09	S-232_112509		140	3	4	8	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		10-Dec-09	S-232_121009		31	1	3	4	3	-	ND (2)	ND (5)	-	-	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1.0)
		17-Mar-10	S-232_031710		170	3	8	26	ND (1)	-	ND (2)	ND (4)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		7-Sep-10	S-232_090710		9	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		9-Nov-10	S-232_110910		3	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		11-Nov-10	S-232		39	6	2	3	4	-	0.7 J	ND (1)	1 J	1 J	ND (0.5)	ND (0.0098)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	0.10 J
		14-Mar-11	S-232_031411		3	3	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		16-May-11	S-232-05162011		34	65	ND (1)	9	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		21-Jul-11	S-232_07212011		5	2	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		21-Nov-11	S-232		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (11)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	1.4 J	ND (1.1)	1.5 J	1.9 J	-	-	-	-	-	ND (0.080)
		21-Dec-11	S-232_12212011		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		24-Jul-12	S-232_072412		4	0.7 J	0.7 J	ND (0.5)	ND (0.5)	-	1 J	1	0.6 J	0.6 J	ND (0.5)	ND (0.0099)	0.1 J	0.2 J	0.3 J	0.2 J	ND (0.09)	0.1 J	0.2 J	0.2 J	0.1 J	1.6
		9-Aug-12	S-232_080912		28	2	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		18-Oct-12	S-232_101812		80	5	7	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		15-Jan-13	S-232_011513		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2-Apr-13	S-232		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1)
		2-Apr-13	S-232_040213		30.1	3.5	5.8	3.8	0.76 J	-	3.0	0.929	0.83 J	2.0	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	-
		20-May-14	S-232		4.7	0.67 J	1.1	0.91 J	ND (1.0)	-	1.5	0.486	0.23 J	0.40 J	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		9-Dec-14	S-232-20141209		0.66	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	0.30 J	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	0.122 B	0.120 B	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	2.7 J
		18-May-15	S-232_20150518		2	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	0.1 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	0.1 J	ND (0.1)	0.1 J	0.2 J	ND (0.1)	ND (0.1)	0.1 J	0.2 J	ND (0.1)	0.17 J
		10-May-16	S-232-20160510		2	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (0.5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
	S-268	19-Dec-07	S-268		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	-	ND (0.5)	ND (1.0)	-	-	ND (0.5)	ND (0.0096)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	0.93 J
		6-Nov-08	S-268_110608		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0099)	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.19 J
		23-Feb-09	S-268_022309		4	0.6 J	2	18	ND (0.5)	-	ND (0.5)	3 J	12	4	ND (0.5)	ND (0.0095)	ND (0.15)	0.28 J	0.67	ND (0.095)	0.18	ND (0.040)	0.012 J	0.015 J	ND (0.070)	0.31 J
		29-Jun-09	S-268_062909		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.010)	-	-	-	-	-	-	-	-	-	0.19 J
		9-Sep-09	S-268_090909		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.010)	ND (0.9)	ND (0.9)	ND (0.9)	ND (0.9)	ND (0.9)	ND (0.9)	ND (0.9)	ND (0.9)	ND (0.9)	0.13 J
		20-Nov-09	S-268_112009		1	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.057)	ND (0.095)	0.065 J	0.22 J	0.046 J	0.014 J	ND (0.0095)	ND (0.0076)	ND (0.057)	0.16 J
		9-Mar-10	268_030910		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	0.074 J	ND (0.095)	ND (0.060)	0.20 J	0.032 J	0.050	0.066	0.062	0.062 J	0.27 J
		6-May-10	S-268_050610		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.018)	0.069 J	ND (0.095)	ND (0.10)	0.18 J	0.043 J	ND (0.0095)	ND (0.0095)	0.0080 J	ND (0.057)	0.30 J
		21-Jul-10	268_072110		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	0.069 J	ND (0.096)	0.054 J	0.14 J	0.031 J	ND (0.0096)	ND (0.0096)	ND (0.0077)	ND (0.057)	0.30 J
		10-Nov-10	S-268		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	0.064 J
		22-Nov-11	S-268		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.99)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.079)	ND (0.099)	ND (0.079)	ND (0.099)	-	-	-	-	-	ND (0.080)
		11-Jul-12	S-268_071112		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.051 J
		4-Apr-13	S-268_040413		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (2.0)	ND (0.11)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	0.10 J
		4-Jun-14	S-268		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	1.3 J
		9-Dec-14	S-268-20141209		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		19-May-15	S-268_20150519		2	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.082)
		18-May-16	S-268-20160518		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.1)	ND (0.1)	ND (0.1)	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.13)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 1	S-271	3-Nov-08	S-271_110308		2,500	60	450	1,100	340	-	94	620	430	210	ND (3)	ND (0.0097)	2 J	-	27	5	5	2 J	ND (0.9)	1 J	ND (0.9)	9.8
		19-Feb-09	S-271_021909		1,900	33	400	890	180	-	100	680	510	310	ND (10)	ND (0.0097)	1.9	14	20	8.9	3.8	1.7	1.4	1.0	0.99	10.1
		25-Jun-09	S-271_062509		2,000	55	330	550	110	-	97	430	290	180	ND (0.5)	ND (0.0096)	0.97	18	22	3.7	4.1	0.86	0.61	0.53	0.65	8.3
		8-Sep-09	S-271_090809		1,100	36	250	370	36	-	93	390	160	120	ND (1)	ND (0.0097)	ND (1)	18	19	2 J	4 J	ND (1)	ND (1)	ND (1)	ND (1)	7.4
		23-Nov-09	S-271_112309		1,200	50	210	300	12	-	85	330	120	100	ND (5)	ND (0.0097)	2.4	18	28	7.3	5.2	1.9	1.4	1.2	1.2	7.4
		8-Mar-10	271_030810		560	12	95	130	11	-	81	170	58	65	ND (0.5)	ND (0.0097)	0.62	18	17	2.7	3.3	0.51	0.31	0.29	0.19 J	5.1
		5-May-10	S-271_050510		980	29	110	140	38	-	76	210	58	66	ND (5)	ND (0.017)	0.59	16	18	2.3	2.8	0.40	0.27	0.21	0.20	6.4
		21-Jul-10	271_072110		890	23	91	110	160	-	73	170	47	54	ND (3)	ND (0.0098)	0.51	16	18	2.2	2.9	0.38	0.25	0.22	0.22	6.4
		18-Jul-12	S-271_071812		170	27	13	25	74	-	65	13	ND (3)	7 J	ND (3)	ND (0.0097)	0.2 J	15	16	1	3	0.2 J	ND (0.1)	ND (0.1)	ND (0.1)	4.6
		27-May-14	S-271		151	24.4	9.1	19.3	199	-	75.8	ND (0.10)	1.0 J	3.7	ND (1.0)	ND (0.020)	0.159	6.53	4.23	0.746	0.951	0.118	ND (0.10)	0.146	ND (0.10)	12.6
		15-Dec-14	S-271-20141215		404	44.6	12.3	39.4	7,030	-	81.4	11.0 J-	2.6 J	7.2 J	ND (10)	ND (0.020)	0.107 J-	7.98 J-	7.89 J-	0.742 J-	1.44 J-	R	R	R	R	10.8
		28-Jun-18	S-271_20180628		86.7	ND (50.0)	ND (50.0)	ND (150)	ND (50.0)	1,010 OE	74.2	-	ND (50.0)	ND (50.0)	ND (50.0)	ND (0.0100) HT	-	-	-	-	-	-	-	-	-	-
		28-Jun-18	S-271-HS_20180628	Hydra Sleeve	67.1	ND (50.0)	ND (50.0)	ND (150)	ND (50.0)	1,160 OE	ND (50.0)	-	ND (50.0)	ND (50.0)	ND (50.0)	ND (0.0100) HT	-	-	-	-	-	-	-	-	-	-
		18-Jun-19	S-271_20190618		140	33	10	49	32	2,500	88	ND (0.1)	1 J	11	ND (2)	ND (0.0094)	0.3 J	8	8	2	2	0.3 J	0.2 J	0.3 J	0.1 J	7.0
		7-May-21	S-271_20210507		120	35	7.6	36	290	7,300	78	ND (0.55)	ND (25)	9.2 J	ND (5.0)	ND (0.028)	0.14 J	9.8	7.1	0.87	1.4	0.13 J	0.12 J	0.11 J	ND (0.55)	9.1
	S-273	4-Nov-08	S-273_110408		130	14	99	470	10 J	-	35	30 J	150	61	ND (5)	ND (0.0098)	ND (1)	-	7	3 J	2 J	ND (1)	ND (1)	ND (1)	ND (1)	3.5
		19-Feb-09	S-273_021909		46	4	11	81	0.8 J	-	8	6	40	19	ND (0.5)	ND (0.0096)	0.57	0.62	0.50	ND (2.0)	0.19	0.36	0.33	0.29	0.27	1.7
		25-Jun-09	S-273_062509		170	20	25	130	4	-	23	10	46	24	ND (0.5)	ND (0.0096)	0.41	2.6	1.7	0.86	0.46	0.24	0.25	0.24	0.27	3.0
		8-Sep-09	S-273_090809		140	5	39	150	1	-	19	6	53	28	ND (0.5)	ND (0.0097)	ND (1)	2 J	1 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	1.7
		23-Nov-09	S-273_112309		120	8	15	66	1 J	-	22	5	21	11	ND (0.5)	ND (0.0098)	0.21	1.8	1.1	0.39	ND (0.21)	0.12	0.13	0.11	0.12 J	2.6
		8-Mar-10	273_030810		160	3	14	25	0.8 J	-	12	2 J	10	5	ND (0.5)	ND (0.0096)	0.16 J	0.63	0.74	0.48	0.22	0.11	0.070	0.070	ND (0.058)	0.62 J
		5-May-10	S-273_050510		510	9	41	99	ND (3)	-	15	ND (5)	16	10 J	ND (3)	ND (0.018)	0.068 J	1.8	0.92	0.24 J	0.20	0.026 J	0.018 J	0.012 J	ND (0.058)	1.5
		22-Jul-10	273_072210		330	6	62	130	0.9 J	-	22	2 J	29	20	ND (0.5)	ND (0.0099)	0.082 J	1.8	0.91	0.25 J	0.23	0.027 J	0.017 J	0.015 J	ND (0.057)	1.2
		18-Jul-12	S-273_071812		130	7	19	88	5	-	26	0.5	12	11	ND (3)	ND (0.0096)	ND (0.1)	3	2	0.3 J	0.3 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	1.8
		27-May-14	S-273		69.5	8.4	2.9	18.2	65.6	-	50.0	ND (0.10)	0.86 J	1.6 J	ND (1.0)	ND (0.020)	ND (0.10)	0.818	0.493	0.146	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	3.5
		12-Dec-14	S-273-20141212		376	12.4 J	ND (20)	38.8	2,150	-	16.2 J	ND (0.10)	4.7 J	5.7 J	ND (20)	ND (0.020)	ND (0.10)	1.51	0.807	0.156	0.160	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	3.6
		22-Jun-18	S-273_20180622		9.88	2.57	2.49	16.6	91.8	1,320	54.1	-	18.6	9.79	ND (1.00)	ND (0.0100)	-	-	-	-	-	-	-	-	-	-
		18-Jun-19	S-273_20190618		330	7	16	81	72	560	21	ND (0.1)	4 J	7	ND (2)	ND (0.0096)	ND (0.1)	0.3 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		6-May-21	S-273_20210506		420	9.9	58	260	55	210	8.4	ND (0.57)	23	21	ND (1.0)	ND (0.028)	ND (0.57)	0.29 J	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	0.40 J
	S-276	29-Jun-18	S-276-20180629		6,040 SL	ND (200) SL	373 SL	1,500 SL	ND (200) SL	ND (1,000) SL	ND (200) SL	-	454 SL	243 SL	ND (200) SL	ND (0.0100) HT SL	-	-	-	-	-	-	-	-	-	-
		10-Jul-19	S-276-SL_20190710		5,800 SL	69 SL	700 SL	2,100 SL	72 SL	300 SL	40 J SL	80 SL	380 SL	220 SL	ND (20) SL	ND (0.0095) SL	3 SL	30 SL	54 SL	9 SL	ND (0.1) SL	2 SL	1 SL	2 SL	0.8 SL	2.3 J SL
		27-Apr-21	S-276_SL_20210427		1,600 SL	18 SL	270 SL	710 SL	140 SL	1,100 SL	24 J SL	15 SL	200 SL	86 SL	ND (5.0) SL	ND (0.029) SL	ND (0.50) SL	1.3 SL	1.0 SL	0.27 J SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	1.7 SL
	S-277	19-Feb-09	S-277		3,000	1,100	440	2,800	130,000	-	76	310	930	390	ND (10)	ND (0.0096)	ND (1.5)	9.9	16	ND (16)	ND (3.5)	ND (0.5)	0.15	0.13	0.13 J	8.3
		20-Feb-09	S-277_022009		3,000	1,100	440	2,800	130,000	-	76	310	930	390	ND (10)	ND (0.0096)	ND (1.5)	9.9	16	ND (16)	ND (3.5)	ND (0.50)	0.15	0.13	0.13 J	8.3
		26-Jun-09	S-277_062609		2,300	720	96	730	22,000	-	52	59	190	76	ND (5)	ND (0.016)	0.11 J	4.3	4.4	ND (0.095)	0.82	0.033 J	0.019 J	0.017 J	ND (0.057)	3.7
		8-Sep-09	S-277_090809		2,600	930	75	690	25,000	-	42	51	160	71	ND (5)	ND (0.0099)	ND (0.9)	4 J	5	ND (0.9)	ND (0.9)	ND (0.9)	ND (0.9)	ND (0.9)	ND (0.9)	4.3
		23-Nov-09	S-277_112309		1,100	320	75	420	2,500	-	73	36	100	53	ND (0.5)	ND (0.0099)	0.86	7.8	12	ND (0.099)	ND (2.5)	0.33	0.16	0.16	0.18 J	5.4
		29-Jun-18	S-277_20180629		4,020 SL	1,050 SL	139 SL	2,910 SL	4,320 SL	120,000 SL	ND (50.0) SL	-	614 SL	323 SL	ND (50.0) SL	ND (0.0100) HT SL	-	-	-	-	-	-	-	-	-	-
		10-Jul-19	S-277-SL_20190710		3,000 SL	1,000 SL	510 SL	2,900 SL	1,800 SL	56,000 SL	62 SL	89 SL	410 SL	180 SL	ND (20) SL	ND (0.0095) SL	ND (0.1) SL	3 SL	3 SL	ND (0.1) SL	0.4 J SL	ND (0.1) SL	ND (0.1) SL	ND (0.1) SL	ND (0.1) SL	9.3 SL
		26-Apr-21	S-277_SL_20210426		4,800 SL	1,400 SL	140 SL	1,400 SL	4,700 SL	68,000 E SL	48 SL	52 SL	270 SL	130 SL	ND (5.0) SL	ND (0.029) SL	ND (0.50) SL	2.0 SL	1.5 SL	ND (0.50) SL	0.24 J SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	11 SL
	S-388D	19-May-14	S-388D		0.44 J	0.35 J	0.47 J	0.30 J	6.4	-	6.7	0.750	0.22 J	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	0.338	0.383	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (6.0)
		4-Dec-14	S-388D-20141204		0.98	0.41 J	1.0	0.51 J	7.6	-	13.6	ND (0.10)	0.47 J	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	1.23	1.20	ND (0.10)	0.158	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		17-Jun-19	S-388D_20190617		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	7	1,200	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0094)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		29-Apr-21	S-388D_20210429		ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	5.6	1,000 E	ND (5.0)	ND (0.52)	ND (5.0)	ND (5.0)	0.38 J	ND (0.029)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)
		29-Apr-21	DUP-4_20210429	Field Duplicate	ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	5.5	1,000 E	ND (5.0)	ND (0.51)	ND (5.0)	ND (5.0)	0.37 J	ND (0.029)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.52)
	S-396	20-May-14	S-396		6,730	ND (25)	ND (25)	22.5 J	6,950	-	ND (25)	45.1	31.5 J	12.8 J	ND (25)	ND (0.020)	ND (0.10)	0.652	0.364	ND (0.10)	0.125	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	1.9 J
		4-Dec-14	S-396-20141204		7,710	ND (5.0)	16.9	16.7	6,170	-	20.9	-	11.5	3.0 J	ND (5.0)	ND (0.020)	ND (0.10)	0.559	0.779	0.125	0.141	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		28-Jun-18	S-396_20180628		4,650	1.01	20.3	22.1	2,120	72,800	14.9	-	4.19	ND (1.00)	ND (1.00)	ND (0.0100) HT	-	-	-	-	-	-	-	-	-	-
		28-Jun-18	S-396_HS_20180628	Hydra Sleeve	5,200	1.13	23.9	25.0	2,290	75,400	20.1	-	5.32	ND (1.00)	ND (1.00)	ND (0.0100) HT	-	-	-	-	-	-	-	-	-	-
		20-Jun-19	S-396_20190620		1,600	ND (2)	14	6 J	1,700	78,000	12 J	0.9	ND (3)	ND (3)	ND (20)	ND (0.0094)	ND (0.1)	ND (0.1)	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		5-May-21	S-396_20210505		ND (50)	ND (50)	ND (50)	ND (300)	730	45,000	22 J	0.38 J	ND (250)	ND (250)	ND (50)	ND (0.029)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.52)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 1	S-398	19-May-14	S-398		1.4	ND (2.5)	ND (2.5)	ND (2.5)	3.6	-	28.0	ND (0.10)	ND (5.0)	ND (5.0)	ND (2.5)	ND (0.020)	ND (0.10)	2.41	2.24	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	6.6 J
		4-Dec-14	S-398-20141204		2.7	0.69 J	0.56 J	ND (1.0)	5.4	-	30.5	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	3.19	3.15	0.176	0.335	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	1.4 J
		26-Jun-18	S_398_20180626		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	ND (1.00)	24.7	ND (1.00)	-	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) HT	-	-	-	-	-	-	-	-	-	-
		18-Jun-19	S-398_20190618		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	5	31	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.1)	2	ND (0.1)	0.4 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		29-Apr-21	S-398_20210429		ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	3.1	ND (50)	ND (5.0)	ND (0.54)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.54)	0.24 J	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.52)
	S-399	19-May-14	S-399		2.4	1.1	2.6	2.2	62.9	-	14.6	3.18	1.1 J	9.6	ND (1.0)	ND (0.020)	ND (0.10)	0.599	0.621	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	1.8 J
		3-Dec-14	S-399-20141203		2.2	0.40 J	2.5	1.8	71.8	-	14.7	2.09	0.98 J	5.3	ND (1.0)	ND (0.020)	ND (0.10)	0.637	0.595	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		19-Jun-18	S-399_20180619		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	22.9	2,620	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	0.119	0.234	ND (0.0500)	0.0654	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		17-Jun-19	S-399_20190617		0.4 J	0.2 J	ND (0.2)	ND (0.5)	19	1,600	0.6 J	ND (0.09)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.09)	ND (0.09)	0.1 J	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (1.1)
		29-Apr-21	S-399_20210429		6.4	3.4	0.83 J	4.7 J	6.9	600	0.23 J	0.60	ND (5.0)	0.31 J	ND (1.0)	ND (0.029)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)
	S-418	9-Jul-15	S-418-20150709		88,300	15,700	1,210	3,770	254	-	86.5 J	86.5	1,100	309	ND (100)	ND (0.019)	ND (0.10)	0.505	0.585	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.050)	ND (0.10)	ND (0.10)	ND (3.0)
		9-Jul-15	S-418-20150709 DUP	Field Duplicate	84,300	16,300	1,220	3,800	263	-	84.5 J	84.7 J-	1,080	306	ND (100)	ND (0.019)	R	0.547 J-	0.474 J-	R	R	R	R	R	R	ND (3.0)
		3-Feb-16	AOI1_S-418_020316		34,300	7,690	1,260	3,580	159	-	95.3	117	2,070	286	ND (1.0)	ND (0.040)	ND (0.13)	0.76	0.46	0.040 J	0.14	0.095 J	0.83	ND (0.13)	ND (0.13)	3.2 J
		28-Jun-18	S-418_20180628		30,200	131	249	273	64.7	1,480	83.3	-	149	67.1	ND (10.0)	ND (0.0100) HT	-	-	-	-	-	-	-	-	-	-
		28-Jun-18	S-418-HS_20180628	Hydra Sleeve	7,620	ND (50.0)	282	502	195	3,070	50.5	-	519	124	ND (50.0)	ND (0.0100) HT	-	-	-	-	-	-	-	-	-	-
		19-Jun-19	S-418_20190619		23,000	87	160	180	45	1,000	72	43	93	45	ND (10)	ND (0.0095)	ND (0.1)	1	0.9	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		19-Jun-19	DUP2_20190619	Field Duplicate	23,000	83	140	170 J	45 J	1,100 J	60 J	35	83 J	40 J	ND (100)	ND (0.0094)	ND (0.1)	1	0.8	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		7-May-21	S-418_20210507		13,000	70	97	86	28	960	80	27	45 J	30 J	ND (10)	ND (0.028)	ND (0.59)	1.1	0.62	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	0.18 J
AOI 2	PGW-MW-8S	8-Apr-13	PGW-MW-8S_040813		2.4	1.9	0.78 J	8.4	2.1	-	35.8	ND (0.1)	0.94 J	1.5 J	ND (1)	ND (0.02)	6.45	7.17	14.1	16.8	3.57	4.75	3.33	2.89	1.52	ND (3)
		29-May-14	PGW-MW8S		1.3	0.36 J	0.53 J	1.5	ND (1.0)	-	7.1	ND (0.10)	1.3 J	0.61 J	ND (1.0)	ND (0.020)	2.62	1.90	0.351	8.01	0.997	2.78	1.45	2.15	0.710	9.1
	RW-108	10-Dec-09	RW-108_121009		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		11-May-16	RW-108-20160511		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (0.5)	ND (2)	ND (2)	ND (1)	ND (0.030)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
		17-May-17	RW-108-20170517		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.090)
		22-Jun-18	RW-108_20180622		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	1.42	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
	RW-109	8-Nov-05	RW-109_11_8_2005		4	1	ND (1)	3	ND (1)	-	-	1	-	-	ND (1)	ND (0.02)	ND (0.1)	0.6	ND (0.1)	0.1	-	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-
		5-Dec-06	RW-109		ND (0.5)	ND (0.7)	ND (0.8)	ND (0.8)	ND (0.5)	-	ND (1.0)	ND (1.0)	-	-	ND (1.0)	ND (0.0099)	ND (1.0)	1.0 J	2.0 J	ND (1.0)	-	-	-	-	-	0.15 J
		18-Dec-07	RW-109		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	-	ND (0.5)	3.0 J	-	-	ND (0.5)	ND (0.0096)	ND (1.0)	ND (1.0)	1.0 J	ND (1.0)	-	-	-	-	-	0.094 J
		7-Nov-08	RW-109_110708		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0099)	ND (1)	-	1 J	ND (1)	-	-	-	-	-	ND (0.050)
		10-Dec-09	RW-109_121009		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		8-Nov-10	RW-109		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.9)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.9)	1 J	ND (0.9)	ND (0.9)	-	-	-	-	-	ND (0.052)
		28-Nov-11	RW-109		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.97)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (0.078)	0.26 J	0.12 J	ND (0.097)	-	-	-	-	-	ND (0.080)
		4-Apr-13	RW-109_040413		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (2.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	0.532	0.585	0.174	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	0.051 J
		29-May-14	RW-109		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	0.591	0.632	0.301	0.121	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		19-May-15	RW-109_20150519		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	0.2 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	0.7	0.8	0.2 J	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.082)
	RW-600	5-Dec-06	RW-600		ND (0.5)	ND (0.7)	ND (0.8)	ND (0.8)	7.0	-	2.0 J	ND (1.0)	-	-	ND (1.0)	ND (0.0098)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND	ND	ND	-	0.071 J
		7-Nov-08	RW-600_110708		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	9	-	2	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (1)	-	ND (1)	ND (1)	-	-	-	-	-	ND (0.050)
		11-Dec-09	RW-600_121109		2	38	2	37	3	-	9	ND (5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		23-Jul-10	RW-600_072310		ND (1)	ND (1)	ND (1)	ND (1)	2	-	4	ND (5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1.0)
	S-71	8-Dec-09	S-71_120809		ND (1)	1	ND (1)	3	280	-	2	ND (5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		15-Jul-10	S-71_071510		2	1	ND (1)	3	440	-	6	ND (5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1.0)
		11-Jun-13	S-71_06_11_2013		1.1	1.2	ND (1)	3.6	237	-	10.1	ND (0.13)	ND (2)	ND (2)	ND (1)	ND (0.02)	ND (0.13)	0.89	0.315	0.363	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (3)
		19-Aug-16	S-71-20160819-WG		0.96 J	0.63 J	ND (1.0)	2.7 J	43.5	-	12.9	0.41	0.43 J	0.19 J	ND (1.0)	ND (0.040)	0.42	1.2	1.2	0.90	0.62	0.32	0.21	0.31	0.15	2.8 J
		4-Oct-16	S-71-20161004-WG		1.2	1.2	ND (1.0)	2.8 J	16.8	-	17.3	0.50	0.70 J	0.42 J	ND (1.0)	ND (0.040)	0.47	1.5	1.6	1.1	0.56	0.32	0.24	0.47	0.098 J	ND (5.0)
		18-Jun-19	S-71_20190618		1	0.5 J	0.3 J	3 J	25	390	19	ND (0.1)	0.4 J	ND (0.3)	ND (2)	ND (0.0095)	ND (0.1)	2	1	ND (0.1)	0.2 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		28-Apr-21	S-71_20210428		1.1	0.49 J	ND (1.0)	1.7 J	61	99	9.6	ND (0.51)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.030)	ND (0.51)	0.68	0.58	0.30 J	0.14 J	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	0.081 J

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 2	S-72	1-Jan-93 DM	S-72		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-
		1-Jan-94 DM	S-72		ND (250)	ND (250)	ND (250)	ND (500)	-	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-95 DM	S-72		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-96 DM	S-72		ND (0.3)	32	110	180	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		19-Nov-97	S-72		5	22	22	97	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		12-Nov-98	S-72		69	14	ND (10)	12	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	2	3	ND (3)	-	-
		2-Dec-99	S-72		ND (20)	ND (20)	ND (20)	ND (40)	-	-	-	-	-	-	-	-	1	-	-	-	-	ND (1)	ND (2)	ND (3)	-	-
		16-Nov-00	S-72		ND (100)	ND (100)	ND (100)	ND (200)	ND (100)	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-
		14-Nov-01	S-72		ND (1)	24	35	48	ND (1)	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
		7-Nov-08	S-72_110708		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (1)	-	ND (1)	ND (1)	-	-	-	-	-	ND (0.050)
		15-Jul-10	S-72_071510		ND (1)	2	ND (1)	4	ND (1)	-	35	ND (5)	ND (2)	ND (2)	ND (1)	ND (0.029)	14	13	10	20	-	-	-	-	-	ND (1.0)
		8-Nov-10	S-72		21	4	0.6 J	12	0.9 J	-	68	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	3 J	4 J	5 J	6	-	-	-	-	-	0.091 J
		28-Nov-11	S-72		8	1	ND (0.5)	1	ND (0.5)	-	32	ND (10)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	15	7.0	3.9	ND (1.0)	-	-	-	-	-	3.8
		29-May-14	S-72		10.8	0.66 J	ND (1.0)	ND (1.0)	0.50 J	-	7.0	47.7	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	4.43	19.8	24.9	8.38	ND (0.50)	2.31	2.05	3.46	1.35	ND (3.0)
		11-May-16	S-72-20160511		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	9	ND (0.5)	ND (2)	ND (2)	ND (1)	ND (0.029)	3	3	2	4	1	1	2	3	1	ND (1.0)
		16-Aug-16	S-72-20160816-WG		4.3	2.7	ND (1.0)	5.1	0.39 J	-	44.2	1.2	0.17 J	ND (1.0)	ND (1.0)	ND (0.040)	2.3	5.4	8.8	1.1	1.4	ND (1.0)	0.15 J	0.33 J	ND (1.0)	ND (5.0)
		5-Oct-16	S-72-20161005-WG		7.7	4.3	ND (1.0)	7.4	ND (1.0)	-	56.0	3.6	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.040)	5.0	7.5	9.8	8.9	6.9	2.3	2.5	6.2	2.1	ND (5.0)
	S-72D	7-Nov-05	S-72D_11_7_2005		ND (1)	ND (1)	ND (1)	ND (1)	1	-	-	ND (1)	-	-	ND (1)	ND (0.02)	ND (0.1)	0.3	ND (0.1)	ND (0.1)	-	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-
		5-Dec-06	S-72D		ND (0.5)	ND (0.7)	ND (0.8)	ND (0.8)	1.0 J	-	ND (1.0)	ND (1.0)	-	-	ND (1.0)	ND (0.0097)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	52	36	44	-	0.16 J
		9-Dec-09	S-72D_120909		15	ND (1)	ND (1)	1	ND (1)	-	ND (2)	ND (5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		23-Jul-10	S-72D_072310		ND (1)	ND (1)	ND (1)	1	1	-	ND (2)	ND (5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1.0)
		7-Apr-11	S-72D_04072011		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-
		7-Apr-11	S-72D_04072011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		28-Jun-11	S-72D_06282011		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-
		28-Jun-11	S-72D_06282011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		29-May-12	S-72D_52912		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1	-	ND (0.5)	ND (0.09)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	-	-	-	-	-	ND (1.0)
		17-Aug-12	S-72D_081712		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	2	-	ND (0.5)	ND (0.09)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.09)	0.1 J	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (1.0)
		25-Oct-12	S-72D_102512		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	1.5	-	ND (2.0)	ND (5.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	7.1
		27-Mar-13	S-72D_32713		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	1.5	-	ND (2.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		23-Aug-16	S-72D-20160823-WG		ND (1.0)	ND (1.0)	ND (1.0)	ND (3.0)	1.6	-	ND (1.0)	ND (0.10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.040)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (5.0)
		6-Oct-16	S-72D-20161006-WG		ND (1.0)	ND (1.0)	ND (1.0)	ND (3.0)	1.8	-	ND (1.0)	0.085 J	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.040)	ND (0.10)	0.041 J	0.055 J	0.024 J	0.018 J	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (5.0)
		17-Jun-19	S-72D_20190617		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	3	ND (10)	ND (0.3)	ND (0.09)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (1.1)
		28-Apr-21	S-72D_20210428		ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	1.0	15 J	ND (5.0)	ND (0.53)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	1.1
	S-73	1-Jan-93 DM	S-73		520	9	27	18	-	-	-	-	-	-	-	-	55	-	-	-	-	110	59 J	68 J	-	-
		1-Jan-94 DM	S-73		900	ND (250)	ND (250)	ND (500)	-	-	-	-	-	-	-	-	4 J	-	-	-	-	55	34	37	-	-
		28-Dec-95	S-73		430	34	ND	15 J	-	-	-	-	-	-	-	-	100	-	-	-	-	29	15	21	-	-
		1-Jan-96 DM	S-73		5.6	ND (0.3)	ND (0.4)	ND (0.6)	-	-	-	-	-	-	-	-	77	-	-	-	-	2	1	ND (1)	-	-
		19-Nov-97	S-73		840	49 J	61 J	55 J	-	-	-	-	-	-	-	-	39	-	-	-	-	13	7	7	-	-
		12-Nov-98	S-73		320	ND (10)	36	20	-	-	-	-	-	-	-	-	2	-	-	-	-	7	6	5	-	-
		2-Dec-99	S-73		400	ND (20)	110	31	-	-	-	-	-	-	-	-	14	-	-	-	-	23	15	13	-	-
		16-Nov-00	S-73		340	ND (10)	20	11	ND (10)	-	-	-	-	-	-	-	9	-	-	-	-	6	4	4	-	-
		14-Nov-01	S-73		220	ND (10)	10	10	ND (10)	-	-	-	-	-	-	-	31	-	-	-	-	4.7	2.9	3.7	-	-
		13-Nov-02	S-73		98	2	2	7	ND (1)	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-
		12-Nov-03	S-73		135	3.9	10.1	12.3	1.6	-	-	-	-	-	-	-	5.2	-	-	-	-	-	-	-	-	-
		21-Oct-04	S-73		100	ND (5.0)	11	14	ND (5.0)	-	99	ND (5.0)	-	-	ND (5.0)	ND (0.020)	3.7 J	56	80	12	-	-	-	-	-	ND (5.0)
		7-Nov-05	S-73_11_7_2005		53	ND (10)	ND (10)	13	ND (10)	-	-	ND (10)	-	-	ND (10)	ND (0.02)	1.6	40.9	38.6	4.7	-	1.6	0.8	1.5	0.3	-
	S-152	25-Jun-19	S-152_20190625		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	ND (0.2)	-	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 2	S-154	10-Nov-05	S-154_11_10_2005		2	ND (1)	ND (1)	3	5	-	-	ND (1)	-	-	ND (1)	ND (0.02)	ND (0.1)	0.2	ND (0.1)	0.1	-	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-
		18-Dec-07	S-154		29	12	2.0	39	-	-	5.0	3.0 J	-	-	ND (0.5)	ND (0.0095)	ND (0.9)	1.0 J	1.0 J	ND (0.9)	-	-	-	-	-	0.17 J
		18-Nov-09	S-154		35	22	8	73	47	-	14	3 J	12	5	ND (0.5)	ND (0.0097)	ND (49)	-	2.9	ND (0.11)	-	-	-	-	-	0.084 J
		11-Dec-09	S-154_121109		52	34	11	99	45	-	12	ND (50)	13	5	ND (1)	ND (0.029)	ND (50)	ND (50)	ND (50)	ND (50)	-	-	-	-	-	ND (1)
		23-Jul-10	S-154_072310		12	11	4	40	31	-	7	ND (5)	4	ND (2)	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1.0)
		18-Nov-10	S-154		44	53	24	220	50	-	12	5.8	29	9	ND (0.5)	ND (0.0096)	ND (3.3)	2.2	1.3	ND (0.10)	-	-	-	-	-	ND (0.052)
		28-Nov-11	S-154		2	0.8 J	ND (0.5)	6	26	-	3	ND (0.97)	0.9 J	0.8 J	ND (0.5)	ND (0.0098)	ND (0.078)	1.5	0.46	ND (0.097)	-	-	-	-	-	ND (0.080)
		5-Apr-13	S-154_040513		30.9	27.0	12.9	138	33.2	-	10.8	1.66	19.8	6.9	ND (1.0)	ND (0.020)	ND (0.10)	0.707	0.428	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	0.16 J
		5-Jun-13	S-154_06_05_2013		5.4	7.4	3.1	35.2	28.1	-	12.4	ND (0.1)	3.8	1.6 J	ND (1)	ND (0.02)	ND (0.1)	0.816	0.497	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (3)
		29-May-14	S-154		9.6	15.5	7.8	80.4	42.2	-	7.4	0.830	10.2	3.4	ND (1.0)	ND (0.023)	ND (0.10)	0.442	0.309	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		19-May-15	S-154_20150519		4	4	2	20	120	-	6	1	3	1 J	ND (0.5)	ND (0.0096)	ND (0.1)	1	0.9	ND (0.1)	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.098 J
		11-May-16	S-154-20160511		2	1	ND (1)	7	34	-	5	0.6	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (0.5)	0.9	0.6	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
		18-Aug-16	S-154-20160818-WG		4.6	6.6	4.5	46.1	36.3	-	6.9	1.4	7.9	2.4	ND (1.0)	ND (0.040)	ND (0.10)	1.1	0.91	0.070 J	0.092 J	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (5.0)
		18-Aug-16	S-154-HS-20160818-WG	Hydra Sleeve	ND (1.0)	0.32 J	ND (1.0)	2.0 J	29.7	-	5.1	0.20 J	0.26 J	ND (1.0)	ND (1.0)	ND (0.040)	ND (0.24)	0.51	0.23 J	0.042 J	0.045 J	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (5.0)
		18-Aug-16	S-154-20160818-WG-DUP	Field Duplicate	4.5	6.4	4.4	45.9	36.2	-	6.8	1.7	7.7	2.5	ND (1.0)	ND (0.040)	ND (0.12)	1.2	0.97	0.082 J	0.12 J	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (5.0)
		12-Oct-16	S-154-20161012-WG		3.4	5.1	3.9	41.4	35.6	-	7.3	0.94	8.1	2.5	ND (1.0)	ND (0.040)	0.011 J	0.92	0.69	0.080 J	0.14	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (5.0)
		12-Oct-16	S-154-HS-20161012-WG	Hydra Sleeve	ND (1.0)	ND (1.0)	ND (1.0)	1.0 J	30.3	-	4.0	1.2	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.040)	0.011 J	0.94	0.67	0.076 J	0.13	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (5.0)
		16-May-17	S-154-20170516		ND (5)	7 J	ND (5)	44	19	-	6 J	ND (0.1)	6 J	ND (5)	ND (5)	ND (0.0094)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.090)
		28-Jun-18	S-154_20180628		1.30	ND (1.00)	ND (1.00)	ND (3.00)	11.7	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	0.457	0.145	ND (0.0500)	0.106	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		28-Jun-18	S-154-HS_20180628	Hydra Sleeve	1.35	ND (1.00)	ND (1.00)	ND (3.00)	12.4	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	0.367	0.0809	ND (0.0500)	0.0807	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
	S-249	14-Dec-09	S-249_121409		ND (1)	ND (1)	ND (1)	ND (1)	3	-	ND (2)	ND (5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		22-Jul-10	S-249_072210		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1.0)
		18-Nov-10	S-249		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1	-	ND (0.5)	ND (0.96)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	0.061 J	ND (0.096)	0.040 J	ND (0.096)	-	-	-	-	-	ND (0.052)
		28-Nov-11	S-249		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1.0)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (0.080)	ND (0.10)	ND (0.080)	ND (0.10)	-	-	-	-	-	ND (0.080)
		4-Apr-13	S-249_040413		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	0.37 J	-	ND (2.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	0.19 J
		6-Jun-13	S-249_060613		ND (1)	ND (1)	ND (1)	ND (1)	1.1	-	ND (2)	ND (0.1)	ND (2)	ND (2)	ND (1)	ND (0.02)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (3)
		29-May-14	S-249		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.025)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	4.3
		19-May-15	S-249_20150519		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	0.1 J	ND (0.1)	ND (0.1)	0.1 J	ND (0.1)	ND (0.1)	0.1 J	0.2 J	0.2 J	0.098 J
		11-May-16	S-249-20160511		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (0.5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
		17-Aug-16	S-249-20160817-WG		ND (1.0)	ND (1.0)	ND (1.0)	ND (3.0)	0.78 J	-	ND (1.0)	0.24	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.040)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	0.011 J	ND (0.11)	ND (0.11)	ND (5.0)
		5-Oct-16	S-249-20161005-WG		ND (1.0)	ND (1.0)	ND (1.0)	ND (3.0)	ND (1.0)	-	ND (1.0)	0.050 B	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.040)	0.021 J	ND (0.10)	0.029 B	0.041 B	0.020 J	0.034 J	0.031 J	0.062 J	0.027 J	ND (5.0)
		17-May-17	S-249-20170517		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.090)
		22-Jun-18	S-249_20180622		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0101)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		27-Jun-19	S-249_20190627		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	ND (0.2)	-	ND (0.3)	ND (0.09)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0094)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (1.1)
		27-Jun-19	DUP-4_20190627	Field Duplicate	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	ND (0.2)	-	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0094)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		28-Apr-21	S-249_20210428		ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.56)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.52)
	S-294	15-Jul-10	S-294_071510		130	ND (10)	470	720	ND (10)	-	110	8,500	410	130	ND (10)	ND (0.029)	140	480	1,000	380	-	-	-	-	-	ND (1.0)
		4-Jun-13	S-294_06_04_2013		111	6	118	122	7.3	-	151	306	108	35	ND (1)	ND (0.02)	0.248	34.1	37.4	2.24	9.02 J	0.227	ND (0.1)	ND (0.1)	ND (0.1)	ND (3)
		17-Aug-16	S-294-20160817-WG		79.9	6.2	148	127	3.1	-	141	635	122	41.2	ND (1.0)	0.044	7.8	64.7	106	26.4	22.3	6.7	4.2	8.0	1.3	2.6 J
		5-Oct-16	S-294-20161005-WG		52.0	2.8	111	140	2.1	-	101	1,210	145	49.1	ND (1.0)	0.085	47.8	149	347	139	84.8	44.1	24.4	41.1	3.9	ND (5.0)
		31-Jul-18	S-294-20180731		64.2	5.04	90.8	56.7	3.38	192	134	667	83.8	26.1	ND (1.00)	ND (0.0101)	1.95	74.9	74.2	10.3	16.5	2.14	1.16	1.42	0.529	ND (2.00)
		31-Jul-18	S-294-20180731 DUP	Field Duplicate	61.2	5.00	95.2	59.0	3.22	191	125	666	79.6	25.5	ND (1.00)	ND (0.0100)	2.42	71.4	71.3	11.7	16.4	2.42	1.43	1.88	0.645	ND (2.00)
		17-Jun-19	S-294_20190617		49	6	260	320	2	91	140	3,000	240	84	ND (2)	ND (0.0095)	4	82	110	16	21	3	2	3	0.9	ND (1.1)
		27-Apr-21	S-294_20210427		46	6.8	340	350	ND (5.0)	ND (250)	130	1,300	150	47	ND (5.0)	ND (0.029)	3.7	64	92	15	18	3.6	2.1	2.3	0.85	ND (0.52)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 2	S-294D	23-Jul-10	S-294D_072310		ND (1)	1	17	19	ND (1)	-	3	140	15	6	ND (1)	ND (0.029)	ND (5)	6	8	ND (5)	-	-	-	-	-	ND (1.0)
		6-Apr-11	S-294D_04062011		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.8 J	-	0.8 J	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (1)	ND (1)	1 J	ND (1)	-	-	-	-	-	-
		6-Apr-11	S-294D_04062011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		28-Jun-11	S-294D_06282011		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.8 J	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-
		28-Jun-11	S-294D_06282011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		30-May-12	S-294D_53012		ND (0.5)	ND (0.5)	4	5	1	-	0.6 J	48	3	0.9 J	ND (0.5)	ND (0.0096)	0.6	2	4	1	-	-	-	-	-	ND (1.0)
		17-Aug-12	S-294D_081712		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.9 J	-	ND (0.5)	0.4 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	0.1 J	0.2 J	0.2 J	0.3 J	ND (0.09)	0.1 J	0.1 J	0.1 J	ND (0.09)	ND (1.0)
		26-Oct-12	S-294D_102612		ND (1.0)	ND (1.0)	2.1	2.5	1.1	-	ND (2.0)	20.6	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (3.0)
		1-Apr-13	S-294D_40113		88.6	4.5	107	107	5.4	-	117	521	96.0	30.4	ND (1.0)	ND (0.020)	0.487	48.7	57.1	2.97	11.3	0.514	0.282	0.345	0.168	3.2
		23-Aug-16	S-294D-20160823-WG		ND (1.0)	ND (1.0)	ND (1.0)	ND (3.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.040)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (5.0)
		23-Aug-16	S-294D-HS-20160823-WG	Hydra Sleeve	ND (1.0)	ND (1.0)	ND (1.0)	ND (3.0)	ND (1.0)	-	ND (1.0)	ND (0.14)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.040)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (5.0)
		12-Oct-16	S-294D-HS-20161012-WG	Hydra Sleeve	ND (1.0)	ND (1.0)	ND (1.0)	ND (3.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.040)	0.063 J	ND (0.10)	0.039 J	0.083 J	ND (0.10)	0.057 J	0.060 J	0.13	0.065 J	ND (5.0)
		12-Oct-16	S-394D-20161012-WG		ND (1.0)	ND (1.0)	ND (1.0)	ND (3.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.040)	0.014 J	ND (0.10)	ND (0.10)	0.026 J	ND (0.10)	ND (0.10)	0.012 J	0.031 J	ND (0.10)	ND (5.0)
		17-Jun-19	S-294D_20190617		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	3	ND (10)	ND (0.3)	ND (0.09)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	0.4 J	ND (0.09)	0.3 J	0.6	ND (0.09)	ND (0.09)	0.3 J	0.6	0.3 J	ND (1.1)
		27-Apr-21	S-294D_20210427		ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	2.8	ND (50)	ND (5.0)	ND (0.56)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.030)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	0.12 J	ND (0.56)	0.34 J
	S-302D	26-Jul-10	S-302D_072610		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1.0)
		7-Apr-11	S-302D_04072011		ND (0.5)	ND (0.5)	ND (0.5)	0.6 J	0.6 J	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.010)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-
		7-Apr-11	S-302D_04072011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		28-Jun-11	S-302D_06282011		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.5 J	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (1)	ND (1)	ND (1)	1 J	-	-	-	-	-	-
		28-Jun-11	S-302D_06282011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		29-May-12	S-302D_52912		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.09)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.09)	ND (0.09)	ND (0.09)	0.7	-	-	-	-	-	ND (1.0)
		17-Aug-12	S-302D_081712		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.6 J	-	ND (0.5)	ND (0.09)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.09)	ND (0.09)	ND (0.09)	0.8	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (1.0)
		25-Oct-12	S-302D_102512		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (2.0)	ND (5.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	5.5
		28-Mar-13	S-302D_032813		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	0.68 J	-	ND (2.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	0.521	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	5.0
		23-Aug-16	S-302D-20160823-WG		ND (1.0)	ND (1.0)	ND (1.0)	ND (3.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.040)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (5.0)
		23-Aug-16	S-302D-HS-20160823-WG	Hydra Sleeve	ND (1.0)	ND (1.0)	ND (1.0)	ND (3.0)	ND (1.0)	-	ND (1.0)	ND (0.13)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.040)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (5.0)
		12-Oct-16	S-302D-20161012-WG		ND (1.0)	ND (1.0)	ND (1.0)	ND (3.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.040)	ND (0.10)	ND (0.10)	ND (0.10)	0.052 J	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (5.0)
		12-Oct-16	S-302D-HS-20161012-WG	Hydra Sleeve	ND (1.0)	ND (1.0)	ND (1.0)	ND (3.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.040)	ND (0.10)	ND (0.10)	ND (0.10)	0.055 J	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (5.0)
		17-Jun-19	S-302D_20190617		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	2	400	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	0.5	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		17-Jun-19	DUP-1	Field Duplicate	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	3	450	ND (0.3)	ND (0.09)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.09)	ND (0.09)	ND (0.09)	0.5	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (1.1)
		28-Apr-21	S-302D_20210428		ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	0.64 J	600	ND (5.0)	ND (0.54)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.54)	ND (0.54)	ND (0.54)	0.41 J	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.52)
	S-306	9-Jul-10	S-306_070910		740	52	490	300	ND (1)	-	73	670	40	52	ND (1)	ND (0.028)	ND (500)	ND (500)	850	ND (500)	-	-	-	-	-	ND (1.0)
		6-Jun-13	S-306_060613		270	11.4	5.1	50.6	2.7	-	53.5	ND (0.1)	6.7	8.6	ND (1)	ND (0.02)	ND (0.1)	6.41	9.33	0.349	1.1	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (3)
		19-Aug-16	S-306-20160819-WG		148	5.6	4.6	40.0	0.84 J	-	57.7	5.6	9.5	7.2	ND (1.0)	0.035 J	0.25	12.8	21.5	2.7	7.2	0.18	0.086 J	0.061 J	0.051 J	ND (5.0)
		19-Aug-16	S-306-HS-20160819-WG	Hydra Sleeve	13.8	2.1	0.68 J	10.6	0.32 J	-	34.0	1.2	1.9	2.1	ND (1.0)	0.041	0.033 J	3.0	3.5	0.42	0.71	0.031 J	0.022 J	ND (0.15)	ND (0.15)	ND (5.0)
		12-Oct-16	S-306-20161012-WG		185	5.1	6.2	43.2	1.1	-	52.3	2.8	12.6	7.4	ND (1.0)	0.028 J	0.17	5.8	11.7	0.93	1.6	0.070 J	0.030 J	0.029 J	0.020 J	ND (25.0)
		12-Oct-16	S-306-HS-20161012-WG	Hydra Sleeve	43.1	1.8	1.2	8.8	0.42 J	-	17.6	1.3	1.7	1.4	ND (1.0)	0.035 J	ND (0.10)	2.1	3.6	0.36	0.39	ND (0.10)	0.011 J	ND (0.10)	ND (0.10)	ND (25.0)
		18-Jun-19	S-306_20190618		3	4	2	8	ND (0.2)	10 J	33	ND (0.09)	0.6 J	1 J	ND (2)	ND (0.0095)	ND (0.09)	3	4	0.5 J	0.7	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (1.1)
		29-Apr-21	S-306_20210429		1.1	0.42 J	0.52 J	9.7	ND (1.0)	ND (50)	7.9	ND (0.54)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.54)	2.3	1.2	0.14 J	0.37 J	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.52)
	S-337	12-Jun-13	S-337_06_12_2013		52.8	19.3	32.8	26	ND (1)	-	32.5	38.3	88.8	171	ND (1)	ND (0.02)	0.184	0.674	0.425	0.409	0.165	0.143	ND (0.1)	ND (0.1)	ND (0.1)	ND (3)
		11-Aug-16	S-337-20160811-WG		13.9	3.1	1.8	1.9 J	0.27 J	-	26.2	1.9	2.2	6.7	ND (1.0)	ND (0.040)	0.42	0.44	ND (0.11)	1.0	ND (0.11)	0.29	0.22	0.27	0.18	ND (5.0)
		6-Oct-16	S-337-20161006-WG		14.5	2.9	5.3	1.8 J	ND (1.0)	-	26.9	0.74	1.4	5.3	ND (1.0)	ND (0.040)	0.040 J	0.29	0.13	0.13	0.040 J	0.031 J	0.020 J	0.042 J	ND (0.10)	ND (5.0)
		6-Oct-16	S-337-20161006-WG-DUP	Field Duplicate	13.8	2.9	5.0	1.4 J	ND (1.0)	-	24.2	0.74	1.3	4.9	ND (1.0)	ND (0.040)	0.087 J	0.34	0.17	0.24	0.067 J	0.055 J	0.046 J	0.085 J	ND (0.10)	ND (5.0)
		8-Jul-19	S-337_SL_20190708		10 SL	4 SL	7 SL	2 J SL	ND (0.2) SL	ND (10) SL	49 SL	ND (0.1) SL	2 J SL	9 SL	ND (2) SL	ND (0.0095) SL	ND (0.1) SL	1 SL	1 SL	0.4 J SL	ND (0.1) SL	0.1 J SL	ND (0.1) SL	ND (0.1) SL	ND (0.1) SL	ND (1.1) SL
		28-Apr-21	S-337_SL_20210428		3.9 SL	2.0 SL	1.6 SL	2.3 J SL	ND (1.0) SL	ND (50) SL	27 SL	ND (0.50) SL	ND (5.0) SL	2.1 J SL	ND (1.0) SL	ND (0.029) SL	0.14 J SL	0.35 J SL	ND (0.50) SL	0.38 J SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.52) SL
	S-351	4-Jun-13	S-351_06_04_2013		4.1	0.73 J	7.4	6.4	1.5	-	27	42.5	8.8	2.1	ND (1)	ND (0.02)	0.158	4	3.35	0.787	1.43	0.142	ND (0.1)	ND (0.1)	ND (0.1)	ND (3)
		19-May-15	S-351_20150519		2	ND (0.5)	0.6 J	0.6 J	ND (0.5)	-	8	1	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	0.3 J	2	3	1	1	0.3 J	0.1 J	0.1 J	ND (0.1)	0.31 J
		12-May-16	S-351-20160512		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (0.5)	ND (2)	ND (2)	ND (1)	ND (0.030)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
		17-Aug-16	S-351-20160817-WG		0.66 J	ND (1.0)	ND (1.0)	ND (3.0)	ND (1.0)	-	2.4	0.13	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.040)	ND (0.10)	0.38	0.33	0.035 J	0.087 J	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (5.0)
		5-Oct-16	S-351-20161005-WG		1.2	ND (1.0)	ND (1.0)	ND (3.0)	ND (1.0)	-	3.2	0.28	ND (1.0)	ND (1.0)	ND (1.0)	0.036 J	0.029 J	0.41	0.39	0.11	0.18	0.032 J	0.011 J	0.021 J	ND (0.10)	ND (10.0)
		17-May-17	S-351-20170517		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	2 J	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	ND (0.1)	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.090)
		25-Jun-18	S-351_20180625		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	1.87	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	0.161	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 2	S-354	5-Jun-13	S-354_06_05_2013		0.48 J	0.77 J	0.48 J	1.6	ND (1)	-	26.2	ND (0.1)	0.53 J	ND (2)	ND (1)	ND (0.02)	ND (0.1)	1.65	0.57	0.289	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (3)
		16-Aug-16	S-354-20160816-WG		ND (1.0)	ND (1.0)	ND (1.0)	ND (3.0)	ND (1.0)	-	9.4	1.2	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.040)	0.35	2.1	0.94	0.33	1.1	ND (0.14)	0.059 J	0.10 J	0.032 J	7.1 J
		17-May-17	S-354-20170517		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	2 J	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0094)	0.2 J	0.4 J	0.1 J	0.3 J	0.2 J	ND (0.1)	ND (0.1)	0.1 J	ND (0.1)	0.094 J
		22-Jun-18	S-354_20180622		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		17-Jun-19	S-354_20190617		ND (0.2)	0.8 J	0.3 J	ND (0.5)	ND (0.2)	ND (10)	ND (0.3)	6	0.4 J	ND (0.3)	ND (2)	ND (0.0094)	ND (0.1)	0.5	0.9	0.4 J	0.2 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		28-Apr-21	S-354_20210428		ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.54)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.030)	0.17 J	ND (0.54)	0.17 J	0.29 J	ND (0.54)	0.16 J	0.17 J	0.24 J	0.16 J	1.3
	S-355	5-Jun-13	S-355_06_05_2013		1.2	1.7	0.97 J	5.1	11.1	-	90.5	ND (0.2)	1.4 J	0.47 J	ND (1)	ND (0.02)	ND (0.2)	3.06	3.75	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (3)
		22-Aug-16	S-355-20160822-WG		0.82 J SL	3.1 SL	ND (1.0) SL	14.2 SL	68.1 SL	-	42.7 SL	1.6 SL	0.22 J SL	0.59 J SL	ND (1.0) SL	ND (0.040) SL	0.19 SL	4.2 SL	5.6 SL	0.40 SL	1.7 SL	0.068 J SL	0.039 J SL	0.058 J SL	ND (0.11) SL	ND (5.0) SL
		3-Oct-16	S-355-20161003-WG		ND (1.0) SL	0.84 J SL	ND (1.0) SL	2.1 J SL	40.4 SL	-	11.1 SL	0.93 SL	ND (1.0) SL	ND (1.0) SL	ND (1.0) SL	ND (0.040) SL	0.16 SL	2.2 SL	2.1 SL	0.28 SL	2.2 SL	0.041 J SL	0.027 J SL	0.054 J SL	0.053 J SL	ND (5.0) SL
		2-Jul-19	S-355_SL_20190702		0.6 J SL	1 J SL	ND (0.2) SL	2 J SL	1 SL	23 J SL	46 SL	ND (0.1) SL	ND (0.3) SL	ND (0.3) SL	ND (2) SL	ND (0.0094) SL	ND (0.1) SL	17 SL	39 SL	2 SL	ND (0.1) SL	ND (0.1) SL	ND (0.1) SL	ND (0.1) SL	ND (0.1) SL	ND (1.1) SL
		27-Apr-21	S-355_SL_20210427		1.2 SL	3.2 SL	0.71 J SL	5.4 J SL	2.9 SL	35 J SL	22 SL	ND (0.50) SL	ND (5.0) SL	0.35 J SL	ND (1.0) SL	ND (0.029) SL	ND (0.50) SL	1.7 SL	0.95 SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	0.20 J SL
	S-357	22-Aug-16	S-357-20160822-WG		1.1 SL	0.46 J SL	ND (1.0) SL	1.4 J SL	0.65 J SL	-	7.3 SL	0.62 J SL	0.54 J SL	0.19 J SL	ND (1.0) SL	ND (0.040) SL	4.6 SL	0.40 J SL	1.9 SL	8.1 SL	5.8 SL	2.2 SL	1.4 SL	1.3 SL	0.90 J SL	ND (5.0) SL
		4-Oct-16	S-357-20161004-WG		2.8 J SL	ND (5.0) SL	ND (5.0) SL	ND (15.0) SL	ND (5.0) SL	-	21.1 SL	2.1 SL	ND (5.0) SL	ND (5.0) SL	ND (5.0) SL	0.058 SL	15.5 SL	1.3 SL	3.9 SL	27.3 SL	13.4 SL	7.5 SL	4.6 SL	4.8 SL	2.2 SL	ND (5.0) SL
		2-Jul-19	S-357_SL_20190702		2 SL	0.9 J SL	0.4 J SL	3 J SL	1 SL	28 SL	10 SL	ND (0.1) SL	0.6 J SL	ND (0.3) SL	ND (2) SL	ND (0.0094) SL	ND (0.1) SL	ND (0.1) SL	ND (0.1) SL	0.9 SL	0.6 SL	ND (0.1) SL	ND (0.1) SL	ND (0.1) SL	ND (0.1) SL	ND (1.1) SL
		28-Apr-21	S-357_SL_20210428		1.4 SL	0.67 J SL	ND (1.0) SL	ND (6.0) SL	0.47 J SL	ND (50) SL	5.9 SL	ND (0.50) SL	ND (5.0) SL	ND (5.0) SL	ND (1.0) SL	ND (0.029) SL	0.72 SL	ND (0.50) SL	ND (0.50) SL	1.1 SL	0.59 SL	0.44 J SL	0.26 J SL	0.12 J SL	0.21 J SL	ND (0.52) SL
	S-422	10-Aug-16	S-422-20160810-WG		0.41 J	0.50 J	ND (1.0)	38.7	ND (1.0)	-	5.3	0.88	17.1	7.5	ND (1.0)	ND (0.040)	ND (0.11)	0.13	0.19	0.046 J	0.098 J	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (5.0)
		5-Oct-16	S-422-20161005-WG		0.72 J	0.33 J	ND (1.0)	2.3 J	ND (1.0)	-	6.7	0.26 B	5.3	6.9	ND (1.0)	ND (0.040)	ND (0.10)	0.077 B	0.11 B	0.052 B	0.086 J	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (5.0)
		18-Jun-19	S-422_20190618		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	ND (0.2)	ND (10)	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0094)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		27-Apr-21	S-422_20210427		ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	0.31 J	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	0.091 J
	S-423	16-Aug-16	S-423-20160816-WG		1.6	1.4	ND (1.0)	1.3 J	51.6	-	32.4	1.7 J-	0.62 J	ND (1.0)	ND (1.0)	ND (0.040)	3.9 J-	6.7 J-	9.2 J-	0.98 J-	1.5 J-	ND (0.11) J	ND (0.71) J	0.54 J-	0.076 J-	3.0 J
		5-Oct-16	S-423-20161005-WG		1.8	1.3	ND (1.0)	0.92 J	42.7	-	32.5	0.48	0.48 J	ND (1.0)	ND (1.0)	ND (0.040)	0.72	2.8	4.6	0.36	0.48	0.16	0.084 J	0.16	0.031 J	ND (5.0)
		3-Jul-18	S-423_20180703		ND (1.00) SL	1.60 SL	ND (1.00) SL	ND (3.00) SL	34.4 SL	-	64.5 SL	1.23 OE SL	1.07 SL	ND (1.00) SL	ND (1.00) SL	ND (0.0100) SL	0.155 SL	4.60 SL	3.90 SL	0.161 SL	0.206 SL	0.0797 SL	ND (0.0500) SL	ND (0.0500) SL	ND (0.0500) SL	ND (2.00) SL
		2-Jul-19	S-423_SL_20190702		0.7 J SL	1 SL	0.5 J SL	1 J SL	4 SL	54 SL	61 SL	ND (0.1) SL	0.6 J SL	ND (0.3) SL	ND (2) SL	ND (0.0094) SL	ND (0.1) SL	7 SL	11 SL	1 SL	1 SL	ND (0.1) SL	ND (0.1) SL	ND (0.1) SL	ND (0.1) SL	4.3 SL
		27-Apr-21	S-423_SL_20210427		0.64 J SL	1.4 SL	ND (1.0) SL	ND (6.0) SL	5.1 SL	69 SL	33 SL	ND (0.50) SL	ND (5.0) SL	ND (5.0) SL	ND (1.0) SL	ND (0.029) SL	ND (0.50) SL	3.4 SL	3.3 SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	2.5 SL
	S-425	8-Nov-17	S-425-20171108-WG		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	3.33	1.12	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	0.515	1.21	0.450	0.983	0.924	0.411	0.168	0.194	0.115	ND (2.00)
		13-Dec-17	S-425-20171213-WG		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	1.54	0.422	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	0.360	0.515	0.391	0.867	0.835	0.421	0.210	0.210	0.137	ND (5.00)
		18-Jun-19	S-425_20190618		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	0.2 J	ND (10)	ND (0.3)	0.4 J	ND (0.3)	ND (0.3)	ND (2)	ND (0.0096)	0.9	ND (0.1)	0.7	1	0.6	0.6	0.7	0.7	0.4 J	ND (1.1)
		30-Apr-21	S-425_20210430		0.48 J	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.55)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	17
	S-427	8-Nov-17	S-427-20171108-WG		61.0	ND (1.00)	ND (1.00)	ND (3.00)	16.4	-	ND (1.00)	0.425	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	0.441	2.79	1.99	2.87	ND (0.0500)	0.208	0.121	0.190	0.0968	ND (2.00)
		13-Dec-17	S-427-20171213-WG		24.9	9.97	ND (1.00)	ND (3.00)	3.24	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	0.456	1.39	2.07	3.38	ND (0.0500)	0.228	0.143	0.220	0.104	ND (5.00)
		18-Jun-19	S-427_20190618		0.3 J	ND (0.2)	ND (0.2)	ND (0.5)	ND (0.2)	ND (10)	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0094)	1	ND (0.1)	5	8	11	0.8	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		29-Apr-21	S-427_20210429		ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	0.17 J	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	0.27 J	0.81	0.72	0.74	0.87	0.12 J	ND (0.55)	ND (0.55)	ND (0.55)	0.17 J
AOI 3	BF-103R	12-Dec-07	BF-103R		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1.0	-	ND (0.5)	ND (1.0)	-	-	ND (0.5)	ND (0.0095)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND	ND	ND	-	0.065 J
		1-Dec-09	BF-103R_120109		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	1.4
		16-Jul-10	BF-103R_071610		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	ND (2)	ND (2)	ND (1)	ND (0.030)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	1.2
		27-Aug-13	AOI3_BF-103R_082713		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (2.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		9-Jun-15	AOI3_BF-103R_060915		3.6	6.1	0.59 J	3.6	ND (1.0)	-	ND (1.0)	0.23 J	0.91 J	0.25 J	ND (1.0)	0.086	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
		31-Dec-15	AOI3_BF-103R_123115		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (0.11)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.019)	ND (0.11)	ND (0.11)	0.155	ND (0.11)	ND (0.11)	ND (0.056)	ND (0.056)	ND (0.11)	ND (0.11)	ND (3.0)
		26-Feb-19	BF-103R_20190226		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	ND (0.2)	-	ND (0.3)	-	-	-	ND (2)	ND (0.3)	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE µg/L	TOLUENE µg/L	ETHYLBENZENE µg/L	XYLENES, TOTAL (DIMETHYLBENZENE) µg/L	METHYL TERTIARY BUTYL ETHER µg/L	TERT-BUTYL ALCOHOL µg/L	ISOPROPYLBENZENE (CUMENE) µg/L	NAPHTHALENE µg/L	1,2,4-TRIMETHYLBENZENE µg/L	1,3,5-TRIMETHYLBENZENE µg/L	1,2-DICHLOROETHANE (EDC) µg/L	1,2-DIBROMOETHANE (EDB) µg/L	CHRYSENE µg/L	FLUORENE µg/L	PHENANTHRENE µg/L	PYRENE µg/L	ANTHRACENE µg/L	BENZO(A)ANTHRACENE µg/L	BENZO(A)PYRENE µg/L	BENZO(B)FLUORANTHENE µg/L	BENZO(G,H,I)PERYLENE µg/L	LEAD, Dissolved µg/L
AOI 3	S-1	1-Jan-85 DM	S-1		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-86 DM	S-1		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-88 DM	S-1		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND (10)	ND (10)	ND (10)	-	-
		1-Jan-93 DM	S-1		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-94 DM	S-1		ND (50)	ND (50)	ND (50)	ND (100)	-	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		28-Dec-95	S-1		2.7	ND	ND	0.8 J	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-96 DM	S-1		ND (0.3)	ND (0.3)	ND (0.4)	ND (0.6)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		19-Nov-97	S-1		ND (1)	ND (1)	ND (1)	2	-	-	-	-	-	-	-	-	ND (10)	-	-	-	-	1	1	ND (1)	-	-
		12-Nov-98	S-1		ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	ND (10)	-	-	-	-	1.2	ND (2)	ND (3)	-	-
		2-Dec-99	S-1		ND (1)	ND (1)	ND (1)	ND (2)	-	-	-	-	-	-	-	-	1	-	-	-	-	ND (10)	ND (20)	ND (30)	-	-
		16-Nov-00	S-1		ND (1)	ND (1)	ND (1)	ND (2)	10	-	-	-	-	-	-	-	1.4	-	-	-	-	-	-	-	-	-
		14-Nov-01	S-1		ND (1)	ND (1)	ND (1)	3	38	-	-	-	-	-	-	-	12	-	-	-	-	1.0 J	1.0 J	0.88 J	-	-
		13-Nov-03	S-1		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	-	-	1.1 J	-	-	-	-	-	-	-	-	-
		21-Oct-04	S-1		ND (1.0)	ND (5.0)	ND (5.0)	ND (10)	ND (5.0)	-	ND (5.0)	ND (5.0)	-	-	ND (5.0)	ND (0.020)	ND (0.14)	ND (9.8)	ND (9.8)	ND (9.8)	-	-	-	-	-	ND (5.0)
		8-Nov-05	S-1_11_8_2005		ND (1)	ND (1)	ND (1)	ND (1)	23	-	-	ND (1)	-	-	ND (1)	ND (0.02)	0.5	ND (0.3)	ND (0.3)	1.5	-	0.5	0.5	1	ND (0.3)	-
		30-Nov-06	S-1		ND (0.5)	0.8 J	ND (0.8)	ND (0.8)	ND (0.5)	-	ND (1.0)	2.0 J	-	-	ND (1.0)	ND (0.0097)	1.0 J	ND (1.0)	ND (1.0)	2.0 J	-	ND	ND	ND	-	0.44 J
		11-Dec-07	S-1		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1.0)	-	-	ND (0.5)	ND (0.0095)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND	ND	ND	-	0.63 J
		4-Nov-08	S-1_110408		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (1)	-	ND (1)	ND (1)	-	-	-	-	-	0.067 J
		12-Nov-09	S-1		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	1.4	-	0.78	3.2	-	-	-	-	-	1.9
		1-Dec-09	S-1_120109		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (47)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (47)	ND (47)	ND (47)	ND (47)	-	-	-	-	-	3.5
		21-Jul-10	S-1_072110		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1.0)
		15-Nov-10	S-1		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.96)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	0.7	0.94	0.33	2.1	-	-	-	-	-	0.10 J
		18-Nov-11	S-1		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (9.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	6.9	1.6 J	ND (0.76)	6.1	-	-	-	-	-	0.24 J
		4-Apr-13	S-1_040413		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (2.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	0.242	0.502	ND (0.10)	0.678	0.282	0.233	0.258	0.227	0.260	0.52 J
		29-Aug-13	AOI3_S-1_082913		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (2.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		30-May-14	S-1		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	0.118	0.235	ND (0.10)	0.251	ND (0.10)	0.110	0.150	0.204	ND (0.10)	11.6
		15-Jun-15	AOI3_S-1_061515		ND (1.0)	541	ND (1.0)	ND (3.0)	ND (1.0)	-	ND (1.0)	0.093 J	ND (1.0)	ND (1.0)	ND (1.0)	0.097	0.26	0.76	0.18	0.82	0.67	0.30	0.32	0.53	0.18	ND (5.0)
		31-Dec-15	AOI3_S-1_123115		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (0.11)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.018)	0.239	ND (0.11)	ND (0.11)	0.317	0.316	0.157	0.261	0.311	0.254	ND (3.0)
		12-May-16	S-1-20160512		ND (1)	1	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (0.5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 3	S-3	1-Jan-85 DM	S-3		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-86 DM	S-3		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-88 DM	S-3		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND (10)	ND (10)	ND (10)	-	-
		1-Jan-93 DM	S-3		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-94 DM	S-3		2 J	ND (5)	ND (5)	ND (10)	-	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		28-Dec-95	S-3		1.3	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-96 DM	S-3		ND (0.3)	ND (0.3)	ND (0.4)	ND (0.6)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		19-Nov-97	S-3		ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		12-Nov-98	S-3		ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (2)	ND (3)	-	-
		2-Dec-99	S-3		ND (1)	ND (1)	ND (1)	ND (2)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	2	2	ND (3)	-	-
		16-Nov-00	S-3		ND (1)	ND (1)	ND (1)	ND (2)	94	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		14-Nov-01	S-3		52	ND (2)	ND (2)	ND (4)	ND (2)	-	-	-	-	-	-	-	3	-	-	-	-	ND (2.0)	ND (2.0)	ND (2.0)	-	-
		13-Nov-02	S-3		ND (1)	ND (1)	ND (1)	ND (1)	4	-	-	-	-	-	-	-	ND (2)	-	-	-	-	-	-	-	-	-
		13-Nov-03	S-3		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	4.3	-	-	-	-	-	-	-	ND (2.0)	-	-	-	-	-	-	-	-	-
		21-Oct-04	S-3		ND (1.0)	ND (5.0)	ND (5.0)	ND (10)	19	-	ND (5.0)	ND (5.0)	-	-	ND (5.0)	ND (0.020)	ND (0.14)	ND (9.8)	ND (9.8)	ND (9.8)	-	-	-	-	-	ND (5.0)
		8-Nov-05	S-3_11_8_2005		ND (1)	ND (1)	ND (1)	ND (1)	13	-	-	ND (1)	-	-	ND (1)	ND (0.02)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-
		30-Nov-06	S-3		ND (0.5)	ND (0.7)	ND (0.8)	ND (0.8)	0.7 J	-	ND (1.0)	4.0 J	-	-	ND (1.0)	ND (0.0096)	ND (1.0)	ND (1.0)	1.0 J	2.0 J	-	ND	ND	ND	-	0.43 J
		11-Dec-07	S-3		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	6.0	-	ND (0.5)	ND (1.0)	-	-	ND (0.5)	ND (0.0095)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND	ND	ND	-	0.27 J
		6-Nov-08	S-3_110608		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	7	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0099)	ND (1)	-	ND (1)	ND (1)	-	-	-	-	-	ND (0.050)
		19-Nov-09	S-3		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.5 J	-	ND (0.5)	ND (1)	0.6 J	ND (0.5)	ND (0.5)	ND (0.0097)	0.16 J	-	0.13 J	0.35 J	-	-	-	-	-	0.29 J
		1-Dec-09	S-3_120109		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	ND (2)	ND (2)	ND (1)	ND (0.03)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		21-Jul-10	S-3_072110		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1.0)
		17-Nov-10	S-3		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1	-	3	ND (1.0)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	0.11 J	ND (0.10)	0.092 J	0.13 J	-	-	-	-	-	10.5
		21-Nov-11	S-3		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	2	-	ND (0.5)	ND (1.0)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	ND (0.081)	ND (0.10)	ND (0.081)	ND (0.10)	-	-	-	-	-	0.28 J
		3-Apr-13	S-3_040313		3.1	0.46 J	0.65 J	3.0	2.9	-	ND (2.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	0.73 J
		29-Aug-13	S-3_082913		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	0.33 J	-	ND (2.0)	ND (0.11)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (3.0)
		30-May-14	S-3		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	0.53 J	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.025)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	2.3 J
		12-Jun-15	AOI3_S-3_061215		ND (1.0)	ND (1.0)	ND (1.0)	ND (3.0)	2.4	-	ND (1.0)	0.053 J	ND (1.0)	ND (1.0)	ND (1.0)	0.063	0.011 J	ND (0.10)	ND (0.10)	0.019 J	ND (0.10)	0.022 J	ND (0.10)	ND (0.10)	ND (0.10)	ND (5.0)
		18-Dec-15	AOI3_S-3_121815		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	2.4	-	ND (1.0)	ND (0.11)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.053)	ND (0.053)	ND (0.11)	ND (0.11)	ND (3.0)
		12-May-16	S-3-20160512		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (0.5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
		22-May-17	S-3-20170522		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	ND (0.1)	ND (0.1)	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.13 J
		25-Jun-18	S-3_20180625		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
	S-13	30-Nov-09	S-13_113009		ND (1)	3	35	140	1	-	ND (2)	ND (5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	2.3
		24-May-12	S-13_52412		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	33	-	ND (0.5)	0.1 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.1)	ND (0.1)	ND (0.1)	0.2 J	-	-	-	-	-	ND (1.0)
		16-Aug-12	S-13_081612		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	42	-	ND (0.5)	0.2 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	0.2 J	ND (0.09)	ND (0.09)	0.5 J	ND (0.09)	0.2 J	0.2 J	0.3 J	0.2 J	1.3
		1-Nov-12	S-13_110112		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	47.4	-	ND (5.0)	ND (0.10)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.015) *	ND (0.10)	ND (0.10)	0.22	0.051 J	0.050 J	ND (0.050)	ND (0.10)	ND (0.050)	ND (0.10)	ND (5.0)
		29-Mar-13	S-13_32913		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	47.6	-	ND (2.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	5.3
		15-Jun-15	AOI3_S-13_061515		ND (1.0)	ND (1.0)	ND (1.0)	ND (3.0)	156	-	ND (1.0)	0.12	ND (1.0)	ND (1.0)	ND (1.0)	0.051	ND (0.10)	ND (0.10)	0.021 J	ND (0.10)	0.025 J	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (5.0)
		29-Dec-15	AOI3_S-13_122915		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	94.3	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.019)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.050)	ND (0.10)	ND (0.10)	ND (3.0)
		25-Sep-18	S-13_20180925		ND (0.2)	-	-	-	240	1,500 E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		31-Oct-18	S-13_20181031		ND (0.2)	-	-	-	120	1,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		19-Jun-19	S-13_20190619		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	400	1,200 E	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0094)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		26-Apr-21	S-13_20210426		1.9	ND (1.0)	ND (1.0)	ND (6.0)	180	1,200 E	ND (5.0)	ND (0.58)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.030)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	0.15 J
		26-Apr-21	DUP-3_20210426	Field Duplicate	2.0	0.22 J	ND (1.0)	ND (6.0)	200	1,300 E	ND (5.0)	ND (0.52)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	0.088 J
	S-20	30-Nov-09	S-20_113009		9	2	3	7	98	-	20	ND (5)	2	ND (2)	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		16-Jul-10	S-20_071610		ND (1)	ND (1)	ND (1)	3	97	-	15	ND (5)	ND (2)	ND (2)	ND (1)	ND (0.030)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1.0)
		22-Aug-13	AOI3-S-20_082213		1.4	1.8	0.31 J	4.1	71.7	-	16.0	ND (0.10)	0.21 J	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	0.713	0.644	ND (0.10)	0.374	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		11-Jun-15	AOI3_S-20_061115		1.8	4.0	0.88 J	9.2	81.8	-	18.0	2.4	2.2	0.81 J	ND (1.0)	0.074	ND (0.51)	1.1	0.80	0.19 J	0.51 J	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (5.0)
		16-Dec-15	AOI3_S-20_121615		1.9	2.2	0.45 J	7.7	71.8	-	20.3	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.019)	ND (0.10)	0.736	0.662	ND (0.10)	0.491	ND (0.050)	ND (0.050)	ND (0.10)	ND (0.10)	ND (3.0)
		20-Jun-19	S-20_20190620		0.4 J	2	0.4 J	6	41	770	16	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.1)	1	1	ND (0.1)	0.5	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		26-Apr-21	S-20_20210426		2.2	1.8	ND (1.0)	4.9 J	29	650	14	ND (0.61)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.61)	0.43 J	0.39 J	ND (0.61)	0.27 J	ND (0.61)	ND (0.61)	ND (0.61)	ND (0.61)	ND (0.52)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 3	S-22	30-Nov-09	S-22_113009		33	44	4	110	66	-	9	ND (5)	4	12	ND (1)	ND (0.03)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		16-Jul-10	S-22_071610		6	7	ND (1)	17	48	-	ND (2)	ND (5)	ND (2)	2	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1.0)
		7-Apr-11	S-22_04072011		20	43	5	110	75	-	10	3 J	2 J	9	ND (0.5)	ND (0.0098)	ND (1)	ND (1)	1 J	ND (1)	-	-	-	-	-	-
		7-Apr-11	S-22_04072011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		29-Jun-11	S-22_06292011		28	53	7	140	49	-	10 J	1 J	ND (3)	10 J	ND (3)	ND (0.0096)	ND (0.9)	ND (0.9)	ND (0.9)	ND (0.9)	-	-	-	-	-	-
		29-Jun-11	S-22_06292011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		1-Jun-12	S-22D_6112		20	50	4	120	56	-	12	ND (0.09)	2	14	ND (0.5)	ND (0.0097)	ND (0.09)	1	1	ND (0.09)	-	-	-	-	-	ND (1.0)
		21-Aug-12	S-22_082112		15	38	3	92	60	-	10	0.4 J	2 J	12	ND (0.5)	ND (0.0096)	ND (0.1)	0.9	0.7	ND (0.1)	0.3 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.0)
		1-Nov-12	S-22_110112		13.2	33.3	2.0	57.5	72.3	-	10.1	0.28	1.2 J	7.5	ND (1.0)	ND (0.015) *	ND (0.10)	0.48	1.0	0.072 J	0.24	ND (0.050)	ND (0.10)	ND (0.050)	ND (0.10)	ND (5.0)
		25-Mar-13	S-22_32513		18.6	41.9	4.4	127	67.0	-	12.4	ND (0.10)	2.1	10.7	ND (1.0)	ND (0.020)	ND (0.10)	0.455	0.671	ND (0.10)	0.242	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		11-Jun-15	AOI3_S-22_061115		16.2	28.7	2.9	42.6	79.1	-	9.1	1.9	2.3	7.1	ND (1.0)	0.080	ND (0.10)	0.43	0.72	ND (0.10)	0.44	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (5.0)
		16-Dec-15	AOI3_S-22_121615		5.6	7.2	0.90 J	16.5	35.7	-	3.2	ND (0.10)	0.45 J	1.9 J	ND (1.0)	ND (0.021)	ND (0.10)	0.178	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.050)	ND (0.10)	ND (0.10)	ND (3.0)
		9-Jul-19	S-22_20190709		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	ND (0.2)	ND (10)	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
	S-25	1-Jan-85 DM	S-25		ND	ND	ND	5	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-86 DM	S-25		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-88 DM	S-25		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND (10)	ND (10)	ND (10)	-	-
		1-Jan-93 DM	S-25		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-94 DM	S-25		ND (5)	ND (5)	ND (5)	ND (10)	-	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-96 DM	S-25		ND (0.3)	ND (0.3)	ND (0.4)	ND (0.6)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		19-Nov-97	S-25		ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		12-Nov-98	S-25		ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (10)	ND (2)	ND (3)	-	-
		2-Dec-99	S-25		ND (1)	ND (1)	ND (1)	ND (2)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (2)	ND (3)	-	-
		16-Nov-00	S-25		ND (1)	ND (1)	ND (1)	ND (2)	140	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		14-Nov-01	S-25		ND (10)	ND (10)	ND (10)	ND (20)	110	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (2.0)	ND (2.0)	ND (2.0)	-	-
		13-Nov-02	S-25		ND (1)	ND (1)	ND (1)	ND (1)	2	-	-	-	-	-	-	-	ND (2)	-	-	-	-	-	-	-	-	-
		13-Nov-03	S-25		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	61.7	-	-	-	-	-	-	-	ND (2.0)	-	-	-	-	-	-	-	-	-
		21-Oct-04	S-25		ND (1.0)	ND (5.0)	ND (5.0)	ND (10)	37	-	ND (5.0)	ND (5.0)	-	-	ND (5.0)	ND (0.020)	ND (0.14)	ND (9.8)	ND (9.8)	ND (9.8)	-	-	-	-	-	ND (5.0)
		8-Nov-05	S-25_11_8_2005		ND (1)	ND (1)	ND (1)	ND (1)	43	-	-	ND (1)	-	-	ND (1)	ND (0.02)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-
		30-Nov-06	S-25		ND (0.5)	ND (0.7)	ND (0.8)	ND (0.8)	0.8 J	-	ND (1.0)	ND (1.0)	-	-	ND (1.0)	ND (0.0097)	1.0 J	ND (1.0)	4.0 J	3.0 J	-	ND	ND	ND	-	0.13 J
		13-Dec-07	S-25		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	5.0	-	ND (0.5)	ND (1.0)	-	-	ND (0.5)	ND (0.0097)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND	ND	ND	-	0.13 J
		4-Nov-08	S-25_110408		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	11	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (0.9)	-	ND (0.9)	ND (0.9)	-	-	-	-	-	ND (0.050)
		12-Nov-09	S-25		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	2	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0099)	ND (0.060)	-	ND (0.040)	ND (0.10)	-	-	-	-	-	ND (0.050)
		25-Nov-09	S-25_112509		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		15-Nov-10	S-25		3	ND (0.5)	0.7 J	3	12	-	ND (0.5)	ND (1)	1 J	ND (0.5)	ND (0.5)	ND (0.0097)	0.11 J	ND (0.096)	ND (0.038)	ND (0.096)	-	-	-	-	-	0.070 J
		18-Nov-11	S-25		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	3	-	ND (0.5)	ND (0.98)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.078)	ND (0.098)	ND (0.078)	ND (0.098)	-	-	-	-	-	ND (0.080)
		3-Apr-13	S-25_040313		1.7	0.32 J	0.49 J	2.4	1.2	-	ND (2.0)	ND (0.10)	0.54 J	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	0.13 J
		29-Aug-13	AOI3_S-25_082913		ND (1.0)	0.86 J	ND (1.0)	ND (1.0)	1.5	-	ND (2.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		30-May-14	S-25		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	0.49 J	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	6.2
		11-Jun-15	AOI3_S-25_061115		ND (1.0)	ND (1.0)	ND (1.0)	ND (3.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (1.0)	ND (1.0)	ND (1.0)	0.017 J	0.038 J	ND (0.10)	ND (0.10)	0.056 J	ND (0.10)	0.022 J	ND (0.10)	0.048 J	ND (0.10)	ND (5.0)
		15-Dec-15	AOI3_S-25_121515		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	0.48 J	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.050)	ND (0.10)	ND (0.10)	ND (3.0)
		12-May-16	S-25-20160512		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (0.5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
		22-May-17	S-25-20170522		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	0.1 J	ND (0.1)	0.1 J	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.21 J
		26-Jun-18	S_25_20180626		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	2.09	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		26-Jun-18	S-25 DUP_20180626	Field Duplicate	ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	2.09	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		9-Jul-19	S-25_20190709		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	ND (0.2)	ND (10)	ND (0.3)	ND (0.09)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0094)	0.1 J	ND (0.09)	ND (0.09)	0.2 J	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (1.1)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 3	S-66	1-Jan-85 DM	S-66		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-86 DM	S-66		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-88 DM	S-66		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND (10)	ND (10)	ND (10)	-	-
		1-Jan-93 DM	S-66		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-94 DM	S-66		ND (5)	ND (5)	ND (5)	ND (10)	-	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-96 DM	S-66		ND (0.3)	ND (0.3)	ND (0.4)	ND (0.6)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		19-Nov-97	S-66		ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		12-Nov-98	S-66		ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (2)	ND (3)	-	-
		2-Dec-99	S-66		ND (1)	ND (1)	ND (1)	ND (2)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (2)	ND (3)	-	-
		16-Nov-00	S-66		ND (1)	ND (1)	ND (1)	ND (2)	10	-	-	-	-	-	-	-	ND (4)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		14-Nov-01	S-66		ND (1)	ND (1)	ND (1)	ND (2)	1	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (2.0)	ND (2.0)	ND (2.0)	-	-
		13-Nov-02	S-66		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	ND (2)	-	-	-	-	-	-	-	-	-
		12-Nov-03	S-66		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	-	-	ND (2.0)	-	-	-	-	ND	ND	ND	-	-
		19-Oct-04	S-66		ND (1.0)	ND (5.0)	ND (5.0)	ND (10)	ND (5.0)	-	ND (5.0)	ND (5.0)	-	-	ND (5.0)	ND (0.020)	ND (0.14)	ND (9.8)	ND (9.8)	ND (9.8)	-	ND	ND	ND	-	ND (5.0)
		15-Nov-10	S-66		DR	DR	DR	DR	DR	-	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR
		18-Nov-11	S-66		DR	DR	DR	DR	DR	-	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR
		2-Apr-13	S-66		DR	DR	DR	DR	DR	-	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR
		29-May-14	S-66		ND (0.50)	0.88 J	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	-	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	-	-	-	-	-	-	-	-	-	-
		30-May-14	S-66		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (3.0)
	S-69	1-Jan-85 DM	S-69		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-86 DM	S-69		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-88 DM	S-69		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND (10)	ND (10)	ND (10)	-	-
		1-Jan-93 DM	S-69		ND	ND	ND	1	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-94 DM	S-69		21	ND (5)	ND (5)	ND (10)	-	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		28-Dec-95	S-69		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-96 DM	S-69		ND (0.3)	ND (0.3)	ND (0.4)	ND (0.6)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		19-Nov-97	S-69		ND (1)	16	7	27	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		12-Nov-98	S-69		ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (2)	ND (3)	-	-
		2-Dec-99	S-69		ND (1)	ND (1)	ND (1)	ND (2)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (2)	ND (3)	-	-
		16-Nov-00	S-69		ND (1)	ND (1)	ND (1)	ND (2)	6.8	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		14-Nov-01	S-69		ND (1)	ND (1)	ND (1)	ND (2)	3	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (2.0)	ND (2.0)	ND (2.0)	-	-
		13-Nov-02	S-69		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	ND (2)	-	-	-	-	-	-	-	-	-
		12-Nov-03	S-69		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	1.9	-	-	-	-	-	-	-	ND (2.0)	-	-	-	-	-	-	-	-	-
		19-Oct-04	S-69		ND (1.0)	ND (5.0)	ND (5.0)	ND (10)	ND (5.0)	-	ND (5.0)	ND (5.0)	-	-	ND (5.0)	ND (0.020)	ND (0.14)	ND (9.9)	ND (9.9)	ND (9.9)	-	-	-	-	-	ND (5.0)

See notes on last page.

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Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 3	S-69D	8-Nov-05	S-69D_11_8_2005		ND (1)	ND (1)	ND (1)	ND (1)	5	-	-	ND (1)	-	-	ND (1)	ND (0.02)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	-	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	-
		30-Nov-06	S-69D		ND (0.5)	ND (0.7)	ND (0.8)	ND (0.8)	4.0 J	-	ND (1.0)	1.0 J	-	-	ND (1.0)	ND (0.0097)	ND (1.0)	ND (1.0)	ND (1.0)	1.0 J	-	-	-	-	-	0.25 J
		7-Nov-08	S-69D_110708		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (1)	-	ND (1)	ND (1)	-	-	-	-	-	0.064 J
		1-Dec-09	S-69D_120109		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		22-Jul-10	S-69D_072210		ND (1)	ND (1)	ND (1)	ND (1)	2	-	ND (2)	ND (5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1.0)
		7-Apr-11	S-69D_04072011		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	5	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-
		7-Apr-11	S-69D_04072011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		29-Jun-11	S-69D_06292011		ND (1)	ND (1)	ND (1)	ND (1)	4	-	ND (2)	ND (5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-
		29-Jun-11	S-69D_06292011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		29-May-12	S-69D_52912		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	5	-	ND (0.5)	ND (0.09)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	-	-	-	-	-	ND (1.0)
		17-Aug-12	S-69D_081712		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	6	-	ND (0.5)	0.3 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (1.0)
		1-Nov-12	S-69D_110112		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	5.9	-	ND (5.0)	ND (0.10)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.015) *	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.10)	ND (0.050)	ND (0.10)	ND (5.0)
		28-Mar-13	S-69D_032813		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	8.1	-	ND (2.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		9-Jun-15	AOI3_S-69D_060915		5.1	8.1	0.73 J	4.2	8.8	-	ND (1.0)	0.26 J	1.2	0.28 J	ND (1.0)	0.080	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
		21-Dec-15	AOI3_S69D_122115		338	163	ND (1.0)	ND (1.0)	1.7	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.018)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.050)	ND (0.10)	ND (0.10)	ND (3.0)
		26-Feb-19	S-69D_20190226		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	2	-	ND (0.3)	-	-	-	ND (2)	ND (0.3)	-	-	-	-	-	-	-	-	-	-
		26-Jun-19	S-69D_20190626		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	3	ND (10)	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		26-Apr-21	S-69D_20210426		0.43 J	ND (1.0)	ND (1.0)	ND (6.0)	2.0	ND (50)	ND (5.0)	0.32 J	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.52)
	S-112	9-Nov-05	S-112_11_9_2005		6	ND (1)	ND (1)	ND (1)	25	-	-	ND (1)	-	-	ND (1)	ND (0.02)	ND (0.1)	5	4.2	0.2	-	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-
		1-Dec-06	S-112		1.0 J	ND (0.7)	ND (0.8)	ND (0.8)	46	-	28	ND (1.0)	-	-	ND (1.0)	ND (0.0099)	ND (1.0)	12	18	2.0 J	-	-	-	-	-	0.13 J
		11-Dec-07	S-112		0.8 J	ND (0.5)	ND (0.5)	ND (0.5)	-	-	21	1.0 J	-	-	ND (0.5)	ND (0.0097)	ND (1.0)	10	16	1.0 J	-	-	-	-	-	0.11 J
	S-280	7-Jul-10	S-280_070710		41,000	6,900	ND (50)	ND (50)	ND (50)	-	ND (100)	6	ND (100)	ND (100)	ND (50)	ND (0.028)	ND (5)	7	12	ND (5)	-	-	-	-	-	ND (1.0)
		8-Jun-15	AOI3_S-280_060815		6,570	ND (50.0)	ND (50.0)	ND (150)	ND (50.0)	-	ND (50.0)	0.15 J	ND (50.0)	ND (50.0)	ND (50.0)	ND (0.040)	0.048 J	ND (0.24)	0.37	0.21 J	0.038 J	0.058 J	ND (0.24)	ND (0.24)	0.35	ND (5.0)
		16-Dec-15	AOI3_S-280_121615		28,500	35.1 J	ND (100)	ND (100)	ND (100)	-	ND (100)	ND (0.10)	ND (200)	ND (200)	ND (100)	ND (0.019)	ND (0.10)	ND (0.10)	0.176	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.050)	ND (0.10)	ND (0.10)	ND (3.0)
		20-May-16	S-280-20160520		16,000	26 J	ND (25)	ND (25)	ND (25)	-	ND (25)	ND (0.1)	ND (25)	ND (25)	ND (25)	ND (0.0097)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.13)
		22-May-17	S-280-20170522		27,000	290	5	19	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.090)
		25-Jun-18	S-280_20180625		37,200	ND (50.0)	ND (50.0)	ND (150)	ND (50.0)	-	ND (50.0)	ND (0.258)	ND (50.0)	ND (50.0)	ND (50.0)	ND (0.0102)	ND (0.0515)	ND (0.0515)	ND (0.0515)	ND (0.0515)	ND (0.0515)	ND (0.0515)	ND (0.0515)	ND (0.0515)	ND (0.0515)	ND (2.00)
		25-Jun-18	S-280DUP_20180625	Field Duplicate	39,900	ND (50.0)	ND (50.0)	ND (150)	ND (50.0)	-	ND (50.0)	ND (0.250)	ND (50.0)	ND (50.0)	ND (50.0)	ND (0.0100)	ND (0.0500)	ND (0.0500)	0.106	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	0.0563	ND (2.00)
		27-Feb-19	S-280_20190227		41,000	110	ND (10)	ND (25)	ND (10)	-	ND (15)	-	-	-	ND (100)	ND (15)	-	-	-	-	-	-	-	-	-	-
		26-Jun-19	S-280_20190626		52,000	68 J	ND (20)	ND (50)	ND (20)	ND (1,000)	ND (30)	2	ND (30)	ND (30)	ND (200)	ND (0.0095)	ND (0.09)	0.1 J	0.3 J	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (1.1)
	S-280D	23-Jul-10	S-280D_072310		ND (1)	ND (1)	ND (1)	ND (1)	2	-	ND (2)	ND (5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		7-Apr-11	S-280D_04072011		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-
		7-Apr-11	S-280D_04072011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		28-Jun-11	S-280D_06282011		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-
		28-Jun-11	S-280D_06282011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		29-May-12	S-280D_52912		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.7 J	-	ND (0.5)	ND (0.09)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	-	-	-	-	-	ND (1.0)
		17-Aug-12	S-280D_081712		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.8 J	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.0)
		31-Oct-12	S-280D_103112		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (5.0)	ND (0.10)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.014) *	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.10)	ND (0.050)	ND (0.10)	2.9 J
		26-Mar-13	S-280D_32613		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	0.97 J	-	ND (2.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		8-Jun-15	AOI3_S-280D_060815		ND (1.0)	1.5	0.81 J	5.1	ND (1.0)	-	ND (1.0)	0.17	1.7	ND (1.0)	ND (1.0)	ND (0.040)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (5.0)
		15-Dec-15	AOI3_S-280D_121515		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	0.67 J	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.019)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.050)	ND (0.10)	ND (0.10)	ND (3.0)
		26-Feb-19	S-280D_20190226		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	0.4 J	-	ND (0.3)	-	-	-	ND (2)	ND (0.3)	-	-	-	-	-	-	-	-	-	-
		20-Jun-19	S-280D_20190620		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	ND (0.2)	ND (10)	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0094)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		27-Apr-21	S-280D_20210427		ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	0.38 J	ND (50)	ND (5.0)	ND (0.51)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.52)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 3	S-284D	23-Jul-10	S-284D_072310		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		7-Apr-11	S-284D_04072011		ND (0.5)	ND (0.5)	ND (0.5)	0.5 J	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0099)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-
		7-Apr-11	S-284D_04072011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		29-Jun-11	S-284D_06292011		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-
		29-Jun-11	S-284D_06292011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		25-May-12	S-284D_52512		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	0.7 J	3	1 J	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.09)	0.4 J	0.2 J	0.1 J	-	-	-	-	-	ND (1.0)
		17-Aug-12	S-284D_081712		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	0.7 J	2	1 J	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.09)	0.2 J	0.1 J	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (1.0)
		31-Oct-12	S-284D_103112		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	1.4 J	2.7	2.4 J	0.65 J	ND (1.0)	ND (0.014) *	ND (0.10)	0.23	0.12	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.10)	ND (0.050)	ND (0.10)	ND (5.0)
		28-Mar-13	S-284D_032813		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	1.3 J	1.92	2.9	0.96 J	ND (1.0)	ND (0.020)	ND (0.10)	0.184	0.154	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		9-Jun-15	AOI3_S-284D_060915		7.9	7.5	0.36 J	2.1 J	ND (1.0)	-	ND (1.0)	ND (1.0)	0.77 J	0.23 J	ND (1.0)	0.057	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
		23-Dec-15	AOI3_S-284D_122315		62.0	48.6	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.019)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.050)	ND (0.10)	ND (0.10)	ND (3.0)
		26-Feb-19	S-284D_20190226		0.3 J	ND (0.2)	ND (0.2)	ND (0.5)	ND (0.2)	-	ND (0.3)	-	-	-	ND (2)	ND (0.3)	-	-	-	-	-	-	-	-	-	-
		19-Jun-19	S-284D_20190619		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	0.6 J	ND (10)	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		23-Apr-21	S-284D_20210423		10	4.2	0.55 J	6.0	1.3	ND (50)	ND (5.0)	0.22 J	1.1 J	0.43 J	ND (1.0)	ND (0.029)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.52)
	S-384	29-Apr-21	S-384_20210429		ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	1.2 J	ND (0.54)	1.0 J	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.54)	0.87	1.0	0.13 J	0.15 J	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.52)
	S-411	16-Dec-15	AOI3_S-411_121615		1,020	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (5.0)	ND (0.10)	ND (10)	ND (10)	ND (5.0)	ND (0.019)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.050)	ND (0.10)	ND (0.10)	ND (3.0)
		8-Apr-16	S-411-20160408-WG		2.7	ND (1.0)	ND (1.0)	ND (3.0)	ND (1.0)	-	ND (1.0)	0.44	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.040)	ND (0.11)	0.040 J	0.097 J	ND (0.11)	0.017 J	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (5.0)
		27-Jun-18	S-411_20180627		3.14	ND (1.00)	ND (1.00)	ND (3.00)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		27-Feb-19	S-411_20190227		7	ND (0.2)	ND (0.2)	ND (0.5)	ND (0.2)	-	ND (0.3)	-	-	-	ND (2)	ND (0.3)	-	-	-	-	-	-	-	-	-	-
		26-Jun-19	S-411_20190626		0.9 J	ND (0.2)	ND (0.2)	ND (0.5)	ND (0.2)	ND (10)	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		27-Apr-21	S-411_20210427		0.99 J	1.5	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.51)	ND (5.0)	0.74 J	ND (1.0)	ND (0.029)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	0.16 J
AOI 4	RW-701	19-Oct-10	RW-701_101910		13,000	9,900	1,400	8,200	ND (50)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		13-Dec-12	RW-701-121312		10,700	9,260	1,140	6,090	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (3.0)
		26-Feb-14	RW 701		13,900	10,400	1,160	7,290	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		18-Mar-15	RW-701_20150318		2,800	1,300	830	5,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		15-Feb-16	AOI4_RW-701_021516		14,100	8,370	1,380	7,360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		17-Aug-16	RW-701-20160817-WG		13,300	8,430	1,160	6,100	4,980	-	ND (50.0)	323	714	209	ND (50.0)	0.491 *	ND (0.0500)	6.45	14.6	0.572	0.995	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		12-Oct-16	RW-701-20161012-WG		13,300	6,790	1,250	6,410	5,070	-	ND (500)	734	840	ND (500)	ND (500)	0.537 *	ND (2.50)	105	452	27.8	ND (2.50)	ND (2.50)	ND (2.50)	ND (2.50)	ND (2.50)	ND (2.00)
		17-May-17	RW-701-20170517		16,000	9,100	1,300	6,900	5,100	-	35 J	470	870	250	ND (10)	0.64	0.5 J	91	230	11	35	0.2 J	ND (0.1)	ND (0.1)	ND (0.1)	0.17 J
		29-Jun-18	RW-701_20180629		4,570 SL	2,120 SL	554 SL	3,580 SL	ND (200) SL	ND (1,000) HT SL	ND (200) SL	271 SL	615 SL	201 SL	ND (200) SL	ND (0.0100) SL	0.149 SL	48.7 SL	126 SL	6.99 SL	30.6 SL	0.0935 SL	ND (0.0515) SL	ND (0.0515) SL	ND (0.0515) SL	ND (2.00) SL
		29-Jun-18	RW-701_HS_20180629	Hydra Sleeve	4,250 SL	1,380 SL	489 SL	3,160 SL	ND (200) SL	ND (1,000) HT SL	ND (200) SL	12.7 SL	515 SL	ND (200) SL	ND (200) SL	ND (0.0100) SL	ND (0.100) SL	0.372 SL	0.560 SL	0.169 SL	ND (0.100) SL	ND (0.100) SL	ND (0.100) SL	ND (0.100) SL	ND (0.100) SL	ND (2.00) SL
		20-Jun-19	RW-701_20190620		1,500	740	230	1,600	180	99 J	14 J	10	380	140	ND (10)	ND (0.027)	0.2 J	18	39	2	6	0.2 J	0.1 J	0.2 J	0.1 J	ND (1.1)
		10-May-21	RW-701_20210510		26	2.4	0.93 J	56	0.44 J	ND (50)	ND (5.0)	ND (0.58)	6.3	34	ND (1.0)	ND (0.028)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	0.26 J
	RW-703	19-Oct-10	RW-703_101910		15,000	12,000	1,500	8,300	340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		14-Dec-12	RW-703_12142012		16,400	14,400	2,350	16,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (3.0)
		26-Feb-14	RW 703		19,200	8,820	616	5,810	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		18-Mar-15	RW-703_20150318		9,500	4,800	550	4,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		15-Feb-16	AOI4_RW-703_021516		20,900	11,000	774	6,750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		17-Aug-16	RW-703-20160817-WG		20,700	10,700	989	7,070	1,090	-	31.7	233	1,020	320	ND (25.0)	ND (0.0100) *	ND (0.100)	5.47	15.2	2.25	2.24	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (2.00)
		12-Oct-16	RW-703-20161012-WG		18,800	9,910	606	5,720	1,110	-	ND (50.0)	232	593	175	ND (50.0)	ND (0.0100) *	ND (0.0500)	5.76	9.64	0.296	0.755	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		20-Jun-19	RW-703_20190620		1,600	1,400	45	1,900	ND (1)	ND (50)	3 J	41	350	150	ND (10)	ND (0.014)	ND (0.1)	16	37	2	6	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		10-May-21	RW-703_20210510		3,800	82	140	2,000	ND (5.0)	63 J	3.9 J	34	410	250	ND (5.0)	ND (0.029)	ND (0.55)	4.2	5.6	0.81	2.0	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.52)
	RW-708	21-Oct-10	RW-708_102110		7,400	9,700	2,800	10,000	ND (20)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		13-Dec-12	RW-708-121312		7,360	4,250	1,290	6,760	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (3.0)
		4-Apr-14	RW-708_040314		656	3,630	640	3,820	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		18-Mar-15	RW-708_20150318		3,900	5,600	1,000	5,400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		16-Feb-16	AOI4_RW-708_021616		2,530	4,060	690	3,690	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		13-Oct-16	RW-708-20161013-WG		2,640	2,420	905	5,070	ND (250)	-	ND (250)	507	1,220	379	ND (250)	ND (0.0100) *	0.0999	12.6	36.9	2.33	4.12	0.0682	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		20-Jun-19	RW-708_20190620		510	90	260	1,700	ND (0.2)	12 J	12	91	560	230	ND (2)	ND (0.0095)	ND (0.1)	5	8	0.8	1	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		3-May-21	RW-708_20210503		99	9.4	50	470	ND (1.0)	37 J	2.2 J	ND (0.51)	160	92	ND (1.0)	ND (0.029)	ND (0.51)	0.97	0.48 J	0.19 J	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	0.24 J

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 4	RW-715	21-Oct-10	RW-715_102110		1,500	2,700	650	4,200	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		13-Dec-12	RW-715-121312		936	351	582	2,110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (3.0)
		1-Apr-14	RW-715_040114		7.8	2.1	9.4	15.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		18-Mar-15	RW-715_20150318		11	1	4	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		19-Feb-16	AOI4_RW-715_021916		77.2	58.0	26.6	137	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		16-Aug-16	RW-715-20160816-WG		1.75	ND (5.00)	ND (1.00)	4.41	ND (1.00)	-	2.22	0.918	1.37	1.08	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		12-Oct-16	RW-715-20161012-WG		115	20.7	8.82	46.4	6.01	-	9.86	5.13	6.35	2.95	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		26-Jun-18	RW-715_20180626		47.8	3.06	2.23	4.08	1.58	-	1.81	1.45	1.53	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		20-Jun-19	RW-715_20190620		0.8 J	0.3 J	ND (0.2)	0.6 J	1	ND (10)	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0094)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		4-May-21	RW-715_20210504		6.0	2.4	ND (1.0)	3.9 J	0.35 J	12 J	1.5 J	0.24 J	2.7 J	0.32 J	ND (1.0)	ND (0.029)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.52)
	S-38	1-Jan-85 DM	S-38		1,200	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-86 DM	S-38		1,300	160	ND	210	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-88 DM	S-38		930	260	240	280	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND (10)	ND (10)	ND (10)	-	-
		1-Jan-93 DM	S-38		310	120	60	94	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-94 DM	S-38		1 J	ND (5)	ND (5)	ND (10)	-	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		28-Dec-95	S-38		300	42	80	100	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-96 DM	S-38		9.3	5.5	3.9	4.4	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		19-Nov-97	S-38		1,300	720	220	500	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		12-Nov-98	S-38		700	410	220	430	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (2)	ND (3)	-	-
		2-Dec-99	S-38		89	3	3	5	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (2)	ND (3)	-	-
		16-Nov-00	S-38		8.5	5.1	2.5	2.5	ND (1)	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		14-Nov-01	S-38		1,100	180	260	150	ND (100)	-	-	-	-	-	-	-	1	-	-	-	-	ND (2.0)	ND (2.0)	ND (2.0)	-	-
		12-Nov-02	S-38		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	ND (2)	-	-	-	-	-	-	-	-	-
		13-Nov-03	S-38		66.6	5.2	23.7	14.2	ND (1.0)	-	-	-	-	-	-	-	ND (2.0)	-	-	-	-	-	-	-	-	-
		21-Oct-04	S-38		ND (1.0)	ND (5.0)	ND (5.0)	ND (10)	ND (5.0)	-	ND (5.0)	ND (5.0)	-	-	ND (5.0)	ND (0.020)	ND (0.14)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	ND (5.0)
		3-May-05	S38-050305		ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (5)	ND (10)	-	-	ND (5)	ND (0.029)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	-
		8-Nov-05	S-38_11_8_2005		16	ND (1)	ND (1)	ND (1)	ND (1)	-	-	ND (1)	-	-	ND (1)	ND (0.02)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-
		29-Nov-06	S-38		7.0	3.0 J	17	6.0	ND (0.5)	-	6.0	4.0 J	-	-	ND (1.0)	ND (0.0097)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	0.18 J
		6-Dec-07	S-38		26	7.0	19	29	-	-	6.0	4.0	-	-	ND (0.5)	ND (0.0097)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	ND (0.047)
		5-Nov-08	S-38_110508		140	21	72	41	ND (0.5)	-	27	14	10	9	ND (0.5)	ND (0.0097)	ND (1)	-	ND (1)	ND (1)	-	-	-	-	-	ND (0.050)
		13-Nov-09	S-38		3	ND (0.5)	2	1 J	ND (0.5)	-	2 J	ND (1)	1 J	0.6 J	ND (0.5)	ND (0.0097)	0.080 J	-	0.069 J	0.10 J	-	-	-	-	-	0.11 J
		12-Nov-10	S-38		12	3	16	32	ND (0.5)	-	15	4 J	71	32	ND (0.5)	ND (0.0097)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	0.14 J
		18-Nov-11	S-38		ND (5.0)	ND (5.0)	4	10	ND (5.0)	-	5	6.4	31	14	ND (0.5)	ND (0.0097)	0.14 J	ND (0.63)	0.31	ND (0.096)	-	-	-	-	-	0.13 J
		3-Apr-13	S-38_040313		1.9	2.2	10.6	23.9	ND (1.0)	-	7.5	1.66	41.3	16.7	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	1.4
		13-Jun-13	S-38_06_13_2013		0.29 J	ND (1)	0.37 J	0.43 J	ND (1)	-	ND (2)	ND (0.1)	1.2 J	0.49 J	ND (1)	ND (0.02)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (3)
		30-May-14	S-38		0.55	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	0.180	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	8.1
		18-May-15	S-38_20150518		160	64	79	88	ND (0.5)	-	16	20	33	11	ND (0.5)	ND (0.0096)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.095 J
		18-May-16	S-38-20160518		180	96	79	83	ND (0.5)	-	13	26	17	7	ND (0.5)	ND (0.0096)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.13)
		16-Aug-16	S-38-20160816-WG		198	59.9	49.4	30.6	ND (1.00)	-	10.5	19.2	4.08	5.78	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		10-Oct-16	S-38-20161010-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		17-May-17	S-38-20170517		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	1	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	1	0.3 J	0.1 J	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.099 J
		26-Jun-18	S-38_20180626		72.3	45.4	30.9	30.4	ND (1.00)	-	4.68	6.48	7.22	3.46	ND (1.00)	ND (0.0101)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		28-Jun-19	S-38_20190628		120	230	110	150	ND (1)	92 J	17 J	25	28	12 J	ND (10)	ND (0.0094)	ND (0.1)	0.1 J	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		3-May-21	S-38_20210503		5.5	2.5	1.6	2.4 J	ND (1.0)	ND (50)	0.66 J	0.25 J	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)
		3-May-21	DUP-5_20210503	Field Duplicate	7.5	5.0	3.8	5.7 J	ND (1.0)	ND (50)	1.3 J	0.50 J	1.3 J	0.50 J	ND (1.0)	ND (0.028)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	0.088 J

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 4	S-38D2	21-Oct-04	S-38 I		ND (1.0)	ND (5.0)	ND (5.0)	ND (10)	ND (5.0)	-	ND (5.0)	ND (5.0)	-	-	ND (5.0)	ND (0.020)	ND (0.14)	ND (10)	ND (10)	ND (10)	-	ND	ND	ND	-	ND (5.0)
		3-May-05	S38I-050305		ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (5)	ND (10)	-	-	ND (5)	ND (0.029)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	-
		7-Apr-11	S-38D2_04072011		ND (0.5)	0.8 J	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.9)	ND (0.5)	ND (0.5)	2	ND (0.0099)	ND (0.9)	ND (0.9)	ND (0.9)	ND (0.9)	-	-	-	-	-	-
		7-Apr-11	S-38D2_04072011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		29-Jun-11	S-38D2_06292011		110	14	12	20	ND (1)	-	2 J	ND (0.9)	ND (1)	ND (1)	1 J	ND (0.0095)	ND (0.9)	ND (0.9)	ND (0.9)	ND (0.9)	-	-	-	-	-	-
		29-Jun-11	S-38D2_06292011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		24-May-12	S-38D2_52412		43	4	2	4	ND (0.5)	-	0.7 J	0.3 J	ND (0.5)	ND (0.5)	1	ND (0.0098)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	-	-	-	-	-	2.6
		16-Aug-12	S-58D2_081612		60	7	6	12	ND (0.5)	-	1 J	0.5 J	ND (0.5)	ND (0.5)	2	ND (0.0096)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (1.0)
		25-Oct-12	S-38D2_102512		12.7	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (2.0)	ND (5.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	3.7
		5-Feb-13	B-38D2_020513		57.5	7.6	6.9	11.2	ND (1.0)	-	ND (2.0)	-	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	-	-	-	-	-	-	-	-	-	ND (3.0)
		25-Mar-13	S-38D2_32513		106	15.1	13.3	23.9	ND (1.0)	-	2.5	0.434	0.29 J	0.38 J	1.4	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	1.7 J
		18-Aug-16	S-38D2-20160818-WG		7.36	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	0.319 B	ND (1.00)	ND (1.00)	1.57	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		10-Oct-16	S-38D2-20161010-WG		2.58	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	1.02	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		20-Jun-19	S-38D2_20190620		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	ND (0.2)	ND (10)	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0094)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		30-Apr-21	S-38D2_20210430		ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.60)	ND (5.0)	ND (5.0)	1.3	ND (0.029)	ND (0.60)	ND (0.60)	0.17 J	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	0.18 J
	S-39	1-Jan-93 DM	S-39		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-94 DM	S-39		1 J	ND (5)	ND (5)	ND (10)	-	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		28-Dec-95	S-39		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-96 DM	S-39		ND (0.3)	ND (0.3)	ND (0.4)	ND (0.6)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		19-Nov-97	S-39		ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		12-Nov-98	S-39		ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (2)	ND (3)	-	-
		2-Dec-99	S-39		ND (1)	ND (1)	ND (1)	ND (2)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (2)	ND (3)	-	-
		16-Nov-00	S-39		ND (1)	ND (1)	ND (1)	ND (2)	1.7	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		14-Nov-01	S-39		ND (1)	ND (1)	ND (1)	ND (2)	1	-	-	-	-	-	-	-	ND (1)	-	-	-	-	-	-	-	-	-
		12-Nov-02	S-39		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	ND (2)	-	-	-	-	-	-	-	-	-
		20-Oct-04	S-39		ND (1.0)	ND (5.0)	ND (5.0)	ND (10)	ND (5.0)	-	ND (5.0)	ND (5.0)	-	-	ND (5.0)	ND (0.020)	ND (0.14)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	ND (5.0)
		3-May-05	S39-050305		ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (5)	ND (10)	-	-	ND (5)	ND (0.029)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	-
		8-Nov-05	S-39_11_8_2005		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	ND (1)	-	-	ND (1)	ND (0.02)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-
		29-Nov-06	S-39		ND (0.5)	ND (0.7)	ND (0.8)	ND (0.8)	ND (0.5)	-	ND (1.0)	ND (1.0)	-	-	ND (1.0)	ND (0.0097)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (2.0)	ND (2.0)	ND (2.0)	-	0.16 J
		6-Dec-07	S-39		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	-	ND (0.5)	ND (1.0)	-	-	ND (0.5)	ND (0.0097)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND	ND	ND	-	ND (0.047)
		7-Nov-08	S-39_110708		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (1)	-	ND (1)	ND (1)	-	-	-	-	-	ND (0.050)
		13-Nov-09	S-39		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0099)	ND (0.059)	-	ND (0.039)	ND (0.098)	-	-	-	-	-	ND (0.050)
		11-Nov-10	S-39		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	ND (0.052)
		18-Nov-11	S-39		2	ND (0.5)	0.7 J	2	ND (0.5)	-	ND (0.5)	ND (0.98)	0.8 J	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.078)	ND (0.098)	ND (0.078)	ND (0.098)	-	-	-	-	-	0.080 J
		2-Apr-13	S-39		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1)
		2-Apr-13	S-39_040213		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (2.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	-
		13-Jun-13	S-39_06_13_2013		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (0.1)	ND (2)	ND (2)	ND (1)	ND (0.02)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (3)
		19-May-14	S-39		ND (0.50)	ND (1.0)	ND (0.50)	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	1.8 J
		18-May-15	S-39_20150518		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.082)
		12-May-16	S-39-20160512		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (0.5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
		10-Aug-16	S-39-20160810-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		11-Oct-16	S-39-20161011-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
	S-39D	26-Apr-16	S-39D-20160426		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	70	-	ND (1)	ND (0.1)	ND (1)	ND (1)	ND (0.5)	ND (0.0094)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	7.9 J
		30-Aug-16	S-39D-HS-20160830-WG	Hydra Sleeve	ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	32.9	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		31-Aug-16	S-39D-20160831-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	63.8	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	0.196	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		11-Oct-16	S-39D-20161011-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	51.1	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		11-Oct-16	S-39D-HS-20161011-WG	Hydra Sleeve	ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	17.5	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		28-Jun-18	S-39D_20180628		-	-	-	-	55.1	ND (5.00) OE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		28-Jun-18	S-39D-HS_20180628	Hydra Sleeve	-	-	-	-	28.2	ND (5.00) OE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		20-Jun-19	S-39D_20190620		0.2 J	ND (0.2)	ND (0.2)	ND (0.5)	91	ND (10)	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0094)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		7-May-21	S-39D_20210507		0.69 J	ND (1.0)	ND (1.0)	ND (6.0)	24	ND (50)	ND (5.0)	ND (0.55)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.52)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 4	S-40	1-Jan-85 DM	S-40		2,800	ND	1,200	6,100	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-86 DM	S-40		600	ND	210	1,520	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-88 DM	S-40		2,000	ND	2,900	4,100	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND (10)	ND (10)	ND (10)	-	-
		1-Jan-93 DM	S-40		78	6	12	16	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-94 DM	S-40		280	55 J	140 J	75 J	-	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		28-Dec-95	S-40		150	23	29	51.2	-	-	-	-	-	-	-	-	ND	-	-	-	-	1	ND (1)	1	-	-
		1-Jan-96 DM	S-40		12	1.8	3.4	1.9	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		19-Nov-97	S-40		350	ND (100)	ND (100)	56 J	-	-	-	-	-	-	-	-	1	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		12-Nov-98	S-40		630	ND (100)	ND (100)	ND (100)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	2	ND (2)	ND (3)	-	-
		2-Dec-99	S-40		1,000	ND (100)	ND (100)	ND (200)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	2	ND (2)	ND (3)	-	-
		16-Nov-00	S-40		600	ND (100)	ND (100)	ND (200)	ND (100)	-	-	-	-	-	-	-	3	-	-	-	-	ND (13)	ND (10)	ND (14)	-	-
		14-Nov-01	S-40		1,200	76	68	ND (100)	1,200	-	-	-	-	-	-	-	4	-	-	-	-	ND (2.0)	ND (2.0)	ND (2.0)	-	-
		12-Nov-02	S-40		240	9	7	8	ND (5)	-	-	-	-	-	-	-	ND (15)	-	-	-	-	-	-	-	-	-
		13-Nov-03	S-40-1		987	36.9	19.5	20.9	ND (5.0)	-	-	-	-	-	-	-	ND (2.0)	-	-	-	-	-	-	-	-	-
		3-May-05	S40-050305		370	14	21	10	ND (5)	-	40	ND (10)	-	-	ND (5)	ND (0.03)	ND (10)	ND (10)	16	ND (10)	-	-	-	-	-	-
		8-Nov-05	S-40_11_8_2005		436	17	28	56	ND (10)	-	-	12	-	-	ND (10)	ND (0.02)	ND (0.1)	0.9	1.1	0.1	-	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-
		6-Dec-06	S-40		220	9.0	8.0	5.0 J	ND (0.5)	-	17.0	ND (1.0)	-	-	ND (1.0)	ND (0.0097)	ND (1.0)	3.0 J	5.0 J	ND (1.0)	-	-	-	-	-	0.18 J
		18-Dec-07	S-40		3.0	ND (0.5)	ND (0.5)	ND (0.5)	-	-	1.0 J	ND (1.0)	-	-	ND (0.5)	ND (0.0095)	ND (0.9)	1.0 J	2.0 J	ND (0.9)	-	-	-	-	-	0.12 J
		7-Nov-08	S-40_110708		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (1)	-	ND (1)	ND (1)	-	-	-	-	-	0.34 J
		13-Nov-09	S-40		5	0.5 J	0.7 J	ND (0.5)	ND (0.5)	-	4	ND (1)	ND (0.5)	0.5 J	ND (0.5)	ND (0.0099)	0.37	-	1.6	ND (0.10)	-	-	-	-	-	0.25 J
		11-Nov-10	S-40		72	3	2	1	ND (0.5)	-	12	ND (1)	ND (0.5)	0.7 J	ND (0.5)	ND (0.0095)	1 J	6	12	2 J	-	-	-	-	-	0.074 J
		28-Nov-11	S-40		ND (0.5)	2	ND (0.5)	ND (0.5)	ND (0.5)	-	0.6 J	ND (9.6)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0099)	6.0	6.7	9.2	ND (0.096)	-	-	-	-	-	ND (0.080)
		8-Apr-13	S-40_040813		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (0.1)	ND (2)	ND (2)	ND (1)	ND (0.02)	ND (0.1)	0.135	0.255	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (3)
		17-Jun-13	S-40_06_17_2013		0.58 J	ND (1)	ND (1)	ND (1)	ND (1)	-	1.3 J	ND (0.1)	ND (2)	ND (2)	ND (1)	ND (0.02)	0.31	0.586	1.27	0.418	0.307	0.236	ND (0.1)	ND (0.1)	ND (0.1)	ND (3)
		18-May-15	S-40_20150518		10	2	ND (0.5)	ND (0.5)	ND (0.5)	-	6	0.6	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	0.4 J	0.6	0.2 J	0.2 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.19 J
		19-May-16	S-40-20160519		18	4	1	1	ND (0.5)	-	16	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	0.2 J	1	2	0.4 J	0.5 J	0.2 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.13)
	S-120	20-Oct-04	S-120		ND (1.0)	ND (5.0)	ND (5.0)	ND (10)	ND (5.0)	-	ND (5.0)	ND (5.0)	-	-	ND (5.0)	ND (0.020)	ND (0.14)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	ND (5.0)
		3-May-05	S120-050305		ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (5)	ND (10)	-	-	ND (5)	ND (0.029)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	-
		29-Nov-06	S-120		ND (0.5)	ND (0.7)	ND (0.8)	ND (0.8)	ND (0.5)	-	ND (1.0)	ND (1.0)	-	-	ND (1.0)	ND (0.0097)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	0.16 J
		14-Dec-07	S-120		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	-	ND (0.5)	ND (1.0)	-	-	ND (0.5)	ND (0.0095)	ND (0.9)	ND (0.9)	ND (0.9)	ND (0.9)	-	-	-	-	-	0.10 J
		5-Nov-08	S-120_110508		0.5 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (1)	-	ND (1)	ND (1)	-	-	-	-	-	ND (0.050)
		13-Nov-09	S-120		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (0.057)	-	ND (0.038)	ND (0.095)	-	-	-	-	-	ND (0.050)
		11-Nov-10	S-120		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	ND (0.052)
		18-Nov-11	S-120		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.95)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.076)	ND (0.095)	ND (0.076)	ND (0.095)	-	-	-	-	-	ND (0.080)
		2-Apr-13	S-120		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1)
		2-Apr-13	S-120_040213		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (2.0)	1.39	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	-
		12-Jun-13	S-120_06_12_2013		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (0.1)	ND (2)	ND (2)	ND (1)	ND (0.02)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (3)
		21-May-14	S-120		7.8	1.1	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		18-May-15	S-120_20150518		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.082)
		18-May-16	S-120-20160518		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.13)
		12-Aug-16	S-120-20160812-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		11-Oct-16	S-120-20161011-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		11-Oct-16	S-120-20161011-WG-DUP	Field Duplicate	ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE µg/L	TOLUENE µg/L	ETHYLBENZENE µg/L	XYLENES, TOTAL (DIMETHYLBENZENE) µg/L	METHYL TERTIARY BUTYL ETHER µg/L	TERT-BUTYL ALCOHOL µg/L	ISOPROPYLBENZENE (CUMENE) µg/L	NAPHTHALENE µg/L	1,2,4-TRIMETHYLBENZENE µg/L	1,3,5-TRIMETHYLBENZENE µg/L	1,2-DICHLOROETHANE (EDC) µg/L	1,2-DIBROMOETHANE (EDB) µg/L	CHRYSENE µg/L	FLUORENE µg/L	PHENANTHRENE µg/L	PYRENE µg/L	ANTHRACENE µg/L	BENZO(A)ANTHRACENE µg/L	BENZO(A)PYRENE µg/L	BENZO(B)FLUORANTHENE µg/L	BENZO(G,H,I)PERYLENE µg/L	LEAD, Dissolved µg/L
AOI 4	S-122	20-Oct-04	S-122		ND (1.0)	ND (5.0)	ND (5.0)	ND (10)	ND (5.0)	-	ND (5.0)	ND (5.0)	-	-	ND (5.0)	ND (0.020)	ND (0.14)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	ND (5.0)
		3-May-05	S122-050305		ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (5)	ND (10)	-	-	ND (5)	ND (0.029)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	-
		29-Nov-06	S-122		ND (0.5)	ND (0.7)	1.0 J	2.0 J	ND (0.5)	-	4.0 J	2.0 J	-	-	ND (1.0)	ND (0.0098)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	0.13 J
		6-Dec-07	S-122		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	-	ND (0.5)	ND (1.0)	-	-	ND (0.5)	ND (0.0096)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	0.14 J
		5-Nov-08	S-122_110508		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (1)	-	ND (1)	ND (1)	-	-	-	-	-	ND (0.050)
		13-Nov-09	S-122		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.059)	-	ND (0.039)	ND (0.098)	-	-	-	-	-	ND (0.050)
		12-Nov-10	S-122		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	1 J	ND (1)	2	ND (0.5)	ND (0.5)	ND (0.0097)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	ND (0.052)
		18-Nov-11	S-122		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.95)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.076)	0.10 J	ND (0.076)	ND (0.095)	-	-	-	-	-	ND (0.080)
		2-Apr-13	S-122		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1)
		2-Apr-13	S-122_040213		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (2.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	-
		13-Jun-13	S-122_06_13_2013		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (0.1)	ND (2)	ND (2)	ND (1)	ND (0.02)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (3)
		19-May-14	S-122		ND (0.50)	ND (1.0)	ND (0.50)	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		18-May-15	S-122_20150518		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	0.2 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.082)
		12-May-16	S-122-20160512		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (0.5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
		9-Aug-16	S-122-20160809-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500) OE	ND (2.00)
		13-Oct-16	S-122-20161013-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		13-Oct-16	S-122-20161013-WG-DUP	Field Duplicate	ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
	S-218D	26-Apr-16	S-218D-20160426		ND (0.5)	6	ND (0.5)	ND (0.5)	65	-	ND (1)	ND (0.1)	ND (1)	ND (1)	ND (0.5)	ND (0.0094)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	12.7 J
		30-Aug-16	S-218D-HS-20160830-WG	Hydra Sleeve	ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	92.5	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		31-Aug-16	S-218D-20160831-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	53.7	-	ND (1.00)	0.529	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	0.192	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		11-Oct-16	S-218D-20161011-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	55.3	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		11-Oct-16	S-218D-HS-20161011-WG	Hydra Sleeve	ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	51.1	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		28-Jun-18	S-218D_20180628		-	-	-	-	48.6	ND (5.00) OE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		28-Jun-18	S-218D-HS_20180628	Hydra Sleeve	-	-	-	-	50.6	ND (5.00) OE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		26-Jun-19	S-218D_20190626		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	41	ND (10)	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		30-Apr-21	S-218D_20210430		ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	36	ND (50)	ND (5.0)	ND (0.54)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.52)
	S-222	1-Aug-05	S-222-080105		ND (5)	ND (5)	ND (5)	10	ND (5)	-	ND (5)	ND (6)	-	-	ND (5)	ND (0.029)	ND (6)	ND (6)	ND (6)	ND (6)	-	-	-	-	-	-
		8-Nov-05	S-222_11_8_2005		12	5	6	13	ND (1)	-	-	12	-	-	ND (1)	ND (0.02)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-
		30-Nov-06	S-222		0.8 J	ND (0.7)	ND (0.8)	ND (0.8)	ND (0.5)	-	ND (1.0)	ND (1.0)	-	-	ND (1.0)	ND (0.0098)	ND (1.0)	ND (1.0)	3.0 J	3.0 J	-	-	-	-	-	0.16 J
		6-Dec-07	S-222		3.0	1.0	ND (0.5)	0.5 J	-	-	ND (0.5)	ND (1.0)	-	-	ND (0.5)	ND (0.0098)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	0.11 J
		5-Nov-08	S-222_110508		3	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (1)	-	ND (1)	ND (1)	-	-	-	-	-	0.050 J
		12-Nov-09	S-222		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0099)	ND (0.058)	-	ND (0.080)	ND (0.096)	-	-	-	-	-	ND (0.050)
		15-Nov-10	S-222		15	2	4	16	ND (0.5)	-	ND (0.5)	ND (0.96)	4	1 J	ND (0.5)	ND (0.0097)	ND (0.058)	ND (0.096)	0.044 J	ND (0.096)	-	-	-	-	-	ND (0.052)
		18-Nov-11	S-222		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.95)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.076)	ND (0.095)	ND (0.076)	ND (0.095)	-	-	-	-	-	0.87 J
		3-Apr-13	S-222_040313		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (2.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	1.3
		18-Jun-13	S-222_06_18_2013		0.91 J	0.43 J	0.23 J	0.86 J	ND (1)	-	ND (2)	0.291	0.79 J	ND (2)	ND (1)	ND (0.02)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (3)
		21-May-14	S-222		29.7	6.8	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		18-May-15	S-222_20150518		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.082)
		18-May-16	S-222-20160518		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.13)
		17-Aug-16	S-222-20160817-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		13-Oct-16	S-222-20161013-WG		ND (1.00)	ND (5.00)	1.16	4.73	ND (1.00)	-	ND (1.00)	0.704	2.42	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	0.482	0.468	0.0905	0.150	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		17-May-17	S-222-20170517		3	2	2	8	ND (0.5)	-	ND (0.5)	0.3 J	2 J	0.6 J	ND (0.5)	ND (0.0096)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.090)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 4	S-223	1-Aug-05	S-223-080105		6,100	9,600	1,300	6,900	ND (50)	-	ND (50)	430	-	-	ND (50)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-
		29-Nov-06	S-223		4,300	2,800	930	4,400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		14-Dec-07	S-223		4,700	2,000	900	4,500	-	-	33	380	-	-	ND (5.0)	ND (0.0094)	ND (1.0)	2.0 J	2.0 J	ND (1.0)	-	-	-	-	-	0.060 J
		5-Nov-08	S-223_110508		8,100	1,700	1,100	5,100	ND (5)	-	38	380	1,000	330	ND (5)	ND (0.010)	ND (1)	-	1 J	ND (1)	-	-	-	-	-	0.10 J
		12-Nov-09	S-223		3,900	460	850	3,700	ND (3)	-	36	330	1,000	360	ND (3)	ND (0.0099)	0.47	-	2.3	ND (0.095)	-	-	-	-	-	0.098 J
		15-Nov-10	S-223		3,300	410	890	3,800	ND (3)	-	32	170	920	360	ND (3)	ND (0.0097)	0.14 J	3.4	0.86	1.1	-	-	-	-	-	0.095 J
		18-Nov-11	S-223		1,100	110	440	1,900	ND (5)	-	25	170	780	350	ND (5)	ND (0.0096)	ND (0.077)	3.7	1.4	ND (0.096)	-	-	-	-	-	ND (0.080)
		14-Dec-12	S-223_12142012		6,270	408	1,250	5,490	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (3.0)
		3-Apr-13	S-223_040313		5,530	337	866	4,040	ND (40)	-	29.3 J	130	1,070	351	ND (40)	ND (0.020)	ND (0.10)	0.625	0.601	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	0.26 J
		18-Jun-13	S-223_06_18_2013		7,400	2,850	709	2,930	ND (50)	-	23.3 J	159	766	269	ND (50)	ND (0.02)	ND (0.1)	0.772	0.663	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (3)
		15-Jan-14	S-223_010714		6,280	2,030	960	3,860	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		4-Apr-14	S223_040414		2,320	1,020	259	1,370	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		30-May-14	S-223		1,470	108	396	1,300	ND (10)	-	23.0	38.6	812	314	ND (10)	ND (0.020)	ND (0.10)	0.940	0.770	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	6.8
		12-Aug-14	S223_081214		4,240	294	713	2,820	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		6-Oct-14	S-223_100614		3,000	219	642	2,870	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		6-Jan-15	S-223-20150106		11,400	5,410	871	3,980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		16-Apr-15	S-223-20150416		1,100	190	330	1,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		21-Jul-15	S-223_20150721		3,600	570	400	1,900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		19-Oct-15	S-223-20151019		5,900	1,700	440	2,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		8-Feb-16	S-223-20160208		1,300	200	250	940	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		26-Apr-16	S-223-20160426		2,300	480	380	1,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		19-May-16	S-223-20160519		2,200	330	440	1,500	ND (10)	-	16 J	87	490	170	ND (10)	ND (0.0097)	ND (0.1)	0.8	0.2 J	ND (0.1)	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.13)
		17-Aug-16	S-223-20160817-WG		1,520	183	496	1,500	ND (5.00)	-	17.7	34.2	533	187	ND (5.00)	ND (0.0100) *	ND (0.0500)	0.764	0.170	ND (0.0500)	0.0978	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		13-Oct-16	S-223-20161013-WG		401	69.1	193	550	ND (10.0)	-	ND (10.0)	1.41	280	105	ND (10.0)	ND (0.0100) *	ND (0.0500)	0.171	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		17-May-17	S-223-20170517		37	9	26	87	ND (0.5)	-	1 J	0.1 J	50	21	ND (0.5)	ND (0.0096)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.40 J
		25-Jan-18	S-223_20180125		1,700	190	400	1,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2-Apr-18	S-223-20180402		1,800	150	530	1,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		27-Jun-18	S-223_20180627		1,830	136	739	1,740	ND (1.00)	-	25.5	56.6	822	241	ND (1.00)	ND (0.0100)	ND (0.0500)	0.701	ND (0.0500)	ND (0.0500)	0.0826	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		27-Jun-18	S-223_DUP_20180627	Field Duplicate	1,850	145	764	1,790	ND (1.00)	-	27.1	78.1	807	245	ND (1.00)	ND (0.0100)	ND (0.0500)	0.707	0.0986	ND (0.0500)	0.0799	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		28-Nov-18	S-223_20181128		1,500	220	370	980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		18-Jan-19	S-223-20190118-WG		1,680	221	601	1,400	ND (50.0)	ND (250)	ND (50.0)	-	664	232	ND (50.0)	ND (0.0100)	-	-	-	-	-	-	-	-	-	-
		28-Jun-19	S-223_20190628		2,200	310	410	990	ND (2)	170 J	15 J	99	600	210	ND (20)	0.014 J	ND (0.1)	1	0.6	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		4-May-21	S-223_20210504		830	51	540	670	ND (5.0)	ND (250)	27	110	470	230	ND (5.0)	ND (0.029)	ND (0.52)	1.3	0.79	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	0.074 J

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 4	S-224	1-Aug-05	S-224-080105		2,000	2,800	690	3,500	ND (10)	-	44	100	-	-	ND (10)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-
		29-Nov-06	S-224		1,200	1,400	500	2,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		14-Dec-12	S-224_12142012		527	169	501	1,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (3.0)
		15-Jan-14	S-224_010714		405	127	289	697	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		4-Apr-14	S224_040414		110	45.0	182	363	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		12-Aug-14	S224_081214		114	35.0	81.9	197	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		6-Oct-14	S-224_100614		431	104	329	711	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		6-Jan-15	S-224-20150106		255	150	213	457	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		16-Apr-15	S-224-20150416		480	84	300	370	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		21-Jul-15	S-224_20150721		200	47	160	290	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		19-Oct-15	S-224-20151019		88	30	130	190	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		8-Feb-16	S-224-20160208		630	110	380	520	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		26-Apr-16	S-224-20160426		240	64	300	480	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		16-Aug-16	S-224-20160816-WG		317	57.3	192	290	ND (1.00)	-	17.9	41.2	136	28.9	ND (1.00)	ND (0.0100) *	ND (0.0500)	0.986	0.942	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		11-Oct-16	S-224-20161011-WG		169	41.0	7.14	241	ND (1.00)	-	13.6	17.2	101	26.0	ND (1.00)	ND (0.0100) *	ND (0.0500)	0.502	0.497	0.0599	0.0746	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		25-Jan-18	S-224_20180125		160	43	170	260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2-Apr-18	S-224-20180402		370	110	410	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		28-Nov-18	S-224_20181128		240	49	170	220	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		18-Jan-19	S-224-20190118-WG		107	51.5	104	317	ND (1.00)	209	8.25	-	131	37.3	ND (1.00)	ND (0.0100)	-	-	-	-	-	-	-	-	-	-
	S-239	29-Nov-06	S-239		12	260	310	1,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		14-Dec-12	S-239_12142012		2.1	13.0	21.2	111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (3.0)
		17-Jun-13	S-239_06_17_2013		ND (1)	0.53 J	3.3	9.8	ND (1)	-	ND (2)	ND (0.1)	7	2.3	ND (1)	ND (0.02)	0.241	ND (0.1)	0.195	0.323	ND (0.1)	0.18	0.193	0.242	0.18	ND (3)
		15-Jan-14	S-239_010714		ND (1.0)	ND (1.0)	ND (1.0)	0.74 J	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		4-Apr-14	S239_040414		0.49 J	ND (1.0)	0.79	3.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		29-May-14	S-239		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	0.95 J	0.35 J	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	3.7
		12-Aug-14	S239_081214		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		6-Oct-14	S-239_100614		ND (0.50)	ND (1.0)	ND (1.0)	0.72 J	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		6-Jan-15	S-239-20150106		ND (0.50)	0.26 J	0.51 J	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		16-Apr-15	S-239-20150416		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		21-Jul-15	S-239_20150721		5	3	4	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		19-Oct-15	S-239-20151019		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		8-Feb-16	S-239-20160208		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		26-Apr-16	S-239-20160426		ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		17-Aug-16	S-239-20160817-WG		2.71	ND (5.00)	2.06	9.29	ND (1.00)	-	ND (1.00)	0.739	2.26	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	0.119	0.0656	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		13-Oct-16	S-239-20161013-WG		1.15	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		25-Jan-18	S-239_20180125		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2-Apr-18	S-239-20180402		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		28-Nov-18	S-239_20181128		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		18-Jan-19	S-239-20190118-WG		25.1	21.9	67.3	196	ND (1.00)	ND (5.00)	3.72	-	86.7	28.8	ND (1.00)	ND (0.0100)	-	-	-	-	-	-	-	-	-	-
	S-368	19-May-21	S-368_SL_20210519		70 SL	3.4 SL	2.6 SL	17 SL	ND (1.0) SL	ND (50) SL	7.7 SL	ND (0.51) SL	9.6 SL	14 SL	ND (1.0) SL	ND (0.028) SL	0.57 SL	6.9 SL	15 SL	5.7 SL	3.0 SL	0.52 SL	ND (0.51) SL	ND (0.51) SL	ND (0.51) SL	0.076 J SL
	S-369	16-Aug-16	S-369-20160816-WG		2,370	ND (125)	ND (25.0)	ND (75.0)	ND (25.0)	-	71.7	11.9	ND (25.0)	ND (25.0)	ND (25.0)	ND (0.0100) *	0.0860	2.39	3.12	0.364	0.576	0.0811	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		10-Oct-16	S-369-20161010-WG		1,870	ND (100)	ND (20.0)	ND (60.0)	ND (20.0)	-	62.4	10.4	ND (20.0)	ND (20.0)	ND (20.0)	ND (0.0100) *	0.153	3.74	4.65	0.678	0.518	0.152	0.0695	0.0654	ND (0.0500)	ND (2.00)
		17-May-17	S-369-20170517		1,900	62	17	42	47	-	71	3	ND (5)	5 J	ND (5)	ND (0.0097)	0.1 J	2	2	0.4 J	0.6	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	0.67 J
		27-Jun-18	S-369_20180627		1,460	54.5	13.3	33.2	62.3	-	72.8	3.13	ND (1.00)	3.73	ND (1.00)	ND (0.0100)	ND (0.0500)	2.08	1.26	0.0772	0.236	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		19-Jun-19	S-369_20190619		740	40	12	24 J	11	1,100	68	ND (0.1)	ND (2)	3 J	ND (10)	ND (0.0095)	ND (0.1)	2	1	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		10-May-21	S-369_20210510		360	37	9.7	25	1.9	180	91	1.1	12	2.4 J	ND (1.0)	ND (0.029)	ND (0.53)	1.7	1.1	ND (0.53)	0.11 J	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	0.79
		10-May-21	DUP-8_20210510	Field Duplicate	370	41	10	26	2.0	180	100	ND (0.50)	13	2.5 J	3.3	ND (0.028)	ND (0.50)	2.1	1.3	ND (0.50)	0.12 J	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	0.76
	S-374	8-Nov-18	S-374-20181108-WG		177	1,820	1,360	4,170	ND (1.0)	-	93.4	-	1,040	179	ND (1.0)	0.053	-	-	-	-	-	-	-	-	-	-
		16-Jan-19	S-374-20190116-WG		312	903	1,530	4,060	ND (20.0)	ND (100)	102	-	1,110	237	ND (20.0)	ND (0.0100)	-	-	-	-	-	-	-	-	-	-
		19-Jun-19	S-374_20190619		200	240	1,000	2,100	ND (1)	ND (50)	100	120	1,000	240	ND (10)	0.021 J	ND (0.1)	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		4-May-21	S-374_20210504		230	310	890	1,900	ND (5.0)	ND (250)	92	220	650	140	ND (5.0)	ND (0.029)	ND (0.51)	0.18 J	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	0.34 J

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE µg/L	TOLUENE µg/L	ETHYLBENZENE µg/L	XYLENES, TOTAL (DIMETHYLBENZENE) µg/L	METHYL TERTIARY BUTYL ETHER µg/L	TERT-BUTYL ALCOHOL µg/L	ISOPROPYLBENZENE (CUMENE) µg/L	NAPHTHALENE µg/L	1,2,4-TRIMETHYLBENZENE µg/L	1,3,5-TRIMETHYLBENZENE µg/L	1,2-DICHLOROETHANE (EDC) µg/L	1,2-DIBROMOETHANE (EDB) µg/L	CHRYSENE µg/L	FLUORENE µg/L	PHENANTHRENE µg/L	PYRENE µg/L	ANTHRACENE µg/L	BENZO(A)ANTHRACENE µg/L	BENZO(A)PYRENE µg/L	BENZO(B)FLUORANTHENE µg/L	BENZO(G,H,I)PERYLENE µg/L	LEAD, Dissolved µg/L
AOI 4	S-375	8-Nov-18	S-375-20181108-WG		1,900	3,340	641	4,820	0.58 J	-	31.7	-	743	231	ND (1.0)	0.075	-	-	-	-	-	-	-	-	-	-
		16-Jan-19	S-375-20190116-WG		1,090	2,920	1,190	6,270	ND (1.00)	ND (5.00)	43.7	-	823	239	ND (1.00)	ND (0.0100)	-	-	-	-	-	-	-	-	-	-
		19-Jun-19	S-375_20190619		440	1,000	990	4,400	ND (0.2)	60	46	230	760	250	ND (2)	ND (0.019)	ND (0.1)	0.3 J	0.2 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		4-May-21	S-375_20210504		490	390	890	4,200	ND (5.0)	93 J	39	190	630	220	ND (5.0)	ND (0.029)	ND (0.50)	0.18 J	0.15 J	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	0.12 J
	S-376	8-Nov-18	S-376-20181108-WG		101	1,660	302	3,930	3.4	-	14.2	-	759	284	ND (1.0)	0.079	-	-	-	-	-	-	-	-	-	-
		16-Jan-19	S-376-20190116-WG		198	2,310	1,160	6,220	ND (10.0)	ND (50.0)	26.9	-	1,210	373	ND (10.0)	ND (0.0100)	-	-	-	-	-	-	-	-	-	-
		9-Jul-19	S-376_SL_20190709		150 SL	2,000 SL	970 SL	6,100 SL	ND (1) SL	69 J SL	25 J SL	250 SL	1,300 SL	420 SL	ND (10) SL	ND (0.0094) SL	ND (0.1) SL	0.2 J SL	0.3 J SL	0.3 J SL	ND (0.1) SL	ND (0.1) SL	ND (0.1) SL	ND (0.1) SL	ND (0.1) SL	ND (1.1) SL
		12-May-21	S-376_SL_20210512		630 SL	1,000 SL	490 SL	2,800 SL	6.4 SL	ND (250) SL	13 J SL	160 SL	530 SL	160 SL	ND (5.0) SL	ND (0.029) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.52) SL
	S-377	12-Nov-18	S-377-20181112-WG		966	267	290	873	ND (1.00)	-	41.8	-	405	194	ND (1.00)	ND (1.00)	-	-	-	-	-	-	-	-	-	-
		17-Jan-19	S-377-20190117-WG		109	61.0	221	494	ND (5.00)	ND (25.0)	37.8	-	284	129	ND (5.00)	ND (0.0100)	-	-	-	-	-	-	-	-	-	-
		19-Jun-19	S-377_20190619		860	240	110	410	12	130	28	33	89	77	ND (10)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
	S-378	12-Nov-18	S-378-20181112-WG		1,890	504	1,040	1,520	10.6	-	57.0	-	898	337	ND (10.0)	ND (10.0)	-	-	-	-	-	-	-	-	-	-
		17-Jan-19	S-378-20190117-WG		1,390	325	1,090	1,270	ND (5.00)	130	55.0	-	722	289	ND (5.00)	ND (0.0100)	-	-	-	-	-	-	-	-	-	-
		19-Jun-19	S-378_20190619		3,000	450	1,300	1,300	ND (1)	130	48	320	890	320	ND (10)	ND (0.0095)	ND (0.1)	0.1 J	0.2 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		6-May-21	S-378_20210506		1,500	270	910	730	ND (5.0)	ND (2,500)	43	220	570	220	ND (5.0)	ND (0.029)	ND (0.52)	0.13 J	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)
	S-380	12-Jun-13	S-380_06_12_2013		2.1	0.27 J	0.26 J	0.45 J	ND (1)	-	ND (2)	ND (0.1)	ND (2)	ND (2)	ND (1)	ND (0.02)	ND (0.1)	0.3	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (3)
		12-Aug-16	S-380-20160812-WG		ND (1.00)	14.7	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	0.0698	ND (0.0500)	0.0745 B	0.126	ND (0.0500)	0.0689 B	0.0617	0.0939	0.0561	ND (2.00)
		10-Oct-16	S-380-20161010-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		10-Oct-16	S-380-20161010-WG-DUP	Field Duplicate	ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	0.0609	0.0809	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		17-May-17	S-380-20170517		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	0.3 J	ND (0.1)	0.3 J	0.4 J	ND (0.1)	0.2 J	0.2 J	0.3 J	0.2 J	0.16 J
		26-Jun-18	S-380_20180626		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	ND (0.0500)	ND (0.0500)	0.0625	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
	S-440	12-May-21	S-440_20210512		0.94 J	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.50)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.028)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.52)
	S-441	5-May-21	S-441_20210505		360	120	23	150	6.0	ND (250)	19 J	4.8	22 J	17 J	2.0 J	ND (0.028)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.52)
	S-442	5-May-21	S-442_20210505		1,100	21	18	20 J	13	ND (250)	15 J	1.6	34	ND (25)	ND (5.0)	ND (0.029)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)
	S-443	5-May-21	S-443_20210505		130	7.3	31	18 J	11	ND (250)	7.3 J	6.7	190	4.0 J	ND (5.0)	ND (0.029)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.52)
	S-444	6-May-21	S-444_20210506		5.6	150	540	360	ND (5.0)	ND (250)	50	85	24 J	25	ND (5.0)	ND (0.029)	ND (0.52)	0.16 J	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)
	S-445	5-May-21	S-445_20210505		410	100	49	90	ND (5.0)	ND (250)	22 J	17	14 J	8.1 J	ND (5.0)	ND (0.029)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)
	S-446	5-May-21	S-446_20210505		1.2 J	81	170	190	ND (5.0)	ND (250)	49	53	ND (25)	3.3 J	ND (5.0)	ND (0.029)	ND (0.51)	0.22 J	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.52)
	S-447	3-May-21	S-447_20210503		220	450	310	710	ND (5.0)	ND (250)	15 J	31	120	40	ND (5.0)	ND (0.029)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.52)
	S-448	6-May-21	S-448_20210506		3.5	ND (1.0)	ND (1.0)	ND (6.0)	2.9	ND (50)	ND (5.0)	ND (0.52)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.028)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)
	S-449	6-May-21	S-449_20210506		3,700	200	30	130	550	240 J	37	2.5	9.4 J	11 J	ND (5.0)	ND (0.029)	ND (0.52)	ND (0.52)	ND (0.52)	0.15 J	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 5	A-4	22-Oct-04	A-4		1.2	ND (5.0)	ND (5.0)	ND (10)	ND (5.0)	-	ND (5.0)	ND (5.0)	-	-	ND (5.0)	ND (0.020)	5.5 J	10	17	13	-	-	-	-	-	ND (5.0)
		17-Jul-14	A-4_071714		ND (0.50)	0.25 J	ND (1.0)	ND (1.0)	ND (1.0)	-	0.77 J	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	45.5	28.9	62.5	215	ND (1.0)	33.0	77.2	84.8	29.4	30.6
		15-Oct-14	A-4_101514		0.27 J	0.28 J	ND (1.0)	0.98 J	ND (1.0)	-	4.6	ND (0.50)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	18.9	19.0	38.2	45.8	15.3	19.6	13.0	19.0	7.55	21.8
		11-Jul-19	A-4_20190711		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	ND (0.2)	-	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0094)	ND (0.1)	ND (0.1)	ND (0.1)	0.2 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		30-Apr-21	A-4_20210430		ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.61)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.61)	ND (0.61)	ND (0.61)	ND (0.61)	ND (0.61)	ND (0.61)	ND (0.61)	ND (0.61)	ND (0.61)	0.30 J
	A-17	1-Jan-95 DM	A-17		WI	WI	WI	WI	WI	-	WI	WI	-	-	WI	WI	WI	WI	WI	WI	-	-	-	-	-	WI
		1-Jan-96 DM	A-17		ND (1)	ND (1)	ND (0.4)	ND (0.6)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-97 DM	A-17		ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-98 DM	A-17		ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-99 DM	A-17		ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-00 DM	A-17		ND (1)	ND (1)	ND (1)	ND (1)	4	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (2)	ND (3)	-	-
		1-Jan-01 DM	A-17		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	2	-	-	-	-	2	2	ND (3)	-	-
		1-Jan-02 DM	A-17		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	ND (2)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		13-Nov-03	A-17		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	-	-	ND (2.0)	-	-	-	-	ND (2.0)	ND (2.0)	ND (2.0)	-	-
		27-Oct-04	A-17		ND (1.0)	ND (5.0)	ND (5.0)	ND (10)	ND (5.0)	-	ND (5.0)	ND (5.0)	-	-	ND (5.0)	ND (0.020)	ND (0.14)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	ND (5.0)
		9-Nov-05	A-17_11_9_2005		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	ND (1)	-	-	ND (1)	ND (0.02)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-	ND (0.1)	ND (0.1)	0.2	ND (0.1)	-
		6-Dec-06	A-17		ND (0.5)	ND (0.7)	ND (0.8)	ND (0.8)	ND (0.5)	-	-	-	-	-	-	ND (0.0099)	-	-	-	-	-	-	-	-	-	0.14 J
		6-Dec-06	A-17_1262006		-	-	-	-	-	-	ND (1)	ND (1) *	-	-	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-
		6-Dec-07	A-17		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	-	ND (0.5)	ND (1.0)	-	-	ND (0.5)	ND (0.0097)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	0.19 J
		3-Nov-08	A-17_110308		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.7 J	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (1)	-	ND (1)	ND (1)	-	-	-	-	-	ND (0.050)
		17-Nov-10	A-17		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1.0)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	0.49	0.73	0.5	1.2	-	-	-	-	-	3.1
		16-Nov-11	A-17		WELL DESTROYED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	A-19D	11-Apr-11	A-19D_04112011		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	43	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-
		11-Apr-11	A-19D_04112011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		1-Jul-11	A-19D_07012011		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	40	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-
		1-Jul-11	A-19D_07012011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		31-May-12	A-19D_53112		ND (1)	ND (1)	ND (1)	ND (1)	64	-	ND (2)	ND (0.5)	ND (2)	ND (2)	ND (1)	ND (0.030)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	-	-	-	-	ND (1.0)
		20-Aug-12	A-19D_082012		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	53	-	ND (0.5)	ND (0.09)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (1.0)
		26-Oct-12	A-19D_102612		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	49.8	-	ND (2.0)	ND (5.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (3.0)
		29-Mar-13	A-19D_032913		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	56.7	-	ND (2.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	7.2
		28-Jun-19	A-19D_20190628		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	20	330	ND (0.3)	ND (0.09)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (1.1)
		29-Apr-21	A-19D_20210429		0.53 J	ND (1.0)	ND (1.0)	ND (6.0)	44	590	0.31 J	ND (0.50)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.030)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.52)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 5	A-21D	5-Dec-06	A-21D_1252006		ND (1)	ND (1)	ND (1)	ND (3)	ND (1)	-	ND (1)	ND (1) *	-	-	ND (1)	-	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	ND (0.8)
		7-May-07	A-21D_050707		ND (5)	ND (5)	ND (5)	ND (5)	0.57 J	-	ND (5)	ND (1)	-	-	ND (5)	ND (0.05)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	ND (0.8)
		11-Apr-11	A-21D_04112011		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	2	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-
		11-Apr-11	A-21D_04112011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		1-Jul-11	A-21D_07012011		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	2	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-
		1-Jul-11	A-21D_07012011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		30-May-12	A-21D_53012		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	2	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.1)	ND (0.1)	0.1 J	ND (0.1)	-	-	-	-	-	ND (1.0)
		21-Aug-12	A-21D_082112		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	2	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.1)	ND (0.1)	0.2 J	0.1 J	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.0)
		1-Nov-12	A-21D_11112		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	2.1	-	ND (5.0)	ND (0.10)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.014) *	ND (0.10)	ND (0.10)	0.13	0.041 J	0.042 J	ND (0.050)	ND (0.10)	ND (0.050)	ND (0.10)	ND (5.0)
		29-Mar-13	A-21D_32913		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	2.3	-	ND (2.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	0.173	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	7.6
		10-Jul-19	A-21D_20190710		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	3	22 J	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.1)	ND (0.1)	0.3 J	0.1 J	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		29-Apr-21	A-21D_20210429		0.67 J	ND (1.0)	ND (1.0)	ND (6.0)	3.4	23 J	ND (5.0)	ND (0.50)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.50)	0.15 J	0.50	0.33 J	ND (0.50)	ND (0.50)	0.13 J	ND (0.50)	ND (0.50)	ND (0.52)
	A-133	3-May-07	A-133_050307		1.2 J	ND (5)	ND (5)	ND (5)	ND (5)	-	12	ND (10) D	-	-	ND (5)	ND (0.05)	130 D	170 D	200 D	110 D	-	-	-	-	-	ND (0.8)
		17-Nov-10	A-133		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	3	ND (20)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	71	48	49	ND (170)	-	-	-	-	-	ND (0.052)
		16-Nov-11	A-133		ND (0.5)	0.5 J	ND (0.5)	ND (0.5)	ND (0.5)	-	2	ND (400)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	2,200	760	1,000	ND (4,000)	-	-	-	-	-	4.2
		8-Apr-13	A-133_040813		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (0.1)	ND (2)	ND (2)	ND (1)	ND (0.02)	0.574	ND (0.1)	ND (0.1)	0.959	ND (0.1)	0.173	0.269	ND (0.1)	ND (0.1)	ND (3)
		2-Jun-14	A-133		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	0.39 J	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	23.6	8.11	9.18	24.1	2.58	7.36	11.1	4.40	6.58	3.4
		24-Jul-14	A-133_072414		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	0.60 J	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	0.644	0.351	ND (0.10)	1.09	ND (0.10)	0.210	0.192	0.111	ND (0.10)	ND (3.0)
		21-Oct-14	A-133_102114		0.38 J	0.86 J	ND (1.0)	ND (1.0)	ND (1.0)	-	0.49 J	0.125	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	1.19	0.321	0.195	2.09	0.621	1.35	1.18	1.43	0.877	ND (3.0)
		21-May-15	A-133_20150521		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	0.1 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	3	2	0.6	3	0.5	0.8	1	0.5 J	0.7	0.10 J
		19-May-16	A-133-20160519		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	0.9	ND (0.1)	ND (0.1)	1	ND (0.1)	0.2 J	0.4 J	0.2 J	0.2 J	ND (0.13)
		19-May-16	A-133-20160519-DUP	Field Duplicate	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	1	ND (0.1)	ND (0.1)	1	ND (0.1)	0.2 J	0.3 J	0.2 J	0.2 J	ND (0.13)
		22-May-17	A-133-20170522		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	1	ND (0.1)	ND (0.1)	1	ND (0.1)	0.3 J	0.5 J	0.2 J	0.6	ND (0.090)
		27-Jun-18	A-133_20180627		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (2.50)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	6.55	1.43	ND (0.500)	9.83	ND (0.500)	2.49	2.38	1.50	2.14	ND (2.00)
	A-134	5-Dec-06	A-134_1252006		24	9.9	0.85 J	18	ND (1)	-	63	0.69 J *	-	-	ND (1)	-	ND (1)	6.8	3	8.1	-	-	-	-	-	ND (0.8)
		3-May-07	A-134_050307		50	13	1.5 J	28	ND (5)	-	83	ND (1)	-	-	ND (5)	ND (0.05)	ND (1)	9	3.7	ND (1)	-	-	-	-	-	ND (0.8)
		24-Jul-14	A-134_072414		7.0	6.8	0.62 J	15.9	ND (1.0)	-	71.6	ND (0.10)	1.8 J	1.1 J	ND (1.0)	ND (0.020)	0.152	16.7	14.8	1.42	2.91	0.196	0.127	0.147	ND (0.10)	ND (3.0)
		13-Oct-14	A-134_101314		64.6	73.5	3.7	26.1	ND (1.0)	-	49.6	ND (0.10)	2.4	2.0	ND (1.0)	ND (0.020)	0.731	19.6	22.5	4.05	4.68	1.27	0.660	0.747	0.225	5.3
		27-Jun-18	A-134_20180627		10.7	6.26	ND (1.00)	11.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		27-Jun-19	A-134_20190627		26	16	2	27	ND (0.2)	-	110	ND (0.09)	5	3 J	ND (2)	ND (0.0094)	ND (0.09)	2	ND (0.09)	1	0.4 J	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (1.1)
		29-Apr-21	A-134_20210429		38	15	0.94 J	23	ND (1.0)	ND (50)	60	ND (0.51)	2.1 J	1.8 J	ND (1.0)	ND (0.029)	0.13 J	3.4	2.0	1.2	0.91	0.14 J	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.52)
	A-136	1-Jan-95 DM	A-136		ND	ND	ND	0.8 J	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-96 DM	A-136		ND (0.3)	ND (0.3)	ND (0.4)	ND (0.6)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-97 DM	A-136		ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	2	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-98 DM	A-136		2	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-99 DM	A-136		ND (20)	ND (20)	ND (20)	ND (20)	-	-	-	-	-	-	-	-	9	-	-	-	-	7	5	6	-	-
		3-Nov-08	A-136_110308		ND (0.5)	ND (0.5)	ND (0.5)	0.6 J	ND (0.5)	-	7	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	6	-	7	15	-	-	-	-	-	0.41 J
		1-Aug-14	A-136_080114		ND (0.50) SL	ND (1.0) SL	ND (1.0) SL	1.1 SL	ND (1.0) SL	-	19.5 SL	ND (0.11) SL	0.48 J SL	ND (2.0) SL	ND (1.0) SL	ND (0.020) SL	1.53 SL	2.79 SL	1.24 SL	7.00 SL	1.28 SL	1.39 SL	1.07 SL	1.52 SL	0.900 SL	1.4 J SL
		17-Oct-14	A-136_101714		ND (0.50)	ND (1.0)	ND (1.0)	0.76 J	ND (1.0)	-	8.4	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	2.01	3.22	2.23	4.22	1.41	1.65	0.651	1.23	0.459	3.4
		21-Jan-16	AOI5_A-136_012116		ND (0.50) SL	ND (1.0) SL	ND (1.0) SL	1.0 SL	ND (1.0) SL	-	12.6 SL	ND (0.10) SL	ND (2.0) SL	ND (2.0) SL	ND (1.0) SL	ND (0.019) SL	0.441 SL	2.09 SL	0.592 SL	1.52 SL	0.817 SL	0.452 SL	0.227 SL	0.400 SL	0.168 SL	ND (3.0) SL

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 5	A-137	1-Jan-95 DM	A-137		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-96 DM	A-137		ND (0.3)	ND (0.3)	ND (0.4)	ND (0.6)	-	-	-	-	-	-	-	-	2	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-97 DM	A-137		ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	2	-	-	-	-	1	ND (1)	2	-	-
		1-Jan-98 DM	A-137		ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-99 DM	A-137		ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	2	-	-	-	-	2	2	2	-	-
		1-Jan-00 DM	A-137		ND (1)	ND (1)	ND (1)	ND (1)	250	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (2)	ND (3)	-	-
		1-Jan-01 DM	A-137		ND (1)	ND (1)	ND (1)	ND (1)	5	-	-	-	-	-	-	-	2	-	-	-	-	2	ND (2)	ND (3)	-	-
		1-Jan-02 DM	A-137		ND (1)	ND (1)	ND (1)	ND (1)	6	-	-	-	-	-	-	-	2	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		13-Nov-03	A-137		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	-	-	ND (2.0)	-	-	-	-	ND (2.0)	ND (2.0)	ND (2.0)	-	-
		22-Oct-04	A-137		ND (1.0)	ND (5.0)	ND (5.0)	ND (10)	ND (5.0)	-	ND (5.0)	ND (5.0)	-	-	ND (5.0)	ND (0.020)	0.45 J	ND (9.9)	ND (9.9)	ND (9.9)	-	-	-	-	-	ND (5.0)
		9-Nov-05	A-137_11_9_2005		ND (1)	ND (1)	ND (1)	ND (1)	4	-	-	ND (1)	-	-	ND (1)	ND (0.02)	ND (0.1)	ND (0.1)	0.2	0.2	-	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-
		4-Dec-06	A-137		ND (0.5)	ND (0.7)	ND (0.8)	ND (0.8)	1.0 J	-	ND (1.0)	ND (1.0)	-	-	ND (1.0)	ND (0.0096)	1.0 J	ND (1.0)	2.0 J	3.0 J	-	-	-	-	-	0.25 J
		7-May-07	A-137_050707		ND (5)	ND (5)	ND (5)	ND (5)	0.6 J	-	ND (5)	ND (1)	-	-	ND (5)	ND (0.05)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	ND (0.8)
		6-Dec-07	A-137		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	-	ND (0.5)	ND (1.0)	-	-	ND (0.5)	ND (0.0097)	ND (0.9)	ND (0.9)	ND (0.9)	ND (0.9)	-	-	-	-	-	0.25 J
		3-Nov-08	A-137_110308		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	2	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0099)	ND (1)	-	ND (1)	ND (1)	-	-	-	-	-	0.17 J
		17-Nov-10	A-137		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	3	-	ND (0.5)	ND (1.0)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	0.085 J	0.16 J	0.41	0.25 J	-	-	-	-	-	0.50 J
		16-Nov-11	A-137		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	2	-	ND (0.5)	ND (0.97)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.078)	0.17 J	0.46	0.22 J	-	-	-	-	-	3.8
		8-Apr-13	A-137_040813		ND (1)	ND (1)	ND (1)	ND (1)	0.84 J	-	ND (2)	ND (0.11)	ND (2)	ND (2)	ND (1)	ND (0.02)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (3)
		2-Jun-14	A-137		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	0.43 J	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	0.245	0.138	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	1.9 J
		17-Jul-14	A-137_071714		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	0.80 J	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	0.310	0.153	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		15-Oct-14	A-137_101514		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	0.89 J	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	0.215	0.137	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		21-May-15	A-137_20150521		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.7 J	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	ND (0.1)	0.1 J	0.3 J	0.3 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.30 J
		19-May-16	A-137-20160519		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.1)	ND (0.1)	0.3 J	0.2 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.13)
		22-May-17	A-137-20170522		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.8 J	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	ND (0.1)	0.1 J	0.4 J	0.2 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.090)
		27-Jun-18	A-137_20180627		ND (1.00)	1.97	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	0.663	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	0.231	0.629	0.226	0.123	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
	A-138	24-Apr-09	A-138		-	-	-	-	-	-	420	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		17-Nov-10	A-138		6	ND (0.5)	10	27	1 J	-	7,900	1.1 J	3	3	ND (0.5)	ND (0.0097)	0.16 J	1.5	1.5	ND (0.70)	-	-	-	-	-	0.17 J
		21-Nov-11	A-138		4 J	ND (0.5)	3 J	12	ND (0.5)	-	1,700	ND (9.6)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	2.9	ND (0.96)	2.6	2.2 J	-	-	-	-	-	0.21 J
		8-Apr-13	A-138_040813		0.76 J	ND (1)	ND (1)	0.33 J	1.1	-	104	ND (0.1)	ND (2)	ND (2)	ND (1)	ND (0.02)	0.152	ND (0.1)	0.235	0.174	ND (0.1)	0.151	ND (0.1)	0.166	ND (0.1)	ND (3)
	A-139	7-May-07	A-139_050707		ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (5)	ND (1)	-	-	ND (5)	ND (0.05)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	ND (0.8)
		24-Jan-12	A-139		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1.0)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.080)	ND (0.10)	ND (0.080)	ND (0.10)	-	-	-	-	-	1.3
		2-Jun-14	A-139		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	2.6 J
		21-Oct-14	A-139_102114		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	25.7
		21-May-15	A-139_20150521		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	94.6
		6-Jul-18	A-139_20180706		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	64.9
		6-Jul-18	A-139-HS_20180706	Hydra Sleeve	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57.7
		25-Sep-18	A-139_20180925		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.1)
		31-Oct-18	A-139_20181031		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82.4
		27-Jun-19	A-139_20190627		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	ND (0.2)	-	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	28.5
		28-Apr-21	A-139_20210428		ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.51)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	53
	A-140	7-May-07	A-140_050707		ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (5)	ND (1)	-	-	ND (5)	ND (0.05)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	ND (0.8)
		17-Nov-10	A-140		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.6 J	-	ND (0.5)	ND (0.97)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.058)	ND (0.097)	ND (0.039)	ND (0.097)	-	-	-	-	-	0.093 J
		16-Nov-11	A-140		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.98)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.078)	ND (0.098)	ND (0.078)	ND (0.098)	-	-	-	-	-	ND (0.080)
		8-Apr-13	A-140_040813		ND (1)	ND (1)	ND (1)	0.73 J	0.24 J	-	ND (2)	ND (0.11)	0.39 J	ND (2)	ND (1)	ND (0.02)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (3)
		2-Jun-14	A-140		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		21-Oct-14	A-140_102114		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (0.11)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (3.0)
		21-May-15	A-140_20150521		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.082)
		27-Jun-19	A-140_20190627		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	ND (0.2)	-	ND (0.3)	ND (0.09)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (1.1)
		29-Apr-21	A-140_20210429		0.30 J	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.51)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.52)
	A-182	22-Jul-14	A-182-072214		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	0.40 J	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	0.107	ND (0.10)	0.114	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		10-Oct-14	A-182_101014		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	0.52 J	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.022)	0.699	1.94	1.62	2.31	0.421	0.979	0.463	0.600	0.316	ND (3.0)
		28-Jun-19	A-182_20190628		0.7 J	0.4 J	ND (0.2)	2 J	0.5 J	-	1 J	ND (0.1)	1 J	0.7 J	ND (2)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		30-Apr-21	A-182_20210430		0.20 J	0.22 J	ND (1.0)	ND (6.0)	0.87 J	50	ND (5.0)	ND (0.58)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	0.087 J

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 5	RWBH-2	12-Jul-19	RWBH-2-SL_20190712		2 J SL	ND (1) SL	ND (1) SL	ND (3) SL	ND (1) SL	-	5 J SL	ND (0.1) SL	ND (2) SL	2 J SL	ND (10) SL	ND (0.0095) SL	0.4 J SL	7 SL	6 SL	1 SL	1 SL	0.3 J SL	ND (0.1) SL	ND (0.1) SL	ND (0.1) SL	ND (1.1) SL
		10-May-21	RWBH-2_SL_20210510		0.34 J SL	0.41 J SL	ND (1.0) SL	ND (6.0) SL	ND (1.0) SL	ND (50) SL	2.3 J SL	ND (0.50) SL	ND (5.0) SL	0.92 J SL	ND (1.0) SL	ND (0.028) SL	ND (0.50) SL	0.22 J SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	0.22 J SL
	WP-14	8-May-07	WP-14_050807		ND (5)	ND (5)	ND (5)	ND (5)	0.69 J	-	ND (5)	ND (1)	-	-	ND (5)	ND (0.05)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	2.3
		17-Nov-10	WP-14		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (100)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	40	16 J	53	100	-	-	-	-	-	0.45 J
		28-Nov-11	WP-14		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (9.8)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.010)	ND (4.5)	1.7 J	2.3	7.4	-	-	-	-	-	0.34 J
		8-Apr-13	WP-14_040813		ND (1)	ND (1)	ND (1)	ND (1)	0.26 J	-	ND (2)	0.228	ND (2)	ND (2)	ND (1)	ND (0.02)	0.576	0.228	0.54	1.17	0.249	0.586	0.463	0.432	0.27	ND (3)
		2-Jun-14	WP-14		ND (5.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)	ND (0.10)	ND (20)	ND (20)	ND (10)	ND (0.020)	ND (0.10)	4.94	1.65	1.34	0.631	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	2.0 J
		25-Jul-14	WP-14_072514		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	1.03	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	2.78	1.16	1.84	6.16	1.12	3.47	2.18	2.96	1.20	6.2
		9-Oct-14	WP-14_100914		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	0.32 J	-	ND (1.0)	0.154	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	0.269	0.297	0.345	1.15	0.264	0.398	0.167	0.210	ND (0.10)	ND (3.0)
		21-May-15	WP-14_20150521		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	0.2 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	0.7	0.1 J	0.5 J	0.8	0.2 J	0.6	0.7	0.7	0.5	0.97 J
		20-May-16	WP-14-20160520		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	0.4 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	0.7	0.5	0.6	1	0.3 J	0.6	0.7	0.7	0.6	0.31 J
		22-May-17	WP-14-20170522		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	0.5	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	1	0.4 J	1	2	0.5 J	1	2	2	1	0.40 J
		27-Jun-18	WP-14_20180627		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	0.724	0.767	0.245	0.109	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
	WP-A	9-Nov-05	WP-A_11_9_2005		ND (1)	ND (1)	ND (1)	ND (1)	21	-	-	ND (1)	-	-	ND (1)	ND (0.02)	9	38.2	13.2	51.5	-	14.7	13.4	17.9	18.1	-
		4-Dec-06	WP-A		ND (0.5)	ND (0.7)	ND (0.8)	ND (0.8)	1.0 J	-	ND (1.0)	ND (1.0)	-	-	ND (1.0)	ND (0.0097)	1.0 J	4.0 J	ND (1.0)	7.0	-	-	-	-	-	0.20 J
		7-May-07	WP-A_050707		ND (5)	ND (5)	ND (5)	ND (5)	0.62 J	-	ND (5)	ND (1)	-	-	ND (5)	ND (0.05)	3.6	ND (1)	ND (1)	11	-	-	-	-	-	1.5 J
		31-Jul-14	WP-A-073114		ND (0.50) SL	ND (1.0) SL	ND (1.0) SL	ND (1.0) SL	ND (1.0) SL	-	ND (1.0) SL	ND (0.50) SL	ND (2.0) SL	ND (2.0) SL	ND (1.0) SL	ND (0.020) SL	23.4 SL	2.34 SL	1.83 SL	65.2 SL	6.75 SL	9.79 SL	18.5 SL	18.2 SL	23.8 SL	3.9 SL
		21-Jan-16	AOI5_WPA_012116		ND (0.50) SL	ND (1.0) SL	ND (1.0) SL	ND (1.0) SL	ND (1.0) SL	-	ND (1.0) SL	ND (0.11) SL	ND (2.0) SL	ND (2.0) SL	ND (1.0) SL	ND (0.019) SL	2.99 SL	0.133 SL	0.153 SL	8.73 SL	0.720 SL	1.62 SL	2.26 SL	2.21 SL	2.65 SL	ND (3.0) SL
		11-Jul-19	WP-A_SL_20190711		ND (0.2) SL	ND (0.2) SL	ND (0.2) SL	ND (0.5) SL	ND (0.2) SL	-	0.6 J SL	ND (0.1) SL	ND (0.3) SL	ND (0.3) SL	ND (2) SL	ND (0.0094) SL	1 SL	ND (0.1) SL	ND (0.1) SL	4 SL	ND (0.1) SL	0.6 SL	0.9 SL	0.9 SL	0.4 J SL	ND (1.1) SL
		4-May-21	WP-A_20210504		ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.57)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.030)	0.37 J	ND (0.57)	ND (0.57)	0.73	ND (0.57)	0.13 J	0.38 J	0.36 J	0.20 J	1.6
	WP-C	3-May-07	WP-C_050307		ND (5)	ND (5)	ND (5)	0.95 J	ND (5)	-	2 J	ND (1)	-	-	ND (5)	ND (0.05)	ND (1)	1.1	ND (1)	ND (1)	-	-	-	-	-	ND (0.8)
		6-Dec-07	WP-C		ND (0.5)	ND (0.5)	ND (0.5)	2.0	-	-	4.0	ND (1.0)	-	-	ND (0.5)	ND (0.0097)	3.0 J	4.0 J	ND (1.0)	4.0 J	-	-	-	-	-	2
	B-39	8-Jan-13	B39_010813		44.0	3.1	ND (1.0)	3.8	ND (1.0)	-	30.1	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	6.78	36.6	74.9	24.1	14.2	8.27	6.03	6.09	2.89	5.7
		11-May-16	GW-11109613-B39-05-11-16-MM-043		3	0.7 J	ND (1)	4	ND (1)	-	11	8.0	ND (2)	ND (2)	ND (1)	ND (0.029)	2.6	14	25	6.4	5.8	3.0	2.5	3.1	1.5	16.7
		24-Aug-16	GW-11109613-B-39-082416-AC-022		4	2	ND (1)	5	ND (1)	-	26	4.4	1 J	ND (2)	ND (1)	0.057	0.43	5.5	6.0	1.1	1.6	0.48	0.34	0.47	0.16	2.1
		24-Aug-16	GW-11109613-B-39-082416-KC-023		3	2	ND (1)	4	ND (1)	-	17	ND (0.064)	0.6 J	ND (2)	ND (1)	ND (0.028)	0.090	3.0	0.86	0.35	0.41	0.086	0.071	0.083	0.057	4.7
		8-Jul-19	B-39-SL_20190708		5 SL	3 SL	0.6 J SL	5 J SL	ND (0.2) SL	-	31 SL	2 SL	0.4 J SL	ND (0.3) SL	ND (2) SL	ND (0.0094) SL	2 SL	9 SL	13 SL	4 SL	4 SL	2 SL	1 SL	2 SL	0.7 SL	272 SL
		5-May-21	B-39_SL_20210505		1.3 SL	2.2 SL	ND (1.0) SL	2.7 J SL	ND (1.0) SL	ND (50) SL	9.3 SL	ND (0.50) SL	ND (5.0) SL	3.5 J SL	ND (1.0) SL	ND (0.029) SL	0.33 J SL	2.1 SL	ND (0.50) SL	0.89 SL	0.91 SL	0.31 J SL	0.28 J SL	0.28 J SL	0.12 J SL	0.40 J SL
	B-43	23-May-16	B-43-20160523		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	4	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	3	0.9	ND (0.1)	7	0.7	2	2	2	1	ND (0.13)
		22-Aug-16	GW-11109613-B-43-082216-KC-005		ND (1)	ND (1)	ND (1)	0.6 J	ND (1)	-	6	ND (0.063)	ND (2)	ND (2)	ND (1)	ND (0.028)	1.0	0.34	0.24	2.9	0.22	0.89	0.66 J	0.75 J	0.32 J	2.8
		22-May-17	B-43-20170522		ND (0.5)	ND (0.5)	ND (0.5)	2	ND (0.5)	-	7	1	0.8 J	ND (0.5)	ND (0.5)	ND (0.020)	0.3 J	0.3 J	1	2	0.4 J	0.4 J	0.3 J	0.3 J	0.1 J	ND (0.090)
		27-Jun-18	B-43_20180627		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	2.35	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	0.326	ND (0.0500)	ND (0.0500)	1.52	ND (0.0500)	0.327	0.253	0.311	0.160	ND (2.00)
AOI 6		27-Jun-19	B-43_20190627		8	0.5 J	ND (0.2)	ND (0.5)	ND (0.2)	-	3 J	ND (0.09)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.09)	ND (0.09)	ND (0.09)	0.6	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (1.1)
		4-May-21	B-43_20210504		0.31 J	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	6.4	ND (0.55)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.55)	ND (0.55)	ND (0.55)	0.51 J	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.52)
	B-45	25-May-05	B45-052505		ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	5	ND (1)	-	-	ND (5)	ND (0.029)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-
		10-Nov-05	B-45_11_10_2005		3	ND (1)	1	8	ND (1)	-	-	2	-	-	ND (1)	ND (0.02)	0.2	ND (0.2)	ND (0.2)	0.4	-	0.2	0.2	0.3	ND (0.2)	-
		8-Jun-06	B45-060806		ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (5)	ND (5)	-	-	ND (5)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-
		18-Dec-07	B-45		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	-	ND (0.5)	ND (1.0)	-	-	ND (0.5)	ND (0.0097)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND	ND	ND	-	ND (0.047)
		4-Nov-08	B-45_110408		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.010)	ND (1)	-	ND (1)	ND (1)	-	-	-	-	-	ND (0.050)
		7-Jan-13	B-45_010713		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (2.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	0.115	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		5-May-16	GW-11109613-B45-05-05-16-RM-014		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (0.061)	ND (2)	ND (2)	ND (1)	ND (0.029)	0.050 J	0.042 J	0.065	0.085	0.042 J	0.021 J	0.030 J	0.043 J	0.033 J	0.14 J
	B-95	8-Jun-11	B-95 GP U 677-MW		ND (0.5)	ND (0.5)	ND (0.5)	0.5 J	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0099)	0.18 J	-	0.18 J	1.2	-	-	-	-	-	ND (0.052)
		23-May-16	B-95-20160523		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	0.4 J	ND (0.1)	ND (0.1)	0.7	ND (0.1)	0.2 J	0.3 J	0.2 J	0.2 J	ND (0.13)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 6	B-131	1-Jan-95 DM	B-131		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-96 DM	B-131		ND (0.3)	ND (0.3)	ND (0.4)	ND (0.6)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	-	-	-	-	-
		1-Jan-97 DM	B-131		12	1	2	11	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-98 DM	B-131		ND (1)	ND (1)	ND (1)	1	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-99 DM	B-131		19	ND (1)	ND (1)	1	-	-	-	-	-	-	-	-	1	-	-	-	-	1	ND (1)	ND (1)	-	-
		1-Jan-00 DM	B-131		ND (1)	ND (1)	ND (1)	ND (1)	1.1	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (2)	ND (3)	-	-
		1-Jan-01 DM	B-131		ND (1)	ND (1)	ND (1)	ND (1)	2	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (2)	ND (3)	-	-
		1-Jan-02 DM	B-131		5	1	ND (1)	2	ND (1)	-	-	-	-	-	-	-	ND (2)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		13-Nov-03	B-131		4.2	ND (1.0)	ND (1.0)	0.93 J	ND (1.0)	-	-	-	-	-	-	-	ND (2.0)	-	-	-	-	0.60 J	ND (2.0)	ND (2.0)	-	-
		21-Oct-04	B-131		ND (1.0)	ND (5.0)	ND (5.0)	ND (10)	ND (5.0)	-	10	ND (5.0)	-	-	ND (5.0)	ND (0.020)	0.35 J	ND (9.8)	ND (9.8)	ND (9.8)	-	-	-	-	-	ND (5.0)
		24-May-05	B131-052405		20	ND (5)	ND (5)	ND (5)	ND (5)	-	13	ND (10)	-	-	ND (5)	ND (0.029)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	-
		9-Nov-05	B-131_11_9_2005		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	ND (1)	-	-	ND (1)	ND (0.02)	0.4	0.5	0.4	3.3	-	0.3	ND (0.1)	0.1	ND (0.1)	-
		6-Jun-06	B131-060606		ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	17	ND (5)	-	-	ND (5)	ND (0.029)	ND (5)	ND (5)	ND (5)	6	-	-	-	-	-	-
		4-Dec-06	B-131		4.0 J	ND (0.7)	ND (0.8)	ND (0.8)	ND (0.5)	-	11	ND (1.0)	-	-	ND (1.0)	ND (0.0098)	2.0 J	2.0 J	1.0 J	8.0	-	-	-	-	-	0.14 J
		18-Dec-07	B-131		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	-	9.0	ND (1.0)	-	-	ND (0.5)	ND (0.0096)	ND (1.0)	2.0 J	ND (1.0)	4.0 J	-	-	-	-	-	0.091 J
		4-Nov-08	B-131_110408		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	6	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (1)	-	ND (1)	5	-	-	-	-	-	ND (0.050)
		9-Nov-10	B-131		ND (0.5)	ND (0.5)	ND (0.5)	0.5 J	ND (0.5)	-	10	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (1)	3 J	ND (1)	5	-	-	-	-	-	ND (0.052)
		16-Nov-11	B-131		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	5	ND (0.96)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	5.4	4.0	0.65	19	-	-	-	-	-	ND (0.080)
		8-Jan-13	B131_010813		19.7	ND (1.0)	ND (1.0)	1.1	ND (1.0)	-	10.6	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	0.331	1.41	0.496	3.00	0.916	0.356	ND (0.10)	ND (0.10)	ND (0.10)	3.5
		8-Apr-13	B-131_040813		1.1	0.61 J	0.32 J	0.62 J	ND (1)	-	13	ND (0.1)	ND (2)	ND (2)	ND (1)	ND (0.02)	0.132	1.08	0.43	1.13	0.477	0.169	ND (0.1)	ND (0.1)	ND (0.1)	ND (3)
		2-Jun-14	B-131		0.29 J	0.30 J	ND (1.0)	0.56 J	ND (1.0)	-	12.1	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	0.206	1.74	0.333	2.51	0.747	0.258	ND (0.10)	ND (0.10)	ND (0.10)	1.6 J
		20-May-15	B-131_20150520		2	0.9 J	ND (0.5)	0.6 J	ND (0.5)	-	11	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	0.4 J	2	0.4 J	3	0.7	0.4 J	0.2 J	0.2 J	ND (0.1)	0.13 J
		5-May-16	GW-11109613-B131-05-05-16-RM-012		1	ND (1)	ND (1)	0.6 J	ND (1)	-	8	ND (0.061)	ND (2)	ND (2)	ND (1)	ND (0.029)	0.29	1.9	0.66	2.3	0.76	0.37	0.090	0.12	0.021 J	ND (1.0)
	B-132D	11-Apr-11	B-132D_04112011		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-
		11-Apr-11	B-132D_04112011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		1-Jul-11	B-132D_07012011		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-
		1-Jul-11	B-132D_07012011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		31-May-12	B-132D_53112		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	2	-	ND (0.5)	ND (0.09)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (0.09)	ND (0.09)	0.3 J	ND (0.09)	-	-	-	-	-	ND (1.0)
		20-Aug-12	B-132D_082012		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	2	-	ND (0.5)	0.1 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.1)	ND (0.1)	0.3 J	0.1 J	0.2 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.0)
		1-Nov-12	B-132D_11112		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	2.0	-	ND (5.0)	0.047 J	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.015) *	ND (0.10)	ND (0.10)	0.17	ND (0.10)	0.055 J	ND (0.051)	ND (0.10)	ND (0.051)	ND (0.10)	ND (5.0)
		29-Mar-13	B-132D_32913		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	2.1	-	ND (2.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	0.180	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	6.4
		3-May-16	GW-11109613-B132D-05-03-16-RM-002		ND (1)	ND (1)	ND (1)	ND (1)	2	-	ND (2)	0.082	ND (2)	ND (2)	ND (1)	ND (0.028)	0.015 J	0.018 J	0.18	0.033 J	0.088	0.018 J	0.017 J	0.018 J	0.013 J	ND (1.0)
		27-Jun-19	B-132DAOI6_20190627		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	2	11 J	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0094)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		4-May-21	B-132D_20210504		0.21 J	ND (1.0)	ND (1.0)	ND (6.0)	2.1	ND (50)	ND (5.0)	0.13 J	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.50)	ND (0.50)	0.27 J	0.14 J	0.11 J	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.52)
	B-150	17-Oct-02	MW-3		610,000	59,000	ND (5,000)	ND (5,000)	ND (5,000)	-	ND (5,000)	ND (5,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		19-Nov-02	MW-3		500,000	62,000	ND (5,000)	ND (5,000)	ND (5,000)	-	ND (5,000)	ND (5,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		11-May-16	GW-11109613-B150-05-11-16-AC-046		480,000	55,000	320	1,400	ND (200)	-	12,000	52	ND (400)	ND (400)	ND (200)	ND (0.029)	0.53	2.8	4.5	0.93	0.86	0.52	0.40 J	0.53	0.22 J	ND (1.0)
		24-Aug-16	GW-11109613-B-150-082416-AC-019		320,000	33,000	270	1,100	ND (50)	-	7,500	31	76 J	31 J	ND (50)	ND (0.028)	ND (0.50)	0.90	1.2	0.15 J	0.15 J	0.10 J	ND (0.50)	ND (0.50)	ND (0.50)	0.12 J
		5-Jul-18	B-150_20180705		436,000 SL	55,600 SL	ND (1,000) SL	ND (3,000) SL	ND (1,000) SL	-	10,600 SL	175 SL	ND (1,000) SL	ND (1,000) SL	ND (1,000) SL	ND (0.0100) SL	6.60 SL	23.7 SL	44.5 SL	13.6 SL	7.75 SL	6.31 SL	4.43 SL	5.53 SL	2.34 SL	ND (2.00) SL
		11-Jul-19	B-150-SL_20190711		170,000 SL	23,000 SL	320 SL	1,100 SL	ND (20) SL	-	8,000 SL	77 SL	150 J SL	56 J SL	ND (200) SL	ND (0.0095) SL	0.1 J SL	1 SL	2 SL	0.4 J SL	0.3 J SL	0.1 J SL	ND (0.1) SL	ND (0.1) SL	ND (0.1) SL	ND (1.1) SL
		5-May-21	B-150_SL_20210505		420,000 SL	60,000 SL	430 SL	1,900 SL	ND (100) SL	ND (5,000) SL	9,000 SL	38 SL	ND (500) SL	ND (500) SL	ND (100) SL	ND (0.030) SL	0.20 J SL	1.2 SL	2.0 SL	0.64 SL	ND (0.50) SL	0.24 J SL	0.22 J SL	0.22 J SL	0.10 J SL	0.17 J SL
	B-153	9-Jun-06	B153-060906		ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	9	ND (5)	-	-	ND (5)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-
		4-Jan-13	B-153_010413		ND (1.0)	ND (1.0)	ND (1.0)	1.4	ND (1.0)	-	ND (2.0)	0.466	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	0.192	ND (0.10)	0.213	0.190	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		4-May-16	GW-11109613-B153-05-04-16-RM-010		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (0.061)	ND (2)	ND (2)	ND (1)	ND (0.029)	0.058	0.018 J	0.043 J	0.27	0.099	0.052	0.038 J	0.040 J	0.018 J	ND (1.0)
	B-156	8-Jun-06	B156-060806		390	22	6	39	ND (5)	-	84	ND (5)	-	-	ND (5)	ND (0.029)	ND (5)	16	17	ND (5)	-	-	-	-	-	-
		7-Jan-13	B-156_010713		301	21.0	5.5	33.2	ND (1.0)	-	101	1.65	5.5	5.6	ND (1.0)	ND (0.020)	0.161	8.16	9.87	0.883	1.79	0.184	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		10-May-16	GW-11109613-B154-05-10-16-MM-036		49	13	4	22	ND (1)	-	120	3.3	4	5	ND (1)	ND (0.029)	1.4	10	17	3.4	4.7	1.7	1.4	1.5	0.50	ND (1.0)
		28-Jun-19	B-156AOI6_20190628		99	21	6	30	ND (0.2)	-	110	ND (0.1)	7	6	ND (2)	ND (0.0094)	0.2 J	7	6	1	2	0.3 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		5-May-21	B-156_SL_20210505		210 SL	45 SL	3.8 J SL	21 J SL	ND (5.0) SL	ND (250) SL	100 SL	ND (0.50) SL	ND (25) SL	3.9 J SL	ND (5.0) SL	ND (0.029) SL	0.42 J SL	2.1 SL	ND (0.50) SL	1.2 SL	0.57 SL	0.45 J SL	0.30 J SL	0.29 J SL	ND (0.50) SL	ND (0.52) SL

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 6	B-158	8-Jun-06	B158-060806		ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (5)	ND (5)	-	-	ND (5)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-
		9-Nov-10	B-158		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (1)	ND (1)	ND (1)	1 J	-	-	-	-	-	0.072 J
		16-Nov-11	B-158		180	250	13	130	ND (1)	-	2 J	ND (0.96)	4 J	3 J	ND (1)	ND (0.0096)	0.35	0.23 J	0.19 J	0.80	-	-	-	-	-	0.10 J
		7-Jan-13	B-158_010713		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (2.0)	0.155	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	0.196	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		8-Apr-13	B-158_040813		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (0.1)	ND (2)	ND (2)	ND (1)	ND (0.02)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (3)
		2-Jun-14	B-158		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	0.126	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	1.7 J
		20-May-15	B-158_20150520		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	0.2 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.14 J
		9-May-16	GW-11109613-B158-05-09-16-AC-033		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	0.042 J	ND (2)	ND (2)	ND (1)	ND (0.029)	0.051	0.064	0.040 J	0.22	0.027 J	0.058	0.045 J	0.051	0.029 J	1.2
		22-Aug-16	GW-11109613-B-158-082216-AC-002		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	0.078	ND (2)	ND (2)	ND (1)	ND (0.028)	0.045 J	0.094	0.043 J	0.31	0.037 J	0.055	0.042 J	0.046 J	0.027 J	0.89 J
	B-165	4-Jan-13	B-165_010413		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	3.0	1.29	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	0.148	2.03	0.446	1.65	0.790	0.223	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		3-Jun-14	B-165		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	0.34 J	-	3.4	ND (0.10)	0.23 J	ND (2.0)	ND (1.0)	ND (0.020)	0.134	1.67	0.223	1.14	0.416	0.196	ND (0.10)	0.124	ND (0.10)	1.4 J
		20-May-15	B-165_20150520		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.6 J	-	6	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	0.2 J	2	0.1 J	2	0.6	0.2 J	ND (0.1)	0.1 J	ND (0.1)	0.11 J
		5-May-16	GW-11109613-B165-05-05-16-AC-015		4	ND (1)	ND (1)	ND (1)	2	-	5	ND (0.063)	ND (2)	ND (2)	ND (1)	ND (0.029)	0.13	1.4	0.37	1.2	0.48	0.17	0.039 J	0.050 J	0.025 J	1.0
		27-Jun-19	B-165AOI6_20190627		13	ND (0.2)	ND (0.2)	ND (0.5)	0.2 J	-	0.7 J	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.1)	2	ND (0.1)	1	0.5	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		5-May-21	B-165_20210505		7.0	0.50 J	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	0.28 J	ND (0.55)	4.4 J	2.4 J	ND (1.0)	ND (0.029)	ND (0.55)	ND (0.55)	ND (0.55)	0.22 J	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	0.073 J
	B-169	4-Jan-13	B-169_010413		5.2	2.0	1.8	6.3	ND (1.0)	-	8.3	41.7	4.7	ND (2.0)	ND (1.0)	ND (0.020)	0.131	1.98	1.44	0.646	0.377	0.197	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		9-Jan-13	B-169_010913		6.4	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (2.0)	0.165	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	0.268	0.527	0.296	0.587	0.217	0.187	0.223	0.222	0.173	ND (3.0)
		9-May-16	GW-11109613-B169-05-09-16-MM-024		0.7 J	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	0.071	ND (2)	ND (2)	ND (1)	ND (0.029)	0.17	0.043 J	0.069	0.27	0.084	0.17	0.17	0.19	0.12	33.8
		22-Aug-16	GW-11109613-B-169-082216-KC-001		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (0.069)	ND (2)	ND (2)	ND (1)	ND (0.028)	0.017 J	ND (0.057)	ND (0.069)	0.035 J	ND (0.057)	0.013 J	0.015 J	0.020 J	0.016 J	6.5
		10-Jul-19	B-169_20190710		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	ND (0.2)	-	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		29-Apr-21	B-169_20210429		ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.55)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	1.6
	B-170	5-May-16	GW-11109613-B170-05-05-16-AC-017		5	ND (1)	ND (1)	2	ND (1)	-	6	2.3	ND (2)	ND (2)	ND (1)	ND (0.029)	0.11	2.5	1.3	0.35	0.36	0.10	0.11	0.12	0.047 J	ND (1.0)
		5-May-16	GW-11109613-DUP2-05-05-16-AC-019	Field Duplicate	5	ND (1)	ND (1)	1	ND (1)	-	5	4.8	ND (2)	ND (2)	ND (1)	ND (0.029)	0.11	2.3	1.8	0.34	0.37	0.10	0.090	0.088	0.043 J	ND (1.0)
		22-Aug-16	GW-11109613-B-170-082216-KC-003		3	ND (1)	ND (1)	0.7 J	ND (1)	-	5	ND (0.068)	ND (2)	ND (2)	ND (1)	ND (0.029)	0.069	0.61	0.99	0.31	0.26	0.065	0.043 J	0.044 J	0.020 J	ND (1.0)
		10-Jul-19	B-170_20190710		2	0.4 J	0.3 J	1 J	ND (0.2)	-	6	49	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.1)	4	4	0.2 J	0.4 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		29-Apr-21	B-170_20210429		0.89 J	0.39 J	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	6.1	29	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.56)	2.2	1.1	ND (0.56)	0.34 J	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.52)
	B-172	5-May-16	GW-11109613-B172-05-05-16-AC-021		13	ND (1)	ND (1)	0.6 J	ND (1)	-	7	0.27	ND (2)	ND (2)	ND (1)	ND (0.029)	0.51	0.42	0.38	1.4	0.33	0.49	0.45	0.50	0.19	0.18 J
		23-Aug-16	GW-11109613-B-172-082316-AC-009		160	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (10)	ND (0.061)	ND (10)	ND (10)	ND (5)	ND (0.028)	0.25	0.56 J	0.26 J	1.0	0.33 J	0.27 J	0.18 J	0.18 J	0.085 J	0.30 J
		23-Aug-16	GW-11109613-B-172D-082316-AC-011	Field Duplicate	160	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (10)	ND (0.064)	ND (10)	ND (10)	ND (5)	ND (0.028)	0.15	0.23 J	0.036 J	0.86	0.10 J	0.13 J	0.092 J	0.094 J	0.041 J	0.25 J
		28-Jun-19	B-172AOI6_20190628		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	ND (0.2)	-	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0094)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		7-May-21	B-172_20210507		7.5	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.56)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.028)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	0.10 J
	URS-5	6-Jun-06	URS5-060606		5,900	4,900	600	2,900	ND (25)	-	37	270	-	-	140	ND (0.029)	ND (5)	17	25	ND (5)	-	-	-	-	-	-
		10-May-16	GW-11109613-URS5-05-10-16-MM-040		4,000	8,600	560	3,000	ND (25)	-	22 J	260	190	56	ND (25)	ND (0.029)	0.53	14	20	3.5	5.6	0.96	0.27 J	0.24 J	ND (0.51)	ND (1.0)
		24-Aug-16	GW-11109613-URS-5-082416-AC-020		2,300	1,500	280	1,500	ND (10)	-	13 J	150	92	27	ND (10)	0.089	0.11	1.5	12	1.7	3.3	0.23	0.058	0.056	0.017 J	ND (1.0)
		24-Aug-16	GW-11109613-URS-5-082416-KC-021		4,900	6,500	530	2,800	ND (20)	-	31 J	220	230	72	ND (20)	ND (0.040)	0.25 J	14	21	2.8	4.8	0.46 J	0.15 J	0.14 J	ND (0.51)	0.14 J
		29-Jun-18	URS-5_20180629		3,260	6,140	664	3,050	ND (1.00)	-	27.3	355	212	64.9	ND (1.00)	ND (0.0100)	0.110	24.3	38.7	3.21	6.50	0.174	ND (0.0500)	0.0716	ND (0.0500)	ND (2.00)
		29-Jun-18	URS-5_HS_20180629	Hydra Sleeve	3,430	2,570	539	2,360	ND (100)	-	ND (100)	414	186	ND (100)	ND (100)	ND (0.0100)	0.107	21.3	41.7	3.54	6.63	0.168	ND (0.0500)	0.0571	ND (0.0500)	ND (2.00)
		29-Jun-18	URS-5_DUP_20180629	Field Duplicate	3,980	4,960	613	2,770	ND (25.0)	-	25.4	359	219	65.0	ND (25.0)	ND (0.0100)	0.108	23.0	40.6	3.46	6.82	0.180	ND (0.0500)	0.0693	ND (0.0500)	ND (2.00)
		1-Jul-19	URS-5_20190701		3,300	4,400	530	2,300	ND (1)	-	26	180	240	73	ND (10)	ND (0.0095)	ND (0.1)	14	25	4	4	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		6-May-21	URS-5_20210506		3,900	8,700	680	3,300	ND (5.0)	80 J	26	280	230	68	ND (5.0)	ND (0.029)	ND (0.53)	14	26	2.4	3.4	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.52)
	C-134D	20-Jul-10	C-134D_072010		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1	-	ND (0.5)	ND (1)	0.5 J	ND (0.5)	ND (0.5)	ND (0.0097)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	ND (0.050)
		8-Apr-11	C-134D_04082011		ND (1)	ND (1)	ND (1)	ND (1)	1	-	ND (2)	ND (5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-
		8-Apr-11	C-134D_04082011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		1-Jul-11	C-134D_07012011		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.7 J	-	ND (0.5)	1 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (1)	2 J	2 J	ND (1)	-	-	-	-	-	-
		1-Jul-11	C-134D_07012011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		31-May-12	C-134D_53112		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	0.5 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (0.09)	0.3 J	0.2 J	0.1 J	-	-	-	-	-	ND (1.0)
		20-Aug-12	C-134D_082012		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	0.2 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	0.2 J	0.1 J	0.3 J	0.4 J	ND (0.1)	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.0)
		2-Nov-12	C-134D_110212		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	2.3	-	ND (5.0)	0.099 J	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.015) *	ND (0.10)	0.075 J	0.062	0.053 J	ND (0.10)	ND (0.050)	ND (0.10)	ND (0.050)	ND (0.10)	ND (5.0)
		1-Apr-13	C-134D_40113		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	0.92 J	-	ND (2.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	6.0
		20-Jul-16	GW-11109614-C-134D-072016-AC-002		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (0.061)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (0.051)	0.075	ND (0.061)	0.033 J	0.011 J	ND (0.051)	ND (0.051)	ND (0.051)	ND (0.051)	ND (1.0)
		19-Aug-16	GW-11109614-C134D-081916-AC-02		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (0.060)	ND (2)	ND (2)	ND (1)	ND (0.028)	ND (0.050)	ND (0.050)	ND (0.060)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (1.0)
		27-Jun-19	C-134DAOI6_20190627		2	ND (0.2)	ND (0.2)	ND (0.5)	0.3 J	ND (10)	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0094)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		30-Apr-21	C-134D_20210430		ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.55)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	0.13 J

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE µg/L	TOLUENE µg/L	ETHYLBENZENE µg/L	XYLENES, TOTAL (DIMETHYLBENZENE) µg/L	METHYL TERTIARY BUTYL ETHER µg/L	TERT-BUTYL ALCOHOL µg/L	ISOPROPYLBENZENE (CUMENE) µg/L	NAPHTHALENE µg/L	1,2,4-TRIMETHYLBENZENE µg/L	1,3,5-TRIMETHYLBENZENE µg/L	1,2-DICHLOROETHANE (EDC) µg/L	1,2-DIBROMOETHANE (EDB) µg/L	CHRYSENE µg/L	FLUORENE µg/L	PHENANTHRENE µg/L	PYRENE µg/L	ANTHRACENE µg/L	BENZO(A)ANTHRACENE µg/L	BENZO(A)PYRENE µg/L	BENZO(B)FLUORANTHENE µg/L	BENZO(G,H,I)PERYLENE µg/L	LEAD, Dissolved µg/L
AOI 7	C-51	9-Nov-05	C-51_11_9_2005		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	ND (1)	-	-	ND (1)	ND (0.02)	0.1	2.3	0.1	0.8	-	ND (0.1)	ND (0.1)	0.1	ND (0.1)	-
		5-Dec-06	C-51		ND (0.5)	ND (0.7)	ND (0.8)	ND (0.8)	ND (0.5)	-	ND (1.0)	ND (1.0)	-	-	ND (1.0)	ND (0.0097)	4.0 J	1.0 J	2.0 J	8.0	-	-	-	-	-	0.16 J
		17-Dec-07	C-51		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	-	ND (0.5)	ND (1.0)	-	-	ND (0.5)	ND (0.0097)	ND (1.0)	2.0 J	ND (1.0)	2.0 J	-	-	-	-	-	0.11 J
		5-Nov-08	C-51_110508		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (1)	-	ND (1)	2 J	-	-	-	-	-	0.059 J
		11-Nov-09	C-51		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	0.6	-	0.65	3.0	-	-	-	-	-	ND (0.050)
		12-Jan-10	C-51_011210		ND (0.5)	ND (0.5)	0.6 J	2	ND (0.5)	-	ND (0.5)	ND (1)	0.7 J	ND (0.5)	ND (0.5)	ND (0.0098)	ND (1)	2 J	ND (1)	2 J	-	-	-	-	-	ND (0.050)
		14-Jul-10	C-51_071410		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (1)	3 J	ND (1)	2 J	-	-	-	-	-	ND (0.050)
		27-Jul-16	GW-11109614-C-51-072716-JM-024		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	0.041 J	ND (2)	ND (2)	ND (1)	ND (0.028)	0.059	0.99	0.096	0.87	0.15	0.060	0.019 J	0.031 J	0.015 J	ND (1.0)
		27-Jul-16	GW-11109614-C-51D-072716-JM-026	Field Duplicate	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	0.070	ND (2)	ND (2)	ND (1)	ND (0.028)	0.13	1.8	0.22	1.7	0.32	0.12	0.053	0.071	0.041 J	ND (1.0)
	C-62	15-Jan-10	C-62_011510		ND (0.5)	ND (0.5)	ND (0.5)	2	ND (0.5)	-	0.9 J	ND (0.9)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (0.9)	ND (0.9)	2 J	ND (0.9)	-	-	-	-	-	0.076 J
		20-Jul-10	C-62_072010		ND (0.5)	ND (0.5)	ND (0.5)	0.6 J	ND (0.5)	-	0.5 J	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (1)	1 J	2 J	1 J	-	-	-	-	-	0.17 J
		27-Jul-16	GW-11109614-C-62-072716-JM-028		ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (10)	ND (0.061)	ND (10)	ND (10)	ND (5)	ND (0.028)	0.28	0.64	1.2	0.46	0.33	0.26	0.30	0.34	0.22	0.19 J
		23-May-17	C-62-20170523		ND (0.5)	ND (0.5)	ND (0.5)	0.8 J	ND (0.5)	-	0.9 J	9	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	0.4 J	0.9	1	0.7	0.4 J	0.4 J	0.5 J	0.5 J	0.4 J	0.29 J
		26-Jun-18	C-62_20180626		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	6.58	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	0.515	0.344	0.0542	0.113	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
	C-104	1-Jan-95 DM	C-104		ND	ND	ND	1.3 J	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-96 DM	C-104		ND (0.3)	ND (0.3)	3.8	ND (0.6)	-	-	-	-	-	-	-	-	4	-	-	-	-	2	ND (1)	ND (1)	-	-
		1-Jan-97 DM	C-104		ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	6	-	-	-	-	4	2	3	-	-
		1-Jan-98 DM	C-104		ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-99 DM	C-104		ND (1)	ND (1)	ND (1)	1	-	-	-	-	-	-	-	-	2	-	-	-	-	1	ND (1)	ND (1)	-	-
		1-Jan-00 DM	C-104		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (2)	ND (3)	-	-
		1-Jan-01 DM	C-104		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	20	-	-	-	-	17	12	9	-	-
		1-Jan-02 DM	C-104		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	ND (2)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		13-Nov-03	C-104		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	-	-	ND (2.0)	-	-	-	-	ND (2.0)	ND (2.0)	ND (2.0)	-	-
		21-Oct-04	C-104		ND (1.0)	ND (5.0)	ND (5.0)	ND (10)	ND (5.0)	-	ND (5.0)	ND (5.0)	-	-	ND (5.0)	ND (0.020)	2.8 J	ND (9.9)	ND (9.9)	ND (9.9)	-	-	-	-	-	ND (5.0)
		9-Nov-05	C-104_11_9_2005		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	ND (1)	-	-	ND (1)	ND (0.02)	0.5	3.7	0.3	2.4	-	0.6	0.2	0.3	ND (0.1)	-
		5-Dec-06	C-104		ND (0.5)	ND (0.7)	ND (0.8)	ND (0.8)	ND (0.5)	-	ND (1.0)	ND (1.0)	-	-	ND (1.0)	ND (0.0096)	7.0 J	9.0 J	ND (5.0)	15.0 J	-	-	-	-	-	0.13 J
		12-Dec-07	C-104		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	0.7 J	ND (1.0)	-	-	ND (0.5)	ND (0.0095)	13	12	5.0	34	-	-	-	-	-	0.12 J
		5-Nov-08	C-104_110508		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	0.6 J	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.010)	15 J	-	ND (10)	39 J	-	-	-	-	-	0.51 J
		11-Nov-09	C-104		ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	-	ND (3.0)	ND (5.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (0.0096)	0.20 J	-	0.14 J	1.7	-	-	-	-	-	0.076 J
		14-Jan-10	C-104_011410		ND (0.5)	ND (0.5)	ND (0.5)	0.6 J	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0099)	1 J	6	ND (1)	5 J	-	-	-	-	-	ND (0.050)
		19-Jul-10	C-104_071910		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	0.5 J	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (1)	9	1 J	3 J	-	-	-	-	-	ND (0.050)
		9-Nov-10	C-104		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	0.5 J	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (1)	8	ND (1)	2 J	-	-	-	-	-	0.078 J
		16-Nov-11	C-104		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.97)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	0.17 J	0.24 J	ND (0.078)	1.7	-	-	-	-	-	3.8
		8-Apr-13	C-104_040813		ND (1)	ND (1)	ND (1)	0.62 J	ND (1)	-	ND (2)	ND (0.1)	ND (2)	ND (2)	ND (1)	ND (0.02)	ND (0.1)	2.35	0.633	0.641	0.364	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (3)
		3-Jun-14	C-104		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	0.202	ND (0.10)	0.161	0.429	ND (0.10)	0.260	0.201	0.240	0.122	2.3 J
		21-May-15	C-104_20150521		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	0.2 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	1	7	3	3	1	0.8	0.6	0.5 J	0.3 J	ND (0.082)
		24-May-16	C-104-20160524		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	0.1 J	6	0.3 J	2	0.5 J	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.13)
		26-Jul-16	GW-11109614-C-104-072616-AC-015		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (0.061)	ND (2)	ND (2)	ND (1)	ND (0.028)	0.17	3.2	0.25	1.9	0.47	0.15	0.036 J	0.044 J	0.014 J	ND (1.0)
		23-May-17	C-104-20170523		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	0.3 J	5	1	2	0.6	0.2 J	0.2 J	ND (0.1)	ND (0.1)	ND (0.090)
		26-Jun-18	C-104_20180626		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	0.103	3.39	0.285	1.56	0.480	0.0909	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
	C-106	1-Aug-16	GW-11109614-C-106-080116-AC-042		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	0.15	ND (2)	ND (2)	ND (1)	ND (0.029)	0.33	0.76	1.5	0.93	0.40	0.26	0.19	0.27	0.049 J	0.10 J
		9-Jul-19	C-106-SL_20190709		ND (0.2) SL	ND (0.2) SL	ND (0.2) SL	ND (0.5) SL	ND (0.2) SL	-	ND (0.3) SL	ND (0.1) SL	ND (0.3) SL	ND (0.3) SL	ND (2) SL	ND (0.0094) SL	0.8 SL	1 SL	0.9 SL	2 SL	0.5 SL	0.7 SL	0.4 J SL	0.5 SL	0.3 J SL	ND (1.1) SL
		10-May-21	C-106_SL_20210510		1.1 SL	0.68 J SL	ND (1.0) SL	ND (6.0) SL	ND (1.0) SL	ND (50) SL	0.44 J SL	ND (0.51) SL	ND (5.0) SL	ND (5.0) SL	ND (1.0) SL	ND (0.028) SL	ND (0.51) SL	0.62 SL	0.79 SL	0.42 J SL	0.23 J SL	ND (0.51) SL	ND (0.51) SL	ND (0.51) SL	ND (0.51) SL	ND (0.52) SL

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 7	C-127	1-Jan-95 DM	C-127		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-96 DM	C-127		ND (0.3)	ND (0.3)	ND (0.4)	ND (0.6)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-97 DM	C-127		ND (1)	1	ND (1)	ND (1)	-	-	-	-	-	-	-	-	11	-	-	-	-	6	3	4	-	-
		1-Jan-98 DM	C-127		ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-99 DM	C-127		ND (1)	ND (1)	ND (1)	1	-	-	-	-	-	-	-	-	4	-	-	-	-	3	2	2	-	-
		1-Jan-00 DM	C-127		ND (1)	ND (1)	ND (1)	ND (1)	10	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (2)	ND (3)	-	-
		1-Jan-01 DM	C-127		ND (1)	1	2	2	8	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (2)	ND (3)	-	-
		13-Nov-03	C-127		ND (1)	ND (1)	ND (1)	ND (1)	16	-	-	-	-	-	-	-	ND (2)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		21-Oct-04	C-127		ND (1.0)	ND (5.0)	ND (5.0)	ND (10)	23	-	7.1	ND (5.0)	-	-	ND (5.0)	ND (0.020)	ND (0.14)	ND (9.8)	ND (9.8)	ND (9.8)	-	-	-	-	-	ND (5.0)
		9-Nov-05	C-127_11_9_2005		ND (1)	ND (1)	ND (1)	ND (1)	21	-	-	ND (1)	-	-	ND (1)	ND (0.02)	0.2	2.3	0.4	1.5	-	0.4	0.1	0.2	ND (0.1)	-
		5-Dec-06	C-127		ND (0.5)	ND (0.7)	ND (0.8)	ND (0.8)	27.0	-	5.0	ND (1.0)	-	-	ND (1.0)	ND (0.0096)	3.0 J	8.0	2.0 J	9.0	-	-	-	-	-	0.13 J
		12-Dec-07	C-127		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	22	-	3.0	ND (1.0)	-	-	ND (0.5)	ND (0.0096)	1.0 J	5.0	ND (0.9)	4.0 J	-	-	-	-	-	0.18 J
		5-Nov-08	C-127_110508		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	19	-	3	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	3 J	-	ND (1)	9	-	-	-	-	-	0.51 J
		11-Nov-09	C-127		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	10	-	6.0	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	0.46	-	0.93	3.3	-	-	-	-	-	ND (0.050)
		13-Jan-10	C-127_011310		ND (0.5)	ND (0.5)	ND (0.5)	0.7 J	5	-	3	ND (0.9)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (0.9)	4 J	ND (0.9)	3 J	-	-	-	-	-	0.070 J
		15-Jul-10	C-127_071510		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	6	-	7	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (1)	5	ND (1)	2 J	-	-	-	-	-	ND (0.050)
		9-Nov-10	C-127		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	12	-	10	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (1)	6	ND (1)	2 J	-	-	-	-	-	0.073 J
		16-Nov-11	C-127		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	10	-	9	ND (0.96)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	ND (0.90)	7.9	ND (0.75)	2.5	-	-	-	-	-	ND (0.080)
		8-Apr-13	C-127_040813		ND (1)	ND (1)	ND (1)	0.57 J	7.5	-	2.2	ND (0.1)	ND (2)	ND (2)	ND (1)	ND (0.02)	ND (0.1)	1.64	ND (0.1)	0.59	0.285	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (3)
		3-Jun-14	C-127		ND (0.50)	ND (1.0)	ND (1.0)	0.22 J	4.4	-	3.6	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	2.15	0.225	0.440	0.281	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		21-May-15	C-127_20150521		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	6	-	2	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	0.2 J	4	0.1 J	1	0.5 J	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.082)
		24-May-16	C-127-20160524		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	5	-	4	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.1)	3	0.3 J	0.7	0.4 J	0.1 J	0.1 J	ND (0.1)	0.6	ND (0.13)
		26-Jul-16	GW-11109614-C-127-072616-AC-020		ND (1)	ND (1)	ND (1)	ND (1)	5	-	6	ND (0.063)	ND (2)	ND (2)	ND (1)	ND (0.028)	0.13	1.1	0.30	0.92	0.59	0.11	0.079	0.058	0.36	ND (1.0)
		23-May-17	C-127-20170523		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	5	-	3	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	ND (0.1)	3	0.1 J	0.9	0.5 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.090)
		26-Jun-18	C-127_20180626		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	4.11	-	1.37	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	0.0880	3.14	ND (0.0500)	1.07	0.456	0.0591	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
	C-129	12-Jul-10	C-129_071210		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	2.5
		9-Nov-10	C-129		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	0.082 J
		17-Nov-11	C-129		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.97)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	0.73	ND (0.097)	0.24	0.34 J	-	-	-	-	-	1.0
		8-Apr-13	C-129_040813		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (0.1)	ND (2)	ND (2)	ND (1)	ND (0.02)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (3)
		3-Jun-14	C-129		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	2.2 J
		21-May-15	C-129_20150521		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.13 J
		24-May-16	C-129-20160524		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.13)
		1-Aug-16	GW-11109614-C-129-080116-AC-041		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	0.18	ND (2)	ND (2)	ND (1)	ND (0.029)	0.015 J	ND (0.051)	ND (0.061)	0.040 J	0.031 J	0.014 J	ND (0.051)	0.013 J	0.011 J	0.42 J
		23-May-17	C-129-20170523		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	0.1 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	0.5 J	0.1 J	0.4 J	0.6	0.2 J	0.4 J	0.4 J	0.5 J	0.4 J	0.39 J
		26-Jun-18	C-129_20180626		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
	C-129D	12-Jul-10	C-129D_071210		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.7 J	-	ND (0.5)	1 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (1)	ND (1)	2 J	ND (1)	-	-	-	-	-	ND (0.050)
		8-Apr-11	C-129D_04082011		ND (1)	ND (1)	ND (1)	ND (1)	2	-	ND (2)	ND (5)	ND (2)	ND (2)	ND (1)	ND (0.028)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-
		8-Apr-11	C-129D_04082011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		29-Jun-11	C-129D_06292011		ND (1)	ND (1)	ND (1)	ND (1)	2	-	ND (2)	ND (5)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-
		29-Jun-11	C-129D_06292011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		31-May-12	C-129D_53112		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	2	-	ND (0.5)	0.2 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (0.09)	0.1 J	2	0.3 J	-	-	-	-	-	ND (1.0)
		21-Aug-12	C-129D_082112		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	2	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.1)	ND (0.1)	1	0.3 J	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.0)
		1-Nov-12	C-129D_110112		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	2.0	-	ND (5.0)	ND (0.10)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.015) *	ND (0.10)	ND (0.10)	0.22	0.11	0.043 J	ND (0.050)	ND (0.10)	ND (0.050)	ND (0.10)	ND (5.0)
		2-Apr-13	C-129D_40213		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	0.82 J	-	ND (2.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	0.207	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	2.5 J
		21-Jul-16	GW-11109614-C-129D-072116-AC-004		ND (1)	ND (1)	ND (1)	ND (1)	1	-	ND (2)	ND (0.061)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (0.051)	0.035 J	ND (0.061)	0.14	0.016 J	ND (0.051)	ND (0.051)	ND (0.051)	ND (0.051)	ND (1.0)
		19-Aug-16	GW-11109614-C129D-081916-AC-01		0.6 J	ND (1)	ND (1)	ND (1)	0.6 J	-	ND (2)	0.095	ND (2)	ND (2)	ND (1)	ND (0.028)	ND (0.050)	0.11	0.13	0.071	0.041 J	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (1.0)
		26-Feb-19	C-129D_20190226		0.2 J	ND (0.2)	ND (0.2)	ND (0.5)	0.3 J	-	ND (0.3)	-	-	-	ND (2)	ND (0.3)	-	-	-	-	-	-	-	-	-	-
		11-Jul-19	C-129D_20190711		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	0.5 J	54	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.1)	0.1 J	0.2 J	0.2 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		13-May-21	C-129D_20210513		ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	0.74 J	120	ND (5.0)	ND (0.56)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.028)	ND (0.56)	ND (0.56)	ND (0.56)	0.13 J	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.52)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE µg/L	TOLUENE µg/L	ETHYLBENZENE µg/L	XYLENES, TOTAL (DIMETHYLBENZENE) µg/L	METHYL TERTIARY BUTYL ETHER µg/L	TERT-BUTYL ALCOHOL µg/L	ISOPROPYLBENZENE (CUMENE) µg/L	NAPHTHALENE µg/L	1,2,4-TRIMETHYLBENZENE µg/L	1,3,5-TRIMETHYLBENZENE µg/L	1,2-DICHLOROETHANE (EDC) µg/L	1,2-DIBROMOETHANE (EDB) µg/L	CHRYSENE µg/L	FLUORENE µg/L	PHENANTHRENE µg/L	PYRENE µg/L	ANTHRACENE µg/L	BENZO(A)ANTHRACENE µg/L	BENZO(A)PYRENE µg/L	BENZO(B)FLUORANTHENE µg/L	BENZO(G,H,I)PERYLENE µg/L	LEAD, Dissolved µg/L
AOI 7	C-144D	19-Jul-10	C-144D_071910		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.9 J	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	ND (0.050)
		5-Jul-11	C-144D_07052011		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.9 J	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-
		5-Jul-11	C-144D_07052011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		31-May-12	C-144D_53112		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1 J	-	ND (0.5)	0.2 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (0.09)	0.4 J	0.2 J	0.2 J	-	-	-	-	-	ND (1.0)
		21-Aug-12	C-144D_082112		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1 J	-	ND (0.5)	0.1 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	0.1 J	0.3 J	0.1 J	0.2 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.0)
		1-Nov-12	C-144D_110112		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	0.88 J	-	ND (5.0)	ND (0.10)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.015) *	ND (0.10)	0.19	ND (0.050)	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.10)	ND (0.050)	ND (0.10)	3.7 J
		2-Apr-13	C-144D_40213		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	2.4	-	ND (2.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	0.203	0.173	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		20-Jul-16	GW-11109614-C-144D-072016-AC-001		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (0.060)	ND (2)	ND (2)	ND (1)	ND (0.029)	ND (0.050)	ND (0.050)	ND (0.060)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (1.0)
		11-Jul-19	C-144D_20190711		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	ND (0.2)	ND (10)	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0094)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		30-Apr-21	C-144D_20210430		0.69 J	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.54)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.52)
	C-146	13-Jan-12	C-146_01132012		ND (1)	ND (1)	ND (1)	92	ND (1)	-	14	8	35	24	ND (1)	ND (0.029)	0.6	0.7	0.7	2	-	-	-	-	-	2.7
		1-Aug-16	GW-11109614-C-146-080116-JM-037		ND (5)	ND (5)	ND (5)	8	ND (5)	-	130	830	46	14	ND (5)	ND (0.029)	210	320	1,000	370	220	190	130	170	38	0.97 J
		23-Jul-18	C-146_20180723		ND (1.00) SL	ND (1.00) SL	ND (1.00) SL	ND (3.00) SL	ND (1.00) SL	-	61.6 SL	19.1 SL	3.87 SL	ND (1.00) SL	ND (1.00) OE SL	ND (0.0100) SL	21.0 SL	38.9 SL	96.2 SL	54.4 SL	23.8 SL	19.3 SL	11.8 SL	15.7 SL	5.64 SL	ND (2.00) SL
		25-Sep-18	C-146_20180925		-	-	-	-	-	-	-	24	-	-	-	-	1	5	10	3	2	1	0.7	0.8	0.3 J	-
		31-Oct-18	C-146_20181031		-	-	-	-	-	-	-	29	-	-	-	-	4	10	20	8	4	3	2	2	1	-
		9-Jul-19	C-146_20190709		0.4 J	ND (0.2)	ND (0.2)	ND (0.5)	ND (0.2)	-	19	9	0.6 J	ND (0.3)	ND (2)	ND (0.0095)	15	22	72	34	14	12	9	10	3	ND (1.1)
	C-150	14-May-21	C-150_SL_20210514		ND (1.0) SL	0.40 J SL	0.91 J SL	ND (6.0) SL	ND (1.0) SL	12 J SL	2.5 J SL	ND (0.63) SL	2.2 J SL	2.8 J SL	ND (1.0) SL	ND (0.028) SL	ND (0.63) SL	1.3 SL	0.53 J SL	0.26 J SL	0.23 J SL	ND (0.63) SL	ND (0.63) SL	ND (0.63) SL	ND (0.63) SL	0.14 J SL
	C-168	26-Jul-16	GW-11109614-C-168-072616-AC-019		600	14	79	470	ND (1)	-	22	ND (0.32)	170	65	ND (1)	0.027 J	1.6	3.9	3.0	3.5	0.96	1.6	1.1	1.4	0.53	0.62 J
		3-Jul-18	C-168_20180703		730	36.6	10.3	32.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		9-Jul-19	C-168-SL_20190709		110 SL	25 SL	2 SL	13 SL	ND (0.2) SL	-	0.4 J SL	6 SL	2 J SL	0.5 J SL	ND (2) SL	ND (0.0094) SL	ND (0.1) SL	2 SL	3 SL	2 SL	0.6 SL	0.4 J SL	0.4 J SL	0.4 J SL	0.2 J SL	ND (1.1) SL
		4-May-21	C-168_20210504		ND (1.0)	0.25 J	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	0.67 J	ND (0.51)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	0.88	0.46 J	0.52	3.3	0.23 J	0.68	1.1	1.3	0.55	0.091 J
AOI 8	N-1	1-Jan-85 DM	N-1		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-86 DM	N-1		ND (0.3)	ND (0.3)	ND (0.4)	ND (0.6)	-	-	-	-	-	-	-	-	ND (2)	-	-	-	-	ND	ND	ND	-	-
		1-Jan-88 DM	N-1		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-93 DM	N-1		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-94 DM	N-1		ND (5)	ND (5)	ND (5)	ND (10)	-	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (10)	ND (10)	-	-
		1-Jan-95 DM	N-1		ND	ND	0.5 J	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		4-Jan-96	N-1		ND (0.3)	ND (0.3)	ND (0.4)	ND (0.6)	-	-	-	-	-	-	-	-	2	-	-	-	-	2	2	2	-	-
		1-Jan-97 DM	N-1		ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-98 DM	N-1		ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Dec-99	N-1		ND (1)	ND (1)	ND (1)	ND (2)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		15-Nov-00	N-1		ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (2)	ND (3)	-	-
		15-Nov-01	N-1		ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (2)	ND (3)	-	-
		12-Nov-02	N-1		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	ND (2)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		13-Nov-03	N-1		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	-	-	ND (2.0)	-	-	-	-	ND (2.0)	ND (2.0)	ND (2.0)	-	-
		20-Oct-04	N-1		ND (1.0)	ND (5.0)	ND (5.0)	ND (10)	ND (5.0)	-	ND (5.0)	ND (5.0)	-	-	ND (5.0)	ND (0.020)	ND (0.14)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	ND (5.0)
		7-Nov-05	N-1_11_7_2005		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	ND (1)	-	-	ND (1)	ND (0.02)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-
		19-Dec-06	N-1		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1.0)	-	-	ND (0.5)	ND (0.0097)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	0.15 J
		4-Dec-07	N-1		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	-	ND (0.5)	ND (1.0)	-	-	ND (0.5)	ND (0.0098)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	0.089 J
		6-Feb-08	N-1_2/6/2008		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	-	-	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		15-Jul-08	N-1_7/15/2008		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	-	-	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		4-Nov-08	N-1_110408		ND (0.5)	ND (0.5)	ND (0.5)	0.5 J	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.9)	-	ND (0.9)	ND (0.9)	-	-	-	-	-	ND (0.050)
		16-Nov-09	N-1		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	0.068 J	-	0.050 J	ND (0.10)	-	-	-	-	-	ND (0.050)
		8-Nov-10	N-1		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	ND (0.052)
		17-Nov-11	N-1		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.96)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	0.10 J	ND (0.096)	0.13 J	0.27 J	-	-	-	-	-	1.5
		4-Apr-13	N-1_040413		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (2.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	0.13 J
		2-Jun-14	N-1		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	1.4 J
		19-May-15	N-1_20150519		0.9 J	ND (0.5)	0.7 J	2	ND (0.5)	-	ND (0.5)	0.2 J	0.5 J	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.082)
		23-May-16	N-1-20160523		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.13)
		22-Aug-16	N-1-20160822-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		14-Oct-16	N-1-20161014-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		23-May-17	N-1-20170523		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	0.2 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	0.2 J	0.3 J	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.090)
		29-Jun-18	N-1_20180629		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 8	N-2	4-Apr-13	N-2_040413		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	12.3	-	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	-	-	-	-	-	-	-	-	-	0.39 J
		2-Jun-14	N-2		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	1.8	0.117	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	0.766	0.268	0.394	1.27	0.498	0.807	0.959	1.34	1.43	4.1
		19-May-15	N-2_20150519		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	0.7	0.2 J	0.2 J	1	0.3 J	0.6	0.8	0.8	0.9	ND (0.082)
		17-Mar-16	N-2-20160317		ND (1)	ND (5)	ND (1)	ND (3)	ND (1)	-	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (0.01)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)
		23-May-16	N-2-20160523		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	0.4 J	0.6	0.1 J	1	0.2 J	0.4 J	0.5 J	0.5 J	0.4 J	ND (0.13)
		22-Aug-16	N-2-20160822-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.500)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	0.485	0.504	0.377	1.38	0.492	0.601	0.803	0.913	0.950	ND (2.00)
		7-Sep-16	N-2-20160907-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	1.19	0.277	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	0.263	1.42	0.482	1.20	1.00	0.308	0.225	0.274	0.162	ND (2.00)
		14-Oct-16	N-2-20161014-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	0.252	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	0.102	0.828	0.171	0.669	0.502	0.128	0.0703	0.0811	ND (0.0500)	ND (2.00)
		23-May-17	N-2-20170523		4	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	0.9 J	0.3 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	9	2	3	15	3	9	10	11	6	0.18 J
		29-Jun-18	N-2_20180629		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	0.526	0.115	0.509	0.218	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		26-Jun-19	N-2_20190626		ND (0.2)	0.2 J	ND (0.2)	ND (0.5)	ND (0.2)	-	4 J	0.4 J	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.09)	1	0.4 J	0.8	0.3 J	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (1.1)
	N-3	20-Oct-04	N-3		ND (1.0)	ND (5.0)	ND (5.0)	ND (10)	ND (5.0)	-	ND (5.0)	ND (5.0)	-	-	ND (5.0)	ND (0.020)	ND (0.14)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	ND (5.0)
		7-Feb-08	N-3_2/7/2008		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (50)	-	-	ND (1)	ND (0.029)	ND (50)	ND (50)	ND (50)	170	-	-	-	-	-	ND (1)
		15-Jul-08	N-3_7/15/2008		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	-	-	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	1.1
		17-Nov-09	N-3		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	0.86	-	0.65	2.1	-	-	-	-	-	0.15 J
		8-Nov-10	N-3		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	10	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	10	3 J	11	33	-	-	-	-	-	0.24 J
		20-Sep-11	N-3_09-20-2011		7.2	7	6.5	52	ND (2.0)	-	ND (2.0)	13	17	7	ND (1.0)	ND (0.05)	-	-	-	-	-	-	-	-	-	2.2
		17-Nov-11	N-3		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (4.8)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (1.9)	0.90 J	2.1	1.8 J	-	-	-	-	-	0.13 J
		4-Apr-13	N-3_040413		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (2.0)	-	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	-	-	-	-	-	-	-	-	-	30.5
		2-Jun-14	N-3		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	2.23	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	2.69	0.297	0.662	6.08	1.59	2.43	1.53	2.26	0.971	2.4 J
		19-May-15	N-3_20150519		3	3	0.9 J	4	ND (0.5)	-	0.6 J	5	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	10	1	2	13	5	7	6	6	2	2.4
		17-Mar-16	N-3-20160317		ND (1)	ND (5)	ND (1)	ND (3)	ND (1)	-	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (0.01)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)
		27-May-16	N-3-20160527		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	1	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	0.9	0.3 J	0.7	1	0.5	0.7	0.9	0.8	0.6	1.6
		22-Aug-16	N-3-20160822-WG		24.0	32.8	7.17	42.7	ND (1.00)	-	6.53	6.53	ND (1.00)	4.27	ND (1.00)	ND (0.0100) *	0.572	0.293	0.380	1.94	0.883	0.585	0.496	0.533	0.341	ND (2.00)
		17-Oct-16	N-3-20161017-WG		11.5	16.7	2.01	27.8	ND (1.00)	-	ND (1.00)	1.92	ND (1.00)	2.92	ND (1.00)	ND (0.0100) *	0.132	0.128	0.153	0.577	0.230	0.138	0.105	0.109	0.0818	ND (2.00)
		23-May-17	N-3-20170523		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	0.8	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	2	0.5 J	1	2	0.8	1	1	1	1	0.87 J
		29-Jun-18	N-3_20180629		6.75	9.30	3.36	8.84	ND (1.00)	-	4.42	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		26-Jun-19	N-3_20190626		ND (0.2)	0.4 J	0.7 J	1 J	ND (0.2)	-	0.6 J	1	ND (0.3)	1 J	ND (2)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		15-Apr-21	N-3_20210415		ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	0.24 J	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	0.21 J	ND (0.52)	0.22 J	0.35 J	0.12 J	0.17 J	0.31 J	0.24 J	0.29 J	ND (0.52)
	N-7	1-Jan-93 DM	N-7		ND	ND	ND	8	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-94 DM	N-7		ND (250)	ND (250)	480	ND (500)	-	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (10)	ND (10)	-	-
		1-Jan-95 DM	N-7		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		4-Jan-96	N-7		ND (0.3)	ND (0.3)	ND (0.4)	ND (0.6)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-97 DM	N-7		1	3	4	3	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-98 DM	N-7		ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Dec-99	N-7		ND (1)	ND (1)	ND (1)	ND (2)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		15-Nov-00	N-7		ND (1)	1.7	ND (1)	ND (2)	1.2	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (2)	ND (3)	-	-
		15-Nov-01	N-7		28	4	2	6	ND (1)	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (2)	ND (3)	-	-
		12-Nov-02	N-7		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	ND (2)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		13-Nov-03	N-7		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	-	-	ND (2.0)	-	-	-	-	ND (2.0)	ND (2.0)	ND (2.0)	-	-
		20-Oct-04	N-7		ND (1.0)	ND (5.0)	ND (5.0)	ND (10)	ND (5.0)	-	ND (5.0)	ND (5.0)	-	-	ND (5.0)	ND (0.020)	ND (0.14)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	ND (5.0)
		7-Nov-05	N-7_11_7_2005		ND (1)	ND (1)	ND (1)	2	ND (1)	-	-	ND (1)	-	-	ND (1)	ND (0.02)	ND (0.1)	1.1	0.7	ND (0.1)	-	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 8	N-8	20-Oct-04	N-8		ND (1.0)	ND (5.0)	ND (5.0)	ND (10)	ND (5.0)	-	ND (5.0)	ND (5.0)	-	-	ND (5.0)	ND (0.020)	ND (0.14)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	ND (5.0)
		6-Dec-06	N-8		ND (0.5)	ND (0.7)	ND (0.8)	ND (0.8)	ND (0.5)	-	ND (1.0)	ND (1.0)	-	-	ND (1.0)	ND (0.0097)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	-	-	-	-	-	0.14 J
		4-Dec-07	N-8		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	-	ND (0.5)	ND (1.0)	-	-	ND (0.5)	ND (0.0098)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	1.7
		7-Feb-08	N-8_2/7/2008		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	-	-	ND (1)	ND (0.03)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		16-Jul-08	N-8_07/16/08		1	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	-	-	ND (1)	ND (0.03)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		4-Nov-08	N-8_110408		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (1)	-	ND (1)	ND (1)	-	-	-	-	-	0.053 J
		16-Nov-09	N-8		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.059)	-	ND (0.039)	ND (0.098)	-	-	-	-	-	ND (0.050)
		8-Nov-10	N-8		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0099)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	0.074 J
		17-Nov-11	N-8		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.97)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.077)	ND (0.097)	ND (0.077)	ND (0.097)	-	-	-	-	-	ND (0.080)
		5-Apr-13	N-8_040513		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (2.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (1.0)
		2-Jun-14	N-8		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	1.3 J
		20-May-15	N-8_20150520		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.082)
		24-May-16	N-8-20160524		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.13)
		23-Aug-16	N-8-20160823-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		17-Oct-16	N-8-20161017-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		24-May-17	N-8-20170524		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	ND (0.1)	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.090)
		29-Jun-18	N-8_20180629		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	1.98	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
	N-9	7-Feb-08	N-9_2/7/2008		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	-	-	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		16-Jul-08	N-9_07/16/08		8	1	2	6	ND (1)	-	ND (2)	ND (5)	-	-	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		5-Apr-11	N-9_4-5-11		ND (0.5)	0.5 J	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-
		5-Apr-11	N-9_4-5-11 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		27-Jun-11	N-9_06272011		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-
		27-Jun-11	N-9_06272011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		25-May-12	N-9_52512		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.09)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	-	-	-	-	-	ND (1.0)
		17-Aug-12	N-9_81712		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.09)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	0.1 J	0.1 J	ND (0.09)	ND (1.0)
		31-Oct-12	N-9_103112		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (5.0)	0.24	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.015) *	ND (0.10)	0.61	1.6	0.25	0.33	0.17	ND (0.10)	ND (0.050)	ND (0.10)	ND (5.0)
		26-Mar-13	N-9_32613		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (2.0)	ND (0.15)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (3.0)
		26-Aug-16	N-9-20160826-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		17-Oct-16	N-9-20161017-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		24-Jun-19	N-9_20190624		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	ND (0.2)	-	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0094)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		14-Apr-21	N-9_20210414		ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	0.34 J	ND (50)	ND (5.0)	ND (0.51)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.52)
	N-13	7-Feb-08	N-13_2/7/2008		ND (1)	ND (1)	ND (1)	ND (1)	2	-	ND (2)	ND (5)	-	-	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		23-Jul-08	N-13_7/23/2008		ND (1)	ND (1)	ND (1)	ND (1)	2	-	ND (2)	ND (5)	-	-	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		6-Apr-11	N-13_04062011		0.5 J	1 J	ND (0.5)	ND (0.5)	1	-	3	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-
		6-Apr-11	N-13_04062011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		27-Jun-11	N-13_06272011		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.9 J	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-
		27-Jun-11	N-13_06272011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		24-May-12	N-13_52412		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.8 J	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-	-	-	-	-	ND (1.0)
		21-Aug-12	N-13_082112		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.9 J	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.0)
		31-Oct-12	N-13_103112		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	0.83 J	-	ND (5.0)	0.10	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.014) *	ND (0.10)	0.22	0.51	0.061 J	0.11	ND (0.050)	ND (0.10)	ND (0.050)	ND (0.10)	ND (5.0)
		29-Mar-13	N-13_032913		0.30 J	0.24 J	ND (1.0)	ND (1.0)	1.0	-	ND (2.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	4.1
		26-Aug-16	N-13-20160826-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		14-Oct-16	N-13-20161014-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	0.0977	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		24-Jun-19	N-13_20190624		25	8	0.7 J	9	ND (0.2)	-	5 J	ND (0.1)	0.4 J	0.4 J	ND (2)	ND (0.0094)	ND (0.1)	5	4	0.3 J	0.7	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 8	N-28	1-Jan-85 DM	N-28		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-86 DM	N-28		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-88 DM	N-28		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-93 DM	N-28		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	11	15	-	-
		1-Jan-94 DM	N-28		ND (5)	ND (5)	ND (5)	ND (10)	-	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (10)	ND (10)	-	-
		1-Jan-95 DM	N-28		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		4-Jan-96	N-28		ND (0.3)	ND (0.3)	ND (0.4)	ND (0.6)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-97 DM	N-28		ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-98 DM	N-28		ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Dec-99	N-28		ND (1)	ND (1)	ND (1)	ND (2)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		15-Nov-00	N-28		ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (2)	ND (3)	-	-
		15-Nov-01	N-28		ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	-	-	-	-	-	-	-	3	-	-	-	-	3	4	3	-	-
		12-Nov-02	N-28		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	ND (2)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		13-Nov-03	N-28		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	-	-	ND (2.0)	-	-	-	-	ND (2.0)	ND (2.0)	ND (2.0)	-	-
		20-Oct-04	N-28		ND (1.0)	ND (5.0)	ND (5.0)	ND (10)	ND (5.0)	-	ND (5.0)	ND (5.0)	-	-	ND (5.0)	ND (0.020)	ND (0.14)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	ND (5.0)
		7-Nov-05	N-28_11_7_2005		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	ND (1)	-	-	ND (1)	ND (0.02)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-	ND (0.1)	ND (0.1)	0.1	ND (0.1)	-
		19-Dec-06	N-28		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1.0)	-	-	ND (0.5)	ND (0.0097)	ND (1.0)	ND (1.0)	ND (1.0)	1.0 J	-	-	-	-	-	0.53 J
		4-Dec-07	N-28		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	-	ND (0.5)	ND (1.0)	-	-	ND (0.5)	ND (0.0095)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	0.29 J
		6-Feb-08	N-28_2/6/2008		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	-	-	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		16-Jul-08	N-28_07/16/08		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	-	-	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	1
		3-Nov-08	N-28_110308		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0099)	ND (0.9)	-	ND (0.9)	ND (0.9)	-	-	-	-	-	1.2
		16-Nov-09	N-28		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	0.17 J	-	0.15 J	0.38 J	-	-	-	-	-	0.28 J
		8-Nov-10	N-28		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	3 J	ND (1)	3 J	4 J	-	-	-	-	-	0.47 J
		17-Nov-11	N-28		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.95)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	0.087 J	ND (0.095)	ND (0.076)	ND (0.095)	-	-	-	-	-	0.40 J
		5-Apr-13	N-28_040513		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (2.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	15.6
	N-30	22-Jul-08	N-30_7/22/2008		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	-	-	ND (1)	ND (0.03)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		5-Apr-11	N-30_4-5-11		ND (0.5)	2	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	ND (1.0)
		5-Apr-11	N-30_4-5-11 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		28-Jun-11	N-30_06282011		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.9)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.9)	ND (0.9)	ND (0.9)	ND (0.9)	-	-	-	-	-	ND (1.0)
		28-Jun-11	N-30_06282011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		23-May-12	N-30_52312		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-	-	-	-	-	ND (1.0)
		15-Aug-12	N-30_081512		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.09)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	0.1 J	ND (0.09)	ND (0.09)	0.1 J	ND (0.09)	0.1 J	0.1 J	0.1 J	ND (0.09)	ND (1.0)
		26-Aug-16	N-30-20160826-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		7-Sep-16	N-30-20160907-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		18-Oct-16	N-30-20161018-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		24-Jun-19	N-30_20190624		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	ND (0.2)	-	ND (0.3)	ND (0.09)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (1.1)
		15-Apr-21	N-30_20210415		1.6	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.52)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 8	N-37	1-Jan-85 DM	N-37		ND	ND	ND	ND	-	-	-	-	-	-	-	-	62	-	-	-	-	55	49	32	-	-
		1-Jan-86 DM	N-37		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-88 DM	N-37		ND	ND	ND	ND	-	-	-	-	-	-	-	-	21	-	-	-	-	28	ND	ND	-	-
		1-Jan-93 DM	N-37		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-94 DM	N-37		ND (50)	ND (50)	ND (50)	ND (100)	-	-	-	-	-	-	-	-	ND (10)	-	-	-	-	2 J	1 J	ND (10)	-	-
		1-Jan-95 DM	N-37		ND	ND	ND	0.9 J	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		4-Jan-96	N-37		ND (0.3)	ND (0.3)	7.8	ND (0.6)	-	-	-	-	-	-	-	-	7	-	-	-	-	8	6	4	-	-
		1-Jan-97 DM	N-37		ND (1)	1	ND	2	-	-	-	-	-	-	-	-	5	-	-	-	-	8	4	2	-	-
		1-Jan-98 DM	N-37		ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	3	-	-	-	-	4	4	2	-	-
		1-Dec-99	N-37		ND (1)	ND (1)	ND (1)	ND (2)	-	-	-	-	-	-	-	-	2	-	-	-	-	2	2	1	-	-
		15-Nov-00	N-37		ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (2)	ND (3)	-	-
		15-Nov-01	N-37		ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	-	-	-	-	-	-	-	4	-	-	-	-	7	5	ND (3)	-	-
		12-Nov-02	N-37		2	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	ND (2)	-	-	-	-	3	3	ND (1)	-	-
		14-Nov-03	N-37		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	-	-	ND (2.0)	-	-	-	-	ND (2.0)	ND (2.0)	ND (2.0)	-	-
		19-Oct-04	N-37		ND (1.0)	ND (5.0)	ND (5.0)	ND (10)	ND (5.0)	-	ND (5.0)	ND (5.0)	-	-	ND (5.0)	ND (0.020)	ND (0.14)	ND (9.9)	ND (9.9)	ND (9.9)	-	-	-	-	-	ND (5.0)
		7-Nov-05	N-37_11_7_2005		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	ND (1)	-	-	ND (1)	ND (0.02)	0.1	ND (0.1)	ND (0.1)	0.1	-	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	-
		1-Dec-06	N-37		ND (0.5)	ND (0.7)	ND (0.8)	ND (0.8)	ND (0.5)	-	ND (1.0)	ND (1.0)	-	-	ND (1.0)	ND (0.0097)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	0.12 J
		5-Dec-07	N-37		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	-	ND (0.5)	ND (1.0)	-	-	ND (0.5)	ND (0.0095)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	0.13 J
		7-Feb-08	N-37_2/7/2008		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	-	-	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		24-Jul-08	N-37_7/24/2008		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	-	-	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		3-Nov-08	N-37_110308		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (0.9)	-	ND (0.9)	ND (0.9)	-	-	-	-	-	0.19 J
		11-Nov-09	N-37		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	0.55	-	ND (0.40)	0.8	-	-	-	-	-	0.075 J
		8-Nov-10	N-37		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	ND (0.052)
		17-Nov-11	N-37		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.95)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.076)	0.21 J	ND (0.076)	ND (0.13)	-	-	-	-	-	2.6
		4-Apr-13	N-37_040413		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	0.25 J	-	ND (2.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	0.048 J
		4-Jun-14	N-37		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	2.1 J
		20-May-15	N-37_20150520		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	ND (0.1)	ND (0.1)	0.2 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.082)
		26-May-16	N-37-20160526		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.13)
		25-Aug-16	N-37-20160825-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		18-Oct-16	N-37-20161018-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	0.0590	ND (2.00)
		24-May-17	N-37-20170524		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	0.1 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.090)
		27-Jun-18	N-37_20180627		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE µg/L	TOLUENE µg/L	ETHYLBENZENE µg/L	XYLENES, TOTAL (DIMETHYLBENZENE) µg/L	METHYL TERTIARY BUTYL ETHER µg/L	TERT-BUTYL ALCOHOL µg/L	ISOPROPYLBENZENE (CUMENE) µg/L	NAPHTHALENE µg/L	1,2,4-TRIMETHYLBENZENE µg/L	1,3,5-TRIMETHYLBENZENE µg/L	1,2-DICHLOROETHANE (EDC) µg/L	1,2-DIBROMOETHANE (EDB) µg/L	CHRYSENE µg/L	FLUORENE µg/L	PHENANTHRENE µg/L	PYRENE µg/L	ANTHRACENE µg/L	BENZO(A)ANTHRACENE µg/L	BENZO(A)PYRENE µg/L	BENZO(B)FLUORANTHENE µg/L	BENZO(G,H,I)PERYLENE µg/L	LEAD, Dissolved µg/L
AOI 8	N-57	1-Jan-85 DM	N-57		330	ND	2,100	17,100	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-86 DM	N-57		300	ND	1,300	10,900	-	-	-	-	-	-	-	-	21	-	-	-	-	14	16	16	-	-
		1-Jan-88 DM	N-57		ND	ND	ND	1,600	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-93 DM	N-57		20	2	4	567	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-94 DM	N-57		110 J	ND (250)	720	4,140	-	-	-	-	-	-	-	-	5 J	-	-	-	-	ND (10)	2 J	ND (10)	-	-
		1-Jan-95 DM	N-57		89	ND	ND	3,040	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		4-Jan-96	N-57		190	2.8	13	2,000	-	-	-	-	-	-	-	-	1	-	-	-	-	1	2	ND (1)	-	-
		1-Jan-97 DM	N-57		180	ND (100)	ND (100)	1,900	-	-	-	-	-	-	-	-	2	-	-	-	-	2	2	1	-	-
		1-Jan-98 DM	N-57		82 J	ND (100)	ND (100)	1,600	-	-	-	-	-	-	-	-	8	-	-	-	-	8	12	3	-	-
		1-Dec-99	N-57		120	ND (100)	ND (100)	660	-	-	-	-	-	-	-	-	13	-	-	-	-	10	15	9	-	-
		15-Nov-00	N-57		110	ND (100)	ND (100)	440	260	-	-	-	-	-	-	-	12	-	-	-	-	9	14	7	-	-
		15-Nov-01	N-57		75	ND (10)	ND (10)	240	ND (10)	-	-	-	-	-	-	-	3	-	-	-	-	2	ND (2)	ND (3)	-	-
		12-Nov-02	N-57		6	ND (1)	2	203	ND (1)	-	-	-	-	-	-	-	2	-	-	-	-	1	3	ND (1)	-	-
		14-Nov-03	N-57		24.1	1.1	1.1	32.3	ND (1.0)	-	-	-	-	-	-	-	0.63 J	-	-	-	-	ND (2.0)	0.70 J	0.58 J	-	-
		19-Oct-04	N-57		38	ND (5.0)	ND (5.0)	140	ND (5.0)	-	ND (5.0)	ND (5.0)	-	-	ND (5.0)	ND (0.020)	ND (0.14)	ND (9.8)	ND (9.8)	ND (9.8)	-	-	-	-	-	ND (5.0)
		7-Nov-05	N-57_11_7_2005		2	ND (1)	1	57	ND (1)	-	-	ND (1)	-	-	ND (1)	ND (0.02)	7.9	5.2	ND (1.2)	14.5	-	16.9	22.4	20.3	17.1	-
		1-Dec-06	N-57		ND (0.5)	ND (0.7)	ND (0.8)	24	ND (0.5)	-	2.0 J	ND (1.0)	-	-	ND (1.0)	ND (0.0097)	1.0 J	ND (1.0)	ND (1.0)	1.0 J	-	-	-	-	-	0.14 J
		5-Dec-07	N-57		ND (0.5)	ND (0.5)	0.5 J	19	-	-	1.0 J	ND (1.0)	-	-	ND (0.5)	ND (0.0096)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	0.21 J
		7-Feb-08	N-57_2/7/2008		2	ND (1)	2	230	ND (1)	-	4	ND (5)	-	-	ND (1)	ND (0.03)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		25-Jul-08	N-57_7/25/2008		ND (5)	ND (5)	ND (5)	120	ND (5)	-	ND (10)	ND (24)	-	-	ND (5)	ND (0.029)	ND (24)	ND (24)	ND (24)	ND (24)	-	-	-	-	-	ND (1)
		4-Nov-08	N-57_110408		ND (0.5)	0.6 J	0.6 J	93	ND (0.5)	-	3	ND (1)	3	0.5 J	ND (0.5)	ND (0.0097)	1 J	-	ND (0.9)	ND (0.9)	-	-	-	-	-	0.11 J
		11-Nov-09	N-57		ND (0.5)	0.7 J	ND (0.5)	230	ND (0.5)	-	2	ND (1)	8.0	1 J	ND (0.5)	ND (0.0098)	ND (0.20)	-	ND (0.20)	ND (0.50)	-	-	-	-	-	0.090 J
		8-Nov-10	N-57		0.5 J	1	0.7 J	600	ND (0.5)	-	4	2 J	13	4	ND (0.5)	ND (0.0099)	ND (1)	1 J	ND (1)	ND (1)	-	-	-	-	-	0.070 J
		17-Nov-11	N-57		ND (0.5)	ND (0.5)	ND (0.5)	280	ND (0.5)	-	1 J	ND (4.8)	3	1 J	ND (0.5)	ND (0.0096)	ND (0.38)	ND (0.48)	ND (0.38)	ND (0.48)	-	-	-	-	-	ND (0.080)
		4-Apr-13	N-57_040413		ND (5.0)	ND (5.0)	ND (5.0)	384	ND (5.0)	-	ND (10)	ND (0.10)	5.6 J	ND (10)	ND (5.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	0.064 J
		2-Jun-14	N-57		ND (0.50)	0.54 J	ND (1.0)	267	ND (1.0)	-	1.2	ND (0.10)	5.8	2.0	ND (1.0)	ND (0.020)	0.313	ND (0.10)	ND (0.10)	0.357	ND (0.10)	0.180	0.739	0.283	1.34	ND (3.0)
		20-May-15	N-57_20150520		ND (5)	ND (5)	ND (5)	250	ND (5)	-	ND (5)	0.2 J	ND (5)	ND (5)	ND (5)	ND (0.0096)	1	0.4 J	0.3 J	0.9	0.2 J	0.6	2	1	2	0.30 J
		26-May-16	N-57-20160526		ND (0.5)	ND (0.5)	ND (0.5)	56	ND (0.5)	-	0.7 J	ND (0.1)	1 J	ND (0.5)	ND (0.5)	ND (0.0097)	0.3 J	ND (0.1)	0.1 J	0.3 J	ND (0.1)	0.2 J	0.4 J	0.3 J	0.5 J	0.23 J
		24-Aug-16	N-57-20160824-WG		ND (1.00)	ND (5.00)	ND (1.00)	250	ND (1.00)	-	1.61	ND (0.250)	3.83	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	0.188	0.101	0.439	0.163	0.127	0.479	0.238	0.678 J+	ND (2.00)
		19-Oct-16	N-57-20161019-WG		ND (1.00)	ND (5.00)	ND (1.00)	118	ND (1.00)	-	1.63	ND (0.250)	2.67	ND (1.00)	ND (1.00)	ND (0.0100) *	0.0562	0.120	ND (0.0500)	0.234	0.0702	0.0689	0.168	0.0793	0.329	ND (2.00)
		24-May-17	N-57-20170524		ND (5)	ND (5)	ND (5)	290	ND (5)	-	ND (5)	0.1 J	ND (5)	ND (5)	ND (5)	ND (0.0096)	0.9	0.4 J	0.2 J	1	ND (0.1)	0.6	1	0.7	2	0.091 J
		13-Jul-18	N-57_20180713		ND (1.00)	ND (1.00)	ND (1.00)	36.4	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	0.0684	ND (0.0500)	0.201	ND (0.0500)	0.0903	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 8	N-60	1-Jan-85 DM	N-60		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-86 DM	N-60		6	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-88 DM	N-60		96	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-93 DM	N-60		13	ND	ND	ND	-	-	-	-	-	-	-	-	13	-	-	-	-	ND	ND	ND	-	-
		1-Jan-94 DM	N-60		ND (250)	ND (250)	ND (250)	ND (500)	-	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (10)	ND (10)	-	-
		1-Jan-95 DM	N-60		ND	ND	ND	ND	-	-	-	-	-	-	-	-	2 J	-	-	-	-	2 J	ND	ND	-	-
		11-Jan-96	N-60		16	ND (0.3)	ND (0.4)	ND (0.6)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-97 DM	N-60		7	5	ND (1)	ND (1)	-	-	-	-	-	-	-	-	6	-	-	-	-	3	2	2	-	-
		1-Jan-98 DM	N-60		9	3	ND (1)	6	-	-	-	-	-	-	-	-	10	-	-	-	-	8	7	5	-	-
		1-Dec-99	N-60		ND (100)	ND (100)	ND (100)	ND (200)	-	-	-	-	-	-	-	-	3	-	-	-	-	3	2	1	-	-
		15-Nov-00	N-60		ND (1)	ND (1)	ND (1)	ND (2)	960	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (2)	ND (3)	-	-
		15-Nov-01	N-60		4	1	ND (1)	ND (2)	ND (1)	-	-	-	-	-	-	-	9	-	-	-	-	8	4	3	-	-
		12-Nov-02	N-60		3	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	2	-	-	-	-	2	2	ND (1)	-	-
		14-Nov-03	N-60		0.99 J	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	-	-	ND (2.0)	-	-	-	-	ND (2.0)	ND (2.0)	ND (2.0)	-	-
		19-Oct-04	N-60		ND (1.0)	ND (5.0)	ND (5.0)	ND (10)	ND (5.0)	-	ND (5.0)	ND (5.0)	-	-	ND (5.0)	ND (0.020)	1.9 J	ND (9.9)	ND (9.9)	ND (9.9)	-	-	-	-	-	ND (5.0)
		7-Nov-05	N-60_11_7_2005		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	ND (1)	-	-	ND (1)	ND (0.02)	7.8	3.3	2.2	8.6	-	17.4	ND (1.2)	9.3	ND (1.2)	-
		1-Dec-06	N-60		ND (0.5)	ND (0.7)	ND (0.8)	ND (0.8)	ND (0.5)	-	ND (1.0)	ND (1.0)	-	-	ND (1.0)	ND (0.0096)	9.0	2.0 J	ND (1.0)	8.0	-	-	-	-	-	0.18 J
		5-Dec-07	N-60		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	-	ND (0.5)	ND (1.0)	-	-	ND (0.5)	ND (0.0096)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	0.42 J
		7-Feb-08	N-60_2/7/2008		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	-	-	ND (1)	ND (0.029)	11	ND (5)	ND (5)	11	-	-	-	-	-	ND (1)
		25-Jul-08	N-60_7/25/2008		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	-	-	ND (1)	ND (0.03)	14	ND (5)	ND (5)	12	-	-	-	-	-	ND (1)
		4-Nov-08	N-60_110408		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	5	-	ND (1)	4 J	-	-	-	-	-	0.24 J
		11-Nov-09	N-60		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	4.0	-	0.56	3.8	-	-	-	-	-	0.095 J
		8-Nov-10	N-60		0.6 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	4 J	1 J	ND (1)	3 J	-	-	-	-	-	0.57 J
		17-Nov-11	N-60		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (4.8)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	6.0	0.81 J	0.50 J	2.2	-	-	-	-	-	3.9
		4-Apr-13	N-60_040413		ND (2.0)	0.66 J	ND (2.0)	ND (2.0)	2.9	-	ND (4.0)	ND (0.10)	ND (4.0)	ND (4.0)	ND (2.0)	ND (0.020)	ND (0.10)	0.263	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	0.072 J

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 8	N-64	1-Jan-93 DM	N-64		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		1-Jan-94 DM	N-64		ND (250)	ND (250)	90 J	ND (500)	-	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (10)	ND (10)	-	-
		1-Jan-95 DM	N-64		ND	ND	ND	ND	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	-	-
		11-Jan-96	N-64		ND (0.3)	ND (0.3)	ND (0.4)	ND (0.6)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-97 DM	N-64		ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		1-Jan-98 DM	N-64		ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	1	-	-	-	-	1	ND (1)	ND (1)	-	-
		1-Dec-99	N-64		ND (1)	ND (1)	ND (1)	ND (2)	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		15-Nov-00	N-64		ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	-	-	-	-	-	-	-	ND (1)	-	-	-	-	ND (1)	ND (2)	ND (3)	-	-
		15-Nov-01	N-64		ND (1)	ND (1)	ND (1)	ND (2)	ND (1)	-	-	-	-	-	-	-	4	-	-	-	-	3	3	ND (3)	-	-
		12-Nov-02	N-64		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	ND (2)	-	-	-	-	ND (1)	ND (1)	ND (1)	-	-
		14-Nov-03	N-64		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	-	-	ND (2.0)	-	-	-	-	ND (2.0)	ND (2.0)	ND (2.0)	-	-
		19-Oct-04	N-64		ND (1.0)	ND (5.0)	ND (5.0)	ND (10)	ND (5.0)	-	ND (5.0)	ND (5.0)	-	-	ND (5.0)	ND (0.020)	-	-	-	-	-	-	-	-	-	ND (5.0)
		7-Nov-05	N-64_11_7_2005		ND (1)	ND (1)	ND (1)	1	ND (1)	-	-	ND (1)	-	-	ND (1)	ND (0.02)	ND (0.1)	2.7	0.5	0.5	-	0.2	ND (0.1)	ND (0.1)	ND (0.1)	-
		1-Dec-06	N-64		ND (0.5)	ND (0.7)	ND (0.8)	ND (0.8)	ND (0.5)	-	ND (1.0)	ND (1.0)	-	-	ND (1.0)	ND (0.0097)	ND (1.0)	6.0	2.0 J	2.0 J	-	-	-	-	-	0.18 J
		5-Dec-07	N-64		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	-	ND (0.5)	ND (1.0)	-	-	ND (0.5)	ND (0.0096)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	2.9
		8-Feb-08	N-64_2/8/2008		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	-	-	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		23-Jul-08	N-64_7/23/2008		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	-	-	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		3-Nov-08	N-64_110308		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.9)	-	ND (0.9)	ND (0.9)	-	-	-	-	-	18.1
		16-Nov-09	N-64		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	0.14 J	-	0.85	0.96	-	-	-	-	-	0.36 J
		8-Nov-10	N-64		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.9)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.9)	2 J	ND (0.9)	ND (0.9)	-	-	-	-	-	12.8
		17-Nov-11	N-64		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.98)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	0.12 J	7.6	1.7	0.74	-	-	-	-	-	0.37 J
		5-Apr-13	N-64_040513		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (0.1)	0.22 J	ND (2)	ND (1)	ND (0.02)	ND (0.1)	3.16	0.873	0.177	0.738	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (3)
		2-Jun-14	N-64		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	0.43 J	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	0.113	4.92	1.02	0.493	1.08	0.112	ND (0.10)	0.127	ND (0.10)	11.8
		20-May-15	N-64_20150520		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	3	0.8	0.3 J	0.8	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.082)
		26-May-16	N-64-20160526		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0094)	0.3 J	4	2	0.6	1	0.3 J	0.2 J	0.2 J	0.1 J	0.14 J
		25-Aug-16	N-64-20160825-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	4.08	1.56	0.359	1.21	0.0526	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		19-Oct-16	N-64-20161019-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	0.395	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	4.61	1.61	0.248	1.00	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 8	N-69	20-Oct-04	N-69		ND (1.0)	ND (5.0)	ND (5.0)	ND (10)	ND (5.0)	-	6.9	ND (5.0)	-	-	ND (5.0)	ND (0.020)	ND (0.14)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	ND (5.0)
		6-Feb-08	N-69_2/6/2008		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	5	ND (5)	-	-	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		18-Jul-08	N-69_7/18/2008		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	2	ND (5)	-	-	ND (1)	ND (0.03)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		28-Feb-14	N-69_022814		ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		12-Jun-14	N-69_061214		ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		7-Aug-14	N-69_080714		ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		16-Dec-14	N-69_121614		ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		11-Mar-15	MW-4_031115		ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		24-Apr-15	MW-4_042415		ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		11-Sep-15	N-69_20150911		ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		30-Oct-15	MW-4_103015		ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3-Feb-16	MW-4_020316		ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		9-May-16	MW-4-20160509-WG		ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		23-Aug-16	N-69-20160823-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	2.27	0.264	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	0.339	0.157	0.0773	0.131	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		12-Sep-16	MW-4_20160912-WG		ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		18-Oct-16	N-69-20161018-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	3.62	0.298	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	0.307	0.191	0.0708	0.0895	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		6-Dec-16	MW-4-20161206-WG		ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		9-Feb-17	N-69-20170209		ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		27-Apr-17	N-69-20170427-WG		ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		19-Jul-17	N-69-20170719-WG		ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		21-Dec-17	N-69-20171221-WG		ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		22-Mar-18	N-69-20180322-WG		ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		20-Jun-18	N-69-20180620-WG		ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		15-Aug-18	N-69-20180815-WG		ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		18-Dec-18	N-69-20181218-WG		ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		22-Feb-19	N-69-20190222-WG		ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		16-Apr-19	N-69-20190416-WG		ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		24-Jun-19	N-69_20190624		ND (0.2)	ND (0.2)	0.2 J	ND (0.5)	ND (0.2)	-	0.4 J	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	0.2 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		15-Apr-21	N-69_20210415		ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.52)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.030)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)
	N-74	2-Jul-19	N-74-SL_20190702		670 SL	ND (1) SL	ND (1) SL	ND (3) SL	ND (1) SL	-	ND (2) SL	0.9 SL	2 J SL	ND (2) SL	ND (10) SL	ND (0.0094) SL	1 SL	1 SL	3 SL	2 SL	1 SL	0.7 SL	ND (0.1) SL	ND (0.1) SL	ND (0.1) SL	ND (1.1) SL
		15-Apr-21	N-74_SL_20210415		46 SL	ND (1.0) SL	ND (1.0) SL	ND (6.0) SL	ND (1.0) SL	ND (50) SL	0.26 J SL	ND (0.51) SL	ND (5.0) SL	ND (5.0) SL	ND (1.0) SL	ND (0.029) SL	0.44 J SL	0.19 J SL	ND (0.51) SL	0.87 SL	ND (0.51) SL	0.24 J SL	0.18 J SL	0.10 J SL	ND (0.51) SL	ND (0.52) SL
	N-75	7-Feb-08	N-74_2/7/2008		25	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	-	-	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		25-Jul-08	N-74_7/25/2008		4	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	-	-	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		22-May-15	N-74_20150522		10	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	0.5 J	2	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	2	1	0.4 J	0.6	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.085 J
		27-May-16	N-74-20160527		26	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	0.6 J	1	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	3	0.5 J	0.5 J	0.6	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.13)
		24-Aug-16	N-74-20160824-WG		13.8	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	1.22	ND (1.00)	ND (1.00)	ND (1.00) OE	ND (0.0100) *	ND (0.0500)	3.19	0.490	0.443	0.694	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500) OE	ND (2.00)
		19-Oct-16	N-74-20161019-WG		21.4	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	1.07	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	2.09	0.379	0.250	0.410	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		24-May-17	N-74-20170524		6	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	0.7	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	ND (0.1)	2	0.4 J	0.4 J	0.5 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.090)
		29-Jun-18	N-75_20180629		9.62	ND (1.00)	ND (1.00)	ND (3.00)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		29-Jun-18	N-75_HS_20180629	Hydra Sleeve	20.4	ND (1.00)	ND (1.00)	ND (3.00)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		26-Jun-19	N-75_20190626		6 J	ND (2)	ND (2)	ND (5)	ND (2)	-	ND (3)	0.7	ND (3)	ND (3)	ND (20)	ND (0.0094)	ND (0.09)	3	ND (0.09)	0.8	0.5	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (1.1)
		14-Apr-21	N-75_20210414		8.2	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	1,100 E	0.82 J	1.0	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.51)	3.0	0.29 J	0.69	0.55	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.52)
	N-82	29-Aug-16	N-82-20160829-WG		22,100 SL	6,390 SL	3,230 SL	3,880 SL	ND (50.0) SL	-	84.4 SL	6,820 SL	331 SL	94.7 SL	ND (50.0) SL	ND (0.0100) SL	1.27 SL	21.8 SL	31.1 SL	5.21 SL	9.34 SL	1.15 SL	0.703 SL	0.833 SL	0.283 SL	ND (2.00) SL
		19-Oct-16	N-82-20161019-WG		16,600 SL	3,840 SL	3,260 SL	3,770 SL	ND (100) SL	-	105 SL	11,800 SL	588 SL	201 SL	ND (100) SL	ND (0.0100) OE SL *	35.8 SL	227 SL	335 SL	146 SL	77.4 SL	34.2 SL	24.4 SL	29.4 SL	10.2 SL	ND (2.00) SL
		12-Dec-16	N-82		15,200 SH SL	1,390 SL	3,420 SL	3,560 SL	ND (100) SL	-	104 SL	12,000 SL *	412 SL	108 SL	ND (100) SL	ND (0.0100) SL	2.46 SL	41.2 SL	47.7 SL	8.01 SL	9.70 SL	2.42 SL	1.50 SL	1.85 SL	0.802 SL	ND (2.00) SL
		13-Jul-18	N-82_20180713		13,000 SL	4,320 SL	4,550 SL	3,570 SL	ND (50.0) SL	-	153 SL	9,820 SL	612 SL	176 SL	ND (50.0) SL	ND (0.0100) SL	0.787 SL	43.3 SL	35.9 SL	3.72 SL	6.51 SL	0.765 SL	ND (0.500) SL	0.505 SL	ND (0.500) SL	ND (2.00) SL
		3-Jul-19	N-82-SL_20190703		2,500 SL	1,000 SL	2,700 SL	1,700 SL	ND (1) SL	-	130 SL	4,500 SL	540 SL	150 SL	ND (10) SL	ND (0.0095) SL	5 SL	44 SL	58 SL	14 SL	13 SL	5 SL	3 SL	3 SL	1 SL	ND (1.1) SL
		16-Apr-21	N-82_SL_20210416		670 SL	13 SL	2,400 SL	570 SL	ND (5.0) SL	ND (250) SL	94 SL	3,500 SL	300 SL	78 SL	ND (5.0) SL	ND (0.029) SL	0.72 SL	16 SL	16 SL	2.8 SL	2.9 SL	0.55 SL	0.54 SL	0.54 SL	0.29 J SL	ND (0.52) SL

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 8	N-85	19-Oct-04	N-85		ND (1.0)	ND (5.0)	ND (5.0)	ND (10)	ND (5.0)	-	26	ND (5.0)	-	-	ND (5.0)	ND (0.020)	ND (0.14)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	ND (5.0)
		6-Feb-08	N-85_2/6/2008		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	2	ND (5)	-	-	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		16-Jul-08	N-85_07/16/08		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	2	ND (50)	-	-	ND (1)	ND (0.03)	ND (50)	ND (50)	ND (50)	ND (50)	-	-	-	-	-	ND (1)
		5-Jun-14	N-85		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	0.34 J	-	0.30 J	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	1.5 J
		20-May-15	N-85_20150520		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	ND (0.1)	0.4 J	0.2 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.13 J
		26-May-16	N-85-20160526		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0093)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.13)
		23-Aug-16	N-85-20160823-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.500)	0.218	0.161	ND (0.500)	0.363	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (2.00)
		17-Oct-16	N-85-20161017-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	0.266	0.350	0.141	0.0896	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		24-May-17	N-85-20170524		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	0.7 J	0.1 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	0.3 J	0.1 J	0.2 J	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.090)
		2-Jul-18	N-85_20180702		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	11.3	0.327	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0101)	ND (0.0500)	0.537	0.283	ND (0.0500)	0.0890	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		15-Apr-21	N-85_20210415		0.43 J	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	0.42 J	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.56)	0.46 J	0.70	0.20 J	0.19 J	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.52)
	N-98	14-Jul-08	N-98_07/14/08		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	-	-	ND (1)	ND (0.03)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		20-Sep-11	N-98_09-20-2011		ND (1.0)	ND (2.0)	ND (2.0)	ND (6.0)	ND (2.0)	-	ND (2.0)	ND (8.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.05)	-	-	-	-	-	-	-	-	-	ND (0.48)
		5-Apr-13	N-98_040513		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (0.1)	ND (2)	ND (2)	ND (1)	ND (0.02)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (3)
		4-Jun-14	N-98		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		20-May-15	N-98_20150520		ND (0.5)	ND (0.5)	ND (0.5)	0.7 J	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.32 J
		18-Mar-16	N-98-20160318		ND (1)	ND (5)	ND (1)	ND (3)	ND (1)	-	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (0.01)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)
		24-May-16	N-98-20160524		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.13)
		23-Aug-16	N-98-20160823-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	0.0869	0.0534	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		14-Oct-16	N-98-20161014-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	0.0881	0.0594	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		24-May-17	N-98-20170524		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.090)
		29-Jun-18	N-98_20180629		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		14-Apr-21	N-98_20210414		3.9	0.33 J	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	0.46 J	ND (0.51)	ND (5.0)	0.96 J	ND (1.0)	ND (0.029)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.52)
	N-99	23-Jul-08	N-99_7/23/2008		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (50)	-	-	ND (1)	ND (0.029)	ND (50)	ND (50)	ND (50)	ND (50)	-	-	-	-	-	ND (1)
		17-Nov-09	N-99		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.058)	-	ND (0.038)	ND (0.096)	-	-	-	-	-	ND (0.050)
		10-Nov-10	N-99		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	ND (0.052)
		17-Nov-11	N-99		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.96)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.076)	ND (0.096)	ND (0.076)	ND (0.096)	-	-	-	-	-	ND (0.080)
		5-Apr-13	N-99_040513		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (2.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	0.036 J
		4-Jun-14	N-99		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	2.7 J
		20-May-15	N-99_20150520		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.082)
		26-May-16	N-99-20160526		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0093)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.13)
		23-Aug-16	N-99-20160823-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		14-Oct-16	N-99-20161014-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		24-May-17	N-99-20170524		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	0.3 J	0.3 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.090)
		29-Jun-18	N-99_20180629		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
	N-100	14-Jul-08	N-100_07/14/08		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2)	ND (5)	-	-	ND (1)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		4-Apr-13	N-100_040413		ND (1.0)	0.79 J	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (2.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	0.091 J
		2-Jun-14	N-100		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		19-May-15	N-100_20150519		5	ND (0.5)	4	11	ND (0.5)	-	ND (0.5)	0.7	4	1 J	ND (0.5)	ND (0.0097)	ND (0.1)	0.2 J	0.3 J	0.2 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.46 J
		23-May-16	N-100-20160523		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.13)
		22-Aug-16	N-100-20160822-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		22-Aug-16	N-100-20160822-WG-DUP	Field Duplicate	ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		14-Oct-16	N-100-20161014-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		14-Oct-16	N-100-20161014-WG-DUP	Field Duplicate	ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 8	N-111	24-Jul-08	N-111_7/24/2008		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	8	ND (50)	-	-	ND (1)	ND (0.03)	110	170	380	160	-	-	-	-	-	ND (1)
		11-Nov-09	N-111		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	2	-	4	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	5.5	-	8.6	ND (19)	-	-	-	-	-	ND (0.050)
		10-Nov-10	N-111		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	4	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	1 J	5	2 J	3 J	-	-	-	-	-	0.52 J
		17-Nov-11	N-111		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.8 J	-	4	ND (0.95)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	0.21	4.4	ND (0.55)	ND (2.1)	-	-	-	-	-	ND (0.080)
		4-Apr-13	N-111_040413		ND (1.0)	ND (1.0)	ND (1.0)	0.98 J	0.58 J	-	6.9	ND (0.10)	0.87 J	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	1.89	0.399	0.177	0.240	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	0.083 J
		2-Jun-14	N-111		ND (0.50)	ND (1.0)	ND (1.0)	0.73 J	0.48 J	-	3.2	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	0.546	2.17	ND (0.10)	0.973	0.452	0.332	0.351	0.258	0.332	1.6 J
		20-May-15	N-111_20150520		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	4	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	0.1 J	4	0.2 J	0.4 J	0.4 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.082)
		26-May-16	N-111-20160526		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	1 J	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	0.5 J	3	ND (0.1)	0.9	0.5 J	0.3 J	0.3 J	0.2 J	0.2 J	ND (0.13)
		26-May-16	N-111-20160526-DUP	Field Duplicate	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	2 J	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	0.3 J	3	ND (0.1)	0.8	0.4 J	0.2 J	0.3 J	0.2 J	0.3 J	ND (0.13)
		24-Aug-16	N-111-20160824-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	3.58	0.302	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	0.0666	3.79	ND (0.0500)	0.616	0.636	0.0782	0.0683	ND (0.0500)	ND (0.0500) OE	ND (2.00)
		19-Oct-16	N-111-20161019-WG		ND (1.00)	ND (5.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	3.80	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) *	0.201	3.09	ND (0.0500)	0.880	0.706	0.171	0.150	0.101	0.139	ND (2.00)
		24-May-17	N-111-20170524		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	3	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	ND (0.1)	2	ND (0.1)	0.6	0.3 J	ND (0.1)	0.2 J	0.2 J	0.3 J	ND (0.090)
		2-Jul-18	N-111_20180702		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	4.85	0.278	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	3.65	ND (0.0500)	0.367	0.370	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
	N-112	24-Jul-08	N-112_7/24/2008		ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	22	ND (50)	-	-	ND (1)	ND (0.029)	290	380	1,400	760	-	-	-	-	-	ND (1)
		29-Aug-16	N-112-20160829-WG		140 SL	82.3 SL	43.1 SL	52.6 SL	ND (1.00) SL	-	3.13 SL	66.6 SL	3.23 SL	ND (1.00) SL	ND (1.00) SL	ND (0.0100) SL *	5.56 SL	8.26 SL	13.1 SL	20.2 SL	6.35 SL	4.94 SL	2.76 SL	2.04 SL	2.15 SL	ND (2.00) SL
		14-Oct-16	N-112-20161014-WG		2.32 SL	ND (5.00) SL	5.52 SL	28.4 SL	ND (1.00) SL	-	5.77 SL	6.85 SL	9.19 SL	4.18 SL	ND (1.00) SL	ND (0.0100) SL *	3.95 SL	5.46 SL	9.82 SL	12.9 SL	3.20 SL	2.48 SL	1.06 SL	0.684 SL	0.557 B SL	ND (2.00) SL
		6-Jul-18	N-112_20180706		ND (1.00) SL	ND (1.00) SL	ND (1.00) SL	ND (3.00) SL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		9-Jul-19	N-112_SL_20190709		ND (0.2) SL	ND (0.2) SL	ND (0.2) SL	ND (0.5) SL	ND (0.2) SL	-	2 J SL	ND (0.1) SL	ND (0.3) SL	ND (0.3) SL	ND (2) SL	ND (0.0095) SL	8 SL	9 SL	9 SL	19 SL	5 SL	4 SL	2 SL	1 SL	0.8 SL	ND (1.1) SL
		16-Apr-21	N-112_SL_20210416		ND (5.0) SL	ND (5.0) SL	2.2 J SL	ND (30) SL	ND (5.0) SL	ND (250) SL	1.2 J SL	1.4 SL	ND (25) SL	ND (25) SL	ND (5.0) SL	ND (0.029) SL	ND (0.53) SL	ND (0.53) SL	ND (0.53) SL	0.38 J SL	ND (0.53) SL	ND (0.53) SL	ND (0.53) SL	ND (0.53) SL	ND (0.53) SL	ND (0.52) SL
	N-133	23-Jul-08	N-133_7/23/2008		10,000	ND (10)	11	17	ND (10)	-	ND (20)	31 *	-	-	ND (10)	ND (0.029)	ND (5)	ND (5)	9	6	-	-	-	-	-	ND (1)
		4-Jun-14	N-133		7,100	ND (25)	11.5 J	23.6 J	ND (25)	-	ND (25)	15.8	9.8 J	ND (50)	ND (25)	ND (0.020)	ND (0.10)	0.609	1.27	0.273	0.113	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	5.4
		29-Jun-18	N-133_20180629		11,500	5.41	17.4	35.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		29-Jun-18	N-133_HS_20180629	Hydra Sleeve	11,000	5.43	18.4	38.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		8-Jul-19	N-133_20190708		8,500	3 J	15	30	ND (1)	-	8 J	12	10 J	3 J	ND (10)	ND (0.0095)	ND (0.1)	0.5	0.6	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		14-Apr-21	N-133_20210414		6,900	ND (50)	ND (50)	ND (300)	ND (50)	ND (2,500)	ND (250)	8.3	ND (250)	ND (250)	ND (50)	ND (0.029)	ND (0.50)	ND (0.50)	0.70	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.52)
	N-151	20-Oct-16	N-151-20161020-WG		ND (1.00) SL	6.94 SL	5.16 SL	114 SL	ND (1.00) SL	-	8.82 SL	0.394 SL	22.3 SL	7.37 SL	ND (1.00) SL	ND (0.0100) SL *	0.706 SL	0.539 SL	1.71 SL	1.03 SL	0.372 SL	0.509 SL	0.164 SL	ND (0.0500) SL	0.0804 SL	ND (2.00) SL
		8-Jul-19	N-151_SL_20190708		ND (0.2) SL	0.2 J SL	0.8 J SL	13 SL	ND (0.2) SL	-	5 SL	ND (0.1) SL	1 J SL	ND (0.3) SL	ND (2) SL	ND (0.0094) SL	ND (0.1) SL	0.6 SL	0.4 J SL	0.7 SL	ND (0.1) SL	0.3 J SL	ND (0.1) SL	ND (0.1) SL	ND (0.1) SL	ND (1.1) SL
		14-Apr-21	N-151_SL_20210414		0.25 J SL	0.95 J SL	0.69 J SL	26 SL	ND (1.0) SL	ND (50) SL	3.5 J SL	3.1 SL	8.5 SL	2.4 J SL	ND (1.0) SL	ND (0.029) SL	ND (0.51) SL	0.67 SL	ND (0.51) SL	0.67 SL	ND (0.51) SL	ND (0.51) SL	ND (0.51) SL	ND (0.51) SL	ND (0.51) SL	0.20 J SL
	N-152	14-Apr-21	N-152_20210414		ND (5.0)	ND (5.0)	ND (5.0)	ND (30)	ND (5.0)	ND (250)	ND (25)	ND (0.51)	ND (25)	ND (25)	ND (5.0)	ND (0.029)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	0.12 J
		14-Apr-21	DUP-1_20210414	Field Duplicate	0.78 J	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.51)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	0.11 J
	N-156	19-Oct-16	N-156-20161019-WG		3.51	ND (5.00)	ND (1.00)	4.07	ND (1.00)	-	8.97	9.20	10.3	8.64	ND (1.00)	ND (0.0100) *	0.495	64.8	52.1	3.64	9.52	0.576	0.210	0.227	0.0805	ND (2.00)
		17-Jan-17	N_156_20170117		6.95	ND (1.00)	2.70	11.3	ND (1.00)	-	26.3	29.8 *	29.1	19.5	ND (1.00)	ND (0.0100)	0.283	64.3	82.6	4.14	12.3	0.452	0.0839	0.118	ND (0.0500)	ND (2.00)
		24-May-17	N-156-20170524		8	0.7 J	2	10	ND (0.5)	-	29	13	29	20	ND (0.5)	ND (0.0095)	0.3 J	55	54	3	8	0.3 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.090)
		3-Jul-18	N-156_20180703		5.26	ND (1.00)	1.05	6.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		25-Jun-19	N-156_20190625		3	0.3 J	0.4 J	3 J	ND (0.2)	-	12	0.9	8	6	ND (2)	ND (0.0095)	0.3 J	32	42	3	7	0.3 J	0.1 J	0.2 J	ND (0.1)	ND (1.1)
		14-Apr-21	N-156_20210414		0.35 J	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	15 J	ND (5.0)	0.12 J	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.030)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.52)
	N-157	2-Jul-18	N-157_20180702		262	64.0	28.2	79.6	2.68	-	15.6	35.0	1.17 B	29.7	ND (1.00)	ND (0.0100)	ND (0.0500)	0.258	0.110	ND (0.0500)	0.0732	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		2-Jul-18	N-157_HS_20180702	Hydra Sleeve	383	86.4	37.0	106	4.69	-	19.3	63.3	1.55 B	39.0	1.04	ND (0.0100)	ND (0.0500)	0.358	0.137	ND (0.0500)	0.0711	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		24-Jun-19	N-157_20190624		570	110	63	110	1	-	22	110	0.7 J	23	ND (2)	ND (0.0095)	ND (0.09)	0.3 J	0.2 J	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (1.1)
		15-Apr-21	N-157_20210415		100	6.0	18	28	0.37 J	ND (50)	12	ND (0.51)	5.0	12	ND (1.0)	ND (0.029)	ND (0.51)	0.36 J	0.27 J	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.52)
	N-161	15-Apr-21	N-161_20210415		640	240	360	770	ND (5.0)	ND (250)	47	310	130	300	ND (5.0)	0.044	ND (0.52)	0.54	0.30 J	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)
	N-163	15-Apr-21	N-163_20210415		77	2.0	8.2	6.3	ND (1.0)	ND (50)	27	2.5	1.7 J	4.3 J	ND (1.0)	ND (0.029)	ND (0.51)	0.86	0.62	0.21 J	0.18 J	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.52)
	N-164	16-Apr-21	N-164_SL_20210416		2,700 SL	110 SL	490 SL	580 SL	6.3 SL	ND (250) SL	120 SL	290 SL	380 SL	120 SL	ND (5.0) SL	ND (0.028) SL	0.42 J SL	3.7 SL	6.1 SL	1.5 SL	1.5 SL	0.34 J SL	0.33 J SL	ND (0.50) SL	ND (0.50) SL	ND (0.52) SL
	PGW-MW-6	25-Jun-19	PGW-MW-6_20190625		11	0.3 J	0.3 J	1 J	0.3 J	-	26	1	0.5 J	0.5 J	ND (2)	ND (0.0095)	0.5 J	26	4	3	4	0.4 J	0.4 J	0.4 J	0.3 J	ND (1.1)
		15-Apr-21	PGW-MW-6_20210415		ND (5.0)	ND (5.0)	ND (5.0)	ND (30)	ND (5.0)	ND (250)	ND (25)	0.48 J	ND (25)	ND (25)	ND (5.0)	ND (0.029)	0.21 J	0.23 J	0.18 J	0.47 J	ND (0.55)	0.17 J	0.26 J	0.29 J	0.14 J	ND (0.52)
	PGW-MW-9	21-Oct-16	PGW-MW-9-20161021-WG		21.9 SL	ND (5.00) SL	74.3 SL	32.7 SL	ND (1.00) SL	-	69.1 SL	ND (3.75) SL	28.8 SL	14.1 SL	ND (1.00) SL	ND (0.0100) SL *	ND (0.750) SL	62.7 SL	47.8 SL	21.1 SL	17.7 SL	ND (0.750) SL	1.25 SL	ND (0.750) SL	ND (0.750) SL	ND (2.00) SL
		12-Jul-19	PGW-MW-9_20190712		20	1	82	26	ND (0.2)	-	120	20	39	20	ND (2)	ND (0.0094)	15	71	67	42	23	13	11	9	5	ND (1.1)
		15-Apr-21	PGW-MW-9_20210415		17	1.2	43	13	ND (1.0)	ND (50)	100	1.3	20	11	ND (1.0)	ND (0.029)	16	21	9.1	42	8.2	14	17	12	5.4	ND (0.52)
	PGW-MW-21	21-Oct-16	PGW-MW-21-20161021-WG		9.10	ND (5.00)	6.15	4.94	ND (1.00)	-	16.7	ND (7.50)	2.11	1.74	ND (1.00)	ND (0.0100) *	137	238	309	322	159	168	170	208	95.1	ND (2.00)
		5-Jul-18	PGW-MW-21_HS_20180705	Hydra Sleeve	106	14.8	200	160	ND (1.00)	-	39.7	604	65.5	22.4	ND (1.00)	ND (0.0100)	0.752	106	85.7	6.80	16.6	1.03	0.854	0.906	0.522	ND (2.00)
		5-Jul-18	PGW-MW-21-20180705		77.5	8.66	11.2	103	ND (1.00)	-	2.05	ND (5.00)	49.0	19.3	ND (1.00)	ND (0.0100)	4.00	95.9	15.0	13.7	19.5	4.63	4.66	5.01	2.89	ND (2.00)
		25-Jun-19	PGW-MW-21_20190625		130	17	150	130	ND (0.2)	-	47	640	65	24	ND (2)	ND (0.0094)	2	110	86	9	18	2	2	2	1	ND (1.1)
		15-Apr-21	PGW-MW-21_20210415		90	18	150	170	ND (1.0)	ND (50)	41	1,000	77	29	ND (1.0)	ND (0.029)	1.4	100	87	8.3	17	1.7	1.6	1.4	0.52 J	ND (0.52)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 8	RW-502	26-Aug-16	RW-502-20160826-WG		28.2 SL	ND (5.00) SL	ND (1.00) SL	10.7 SL	ND (1.00) SL	-	40.2 SL	9.83 SL	2.53 SL	1.85 SL	ND (1.00) SL	ND (0.0100) SL *	1.24 SL	5.17 SL	17.5 SL	4.85 SL	2.92 SL	1.31 SL	0.945 SL	0.677 SL	0.557 SL	ND (2.00) SL
		17-Oct-16	RW-502-20161017-WG		48.1 SL	5.71 SL	ND (1.00) SL	12.7 SL	ND (1.00) SL	-	45.6 SL	15.3 SL	2.12 SL	2.32 SL	ND (1.00) SL	ND (0.0100) SL *	0.749 SL	7.10 SL	13.1 SL	3.02 SL	ND (0.0500) SL	0.674 SL	0.427 SL	0.319 SL	0.291 SL	ND (2.00) SL
		6-Jul-18	RW-502_20180706		ND (1.00) SL	ND (1.00) SL	ND (1.00) SL	ND (3.00) SL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2-Jul-19	RW-502-SL_20190702		46 SL	6 J SL	ND (2) SL	14 J SL	ND (2) SL	-	45 J SL	32 SL	ND (3) SL	ND (3) SL	ND (20) SL	ND (0.0094) SL	9 SL	32 SL	61 SL	18 SL	16 SL	6 SL	4 SL	3 SL	2 SL	ND (1.1) SL
		15-Apr-21	RW-502_SL_20210415		59 SL	5.5 SL	1.2 SL	15 SL	0.26 J SL	ND (50) SL	43 SL	22 SL	2.7 J SL	2.3 J SL	ND (1.0) SL	ND (0.029) SL	0.71 SL	6.7 SL	11 SL	1.8 SL	1.8 SL	0.59 SL	0.48 J SL	0.27 J SL	0.18 J SL	ND (0.52) SL
	V-MW-2	26-May-11	MW-2_05-26-2011		1,300	210	270	500	ND (40)	-	55	910	ND (40)	150	ND (20)	ND (0.05)	-	-	-	-	-	-	-	-	-	ND (0.48)
		21-Sep-11	MW-2_09-21-2011		940	170	190	440	32	-	56	660	16	140	ND (2.0)	ND (0.05)	-	-	-	-	-	-	-	-	-	ND (0.48)
		13-Feb-13	MW-2_02-13-2013		1,000	200	280	610	19	-	110	930	23	230	ND (10)	ND (0.029)	10	-	-	40	-	10	5 J	5 J	4 J	31
		4-Apr-13	MW-2_04-04-2013		970	180	310	600	18	-	120	800	20	200	ND (5.0)	ND (0.029)	1 J	-	-	4 J	-	1 J	ND (5.0)	ND (5.0)	ND (5.0)	ND (1.0)
		14-May-13	MW-2_05-14-2013		990	210	310	620	19	-	140	790	22	240	ND (10)	ND (0.029)	19	-	-	120	-	23	7	11	2 J	ND (1.0)
		28-Jun-13	MW-2_06-28-2013		960	180	220	440	15	-	79	590	11	110	ND (3.0)	ND (0.01)	3 J	-	-	9	-	2 J	1 J	1 J	ND (1.0)	ND (0.085)
		7-Aug-13	MW-2_08-07-2013		920	160	230	450	15 J	-	97	680	11 J	130	ND (10)	ND (0.0094)	9 J	-	-	37	-	9 J	6 J	6 J	4 J	ND (0.085)
		18-Sep-13	MW-2_09-18-2013		980	180	300	610	20	-	170	960	18 J	210	ND (5)	ND (0.0098)	9	-	-	28	-	7	3 J	4 J	2 J	ND (0.085)
		5-Nov-13	MW-2_11-05-2013		970	160	210	410	21	-	92	540	10 J	120	ND (5)	ND (0.0094)	8	-	-	23	-	6	4 J	3 J	2 J	0.20 J
		20-Dec-13	MW-2_12-20-2013		980	180	320	640	27	-	180	1,000	20 J	210	ND (10)	ND (0.0098)	17	-	-	55	-	13	7	7	3 J	0.089 J
		17-Apr-14	MW-2_04-17-2014		990	190	290	590	27	-	150	900	18 J	200	ND (5)	ND (0.0096)	15	-	-	48	-	13	7	7	4 J	0.089 J
		24-Jun-14	MW-2_06-24-2014		860	160	160	380	32	-	73	620	10 J	110	ND	ND	ND	-	-	2 J	-	ND	ND	ND	ND	ND
		15-Sep-14	MW-2_09-15-2014		630	140	240	450	23	-	180	590	15 J	170	ND	ND	7	-	-	24.0	-	6	3	3	2	ND
		4-Dec-14	MW-2_12-04-2014		960	190	170	420	16	-	67	570	9 J	97	ND	ND	0.9	-	-	3	-	1	0.4 J	0.4 J	0.2 J	ND
		17-Mar-16	V-MW-2-20160317		72.6	97.8	55.4	118	3.57	-	14.6	106 *	1.46	19.5	ND (1)	ND (0.01)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2)
		9-Jul-19	V-MW-2_20190709		210	94	76	220	3	-	44	71	3 J	33	ND (2)	ND (0.0094)	2	1	2	2	0.4 J	0.7	1	2	2	ND (1.1)
		14-Apr-21	V-MW-2_20210414		36	22	12	44	1.3	ND (50)	16	15	ND (5.0)	7.1	ND (1.0)	0.027 J	0.85	1.3	1.0	1.5	0.36 J	0.43 J	0.71	1.1	0.62	0.15 J
	V-MW-9	15-Apr-21	V-MW-9_20210415		13	4.9	1.7	20	ND (1.0)	ND (50)	25	ND (0.52)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.52)	0.16 J	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)
	V-MW-16	15-Apr-21	V-MW-16_20210415		ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	ND (0.52)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	1.2
AOI 9	MW-1SRTF	9-Nov-15	AOI9_MW-1SRTF_110915		0.74 SL	1.1 SL	ND (1.0) SL	1.4 SL	70.4 SL	-	12.9 SL	293 SL	ND (2.0) SL	ND (2.0) SL	ND (1.0) SL	ND (0.020) SL	0.291 SL	1.49 SL	1.69 SL	0.641 SL	0.293 SL	0.241 SL	0.193 SL	0.252 SL	0.184 SL	24.9 SL
		8-Nov-16	MW-1SRTF-20161108-WG		4,980 SL	333 SL	1,320 SL	6,830 SL	269 SL	-	166 SL	297 SL	2,110 SL	349 SL	ND (1.0) SL	0.28 SL	0.12 SL	0.60 SL	1.2 SL	0.33 SL	0.13 SL	0.084 J SL	0.042 J SL	0.051 J SL	0.036 J SL	14.0 SL
		27-Jun-19	MW-1SRTF-SL_20190627		6,200 SL	730 SL	2,100 SL	9,200 SL	210 SL	850 SL	350 SL	410 SL	1,500 SL	410 SL	ND (40) SL	0.026 J SL	ND (0.1) SL	0.6 SL	0.7 SL	ND (0.1) SL	ND (0.1) SL	ND (0.1) SL	ND (0.1) SL	ND (0.1) SL	ND (0.1) SL	ND (1.1) SL
		11-May-21	MW-1SRTF_SL_20210511		9,800 SL	200 SL	2,100 SL	2,800 SL	350 SL	1,100 SL	460 SL	290 SL	850 SL	290 SL	2.4 J SL	ND (0.028) SL	0.16 J SL	0.51 SL	0.98 SL	0.41 J SL	0.24 J SL	0.13 J SL	0.15 J SL	0.13 J SL	ND (0.50) SL	0.63 SL
	S-74D2SRTF	8-Apr-11	S-74D2SRTF_04082011		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.6 J	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0099)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-
		8-Apr-11	S-74D2SRTF_04082011 FILT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		30-Jun-11	S-74D2SRTF_06302011		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.6 J	-	ND (0.5)	ND (0.9)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	ND (0.9)	ND (0.9)	ND (0.9)	ND (0.9)	-	-	-	-	-	-
		30-Jun-11	S-74D2SRTF_06302011 FILT.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		29-May-12	S-74D2_52912		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.09)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.09)	ND (0.09)	0.1 J	ND (0.09)	-	-	-	-	-	ND (1.0)
		20-Aug-12	S-74D2_082012		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.7 J	-	ND (0.5)	ND (0.09)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (1.0)
		31-Oct-12	S-74D2_103112		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	0.63 J	-	ND (5.0)	ND (0.10)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.015) *	ND (0.10)	ND (0.10)	0.066	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.10)	ND (0.050)	ND (0.10)	ND (5.0)
		28-Mar-13	S-74D2_032813		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	0.66 J	-	ND (2.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	4.2
		12-Mar-15	S-74D2SRTF_031215		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	0.48 J	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020) ED	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		14-Aug-15	S-74D2SRTF-20150814		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	0.37 J	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.019)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.050)	ND (0.10)	ND (0.10)	ND (3.0)
		3-Dec-15	AOI9_S-74D2SRTF_120315		ND (1.0)	ND (1.0)	ND (1.0)	ND (3.0)	0.40 J	-	ND (1.0)	-	ND (1.0)	ND (1.0)	ND (1.0)	-	-	-	-	-	-	-	-	-	-	-
		19-May-17	S-74D2SRTF-20170519		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.090)
	S-78SRTF	12-May-21	S-78SRTF_20210512		2,500	90	70	320	15	1,500	52	4.0	6.9 J	9.2 J	ND (5.0)	ND (0.029)	ND (0.57)	0.68	0.48 J	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	2.4
	S-110DSRTF	12-Aug-15	S-110DSRTF-20150812		0.35 J	ND (1.0)	ND (1.0)	ND (1.0)	31.7	-	ND (1.0)	ND (0.10)	0.34 J	ND (2.0)	5.4	ND (0.021)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.050)	ND (0.10)	ND (0.10)	ND (3.0)
		11-Nov-15	AOI9_S-110DSRTF_111115		0.30 J	ND (1.0)	ND (1.0)	ND (1.0)	43.9	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	5.7	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.050)	ND (0.10)	ND (0.10)	ND (3.0)
		9-Nov-16	S-110DSRTF-20161109-WG		ND (1.0)	ND (1.0)	ND (1.0)	ND (3.0)	47.7	-	ND (1.0)	ND (0.030)	ND (1.0)	ND (1.0)	5.1	ND (0.040) J	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	0.026 J	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (5.0)
		23-May-17	S-110DSRTF-20170523		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	27	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	4	ND (0.0096)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.090)
		3-Jul-18	S-110DSRTF_20180703		4.23	1.73	ND (1.00)	ND (3.00)	33.5	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	3.94	ND (0.0100)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		3-Jul-18	S-110DSRTF_HS_20180703	Hydra Sleeve	ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	31.6	30.1	ND (1.00)	-	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100) HT	-	-	-	-	-	-	-	-	-	-
		26-Jun-19	S-110DSRTF_20190626		0.3 J	ND (0.2)	ND (0.2)	ND (0.5)	35	31	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	3 J	0.031	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		11-May-21	S-110DSRTF_20210511		0.27 J	ND (1.0)	ND (1.0)	ND (6.0)	31	30 J	ND (5.0)	ND (0.55)	ND (5.0)	ND (5.0)	3.6	ND (0.029)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	0.30 J

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 9	S-110SRTF	11-Aug-09	S-110 SRTF		3	2	300	880	ND (1)	-	120	300	970	300	ND (1)	ND (0.03)	ND (50)	ND (50)	ND (50)	ND (50)	-	-	-	-	-	4.5
		10-Mar-15	S-110SRTF_031015		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (0.11)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020) ED	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (3.0)
		14-Aug-15	S-110SRTF-20150814		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	1.0	0.445	ND (2.0)	0.64 J	ND (1.0)	ND (0.019)	0.394	0.453	0.684	0.632	0.383	0.371	0.342	0.381	1.18	ND (3.0)
		5-Nov-15	AOI9_S-110SRTF_110515		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.050)	ND (0.10)	ND (0.10)	ND (3.0)
		6-Dec-17	S-110DSRTF-20171206		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	27	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	5	ND (0.0094)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.11)
		26-Jun-19	S110SRTF_20190626		0.4 J	0.5 J	ND (0.2)	ND (0.5)	ND (0.2)	ND (10)	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
	S-112SRTF	11-Mar-15	S-112SRTF_031115		993	215	256	924	21.7	-	98.4	69.2	258	75.1	ND (5.0)	ND (0.020) ED	ND (0.10)	2.46	1.68	0.0803 J	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		18-Aug-15	S-112SRTF-20150818		785	183	94.5	321	27.4	-	40.3	35.2	107	29.6	ND (5.0)	ND (0.053)	ND (0.10)	1.96	1.09	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.050)	ND (0.10)	ND (0.10)	ND (3.0)
		5-Nov-15	AOI9_S-112SRTF_110515		1,080	337	140	495	31.1	-	51.3	16.8	148	46.6	ND (5.0)	ND (0.020)	ND (0.10)	1.70	1.07	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.050)	ND (0.10)	ND (0.10)	ND (3.0)
		10-Nov-16	S-112SRTF-20161110-WG		8,440	22,500	4,320	14,900	36.7	-	421	163,000	5,160	1,730	ND (10.0)	ND (0.040)	32.1 J	3,920	5,860	331	514	30.1 J	9.7 J	17.0 J	15.1 J	23.9
		18-May-17	S-112SRTF-20170518		820	1,600	410	1,600	23	-	72	46	450	150	ND (3)	ND (0.030)	ND (0.1)	2	1	ND (0.1)	0.2 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	3.4
		8-Dec-17	S-112SRTF-20171208		78	2,400	2,000	12,000	18 J	-	330	8,100	5,200	1,900	ND (10)	0.029	3 J	270	440	22	30	3 J	2 J	2 J	2 J	7.7
		3-Jul-18	S-112SRTF_20180703		170 SL	119 SL	301 SL	1,590 SL	ND (50.0) SL	-	56.4 SL	86.6 OE SL	674 SL	238 SL	ND (50.0) SL	ND (0.0100) SL	ND (0.0500) SL	4.30 SL	3.69 SL	0.211 SL	0.301 SL	ND (0.0500) SL	ND (0.0500) SL	ND (0.0500) SL	ND (0.0500) SL	ND (2.00) SL
		27-Jun-19	S-112SRTF_20190627		980	40	170	460	14	81 J	44	30	280	130	ND (10)	0.015 J	ND (0.09)	3	0.4 J	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	1.7 J
		11-May-21	S-112SRTF_20210511		470	9.0	22	26 J	15	64 J	13 J	4.8	19 J	4.3 J	ND (5.0)	ND (0.029)	0.14 J	3.5	1.1	0.22 J	0.40 J	0.11 J	ND (0.50)	ND (0.50)	ND (0.50)	0.55
	S-113SRTF	11-Aug-09	S-113 SRTF		510	37	890	2,100	5	-	180	180	1,100	370	ND (2)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	19.1
		10-Mar-15	S-113SRTF_031015		137	5.0	94.3	66.6	1.7	-	29.6	4.75	37.3	24.1	ND (1.0)	ND (0.020) ED	ND (0.11)	0.161	0.110	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (3.0)
		11-Aug-15	S-113SRTF-20150811		344	4.0	7.2	4.3	12.1	-	45.9	1.34	0.89 J	1.5 J	ND (1.0)	ND (0.019)	ND (0.10)	0.249	0.161	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.050)	ND (0.10)	ND (0.10)	ND (3.0)
		4-Nov-15	AOI9_S-113SRTF_110415		152	1.6	8.7	2.6	0.85 J	-	15.1	0.636	0.50 J	0.53 J	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.050)	ND (0.10)	ND (0.10)	ND (3.0)
		9-Nov-16	S-113SRTF-20161109-WG		332	17.0	14.5	16.0	6.7	-	90.5	2.0	8.6	4.3	ND (1.0)	0.36	0.019 J	0.20	0.12	0.049 J	0.028 J	0.028 J	0.019 J	0.036 J	0.052 J	ND (5.0)
		9-Nov-16	S-113SRTF-20161109-WG-DUP	Field Duplicate	335	17.0	14.6	11.1	6.7	-	92.1	1.6	3.0	3.5	ND (1.0)	0.41	0.011 J	0.15	0.089 J	0.026 J	0.018 J	ND (0.10)	ND (0.10)	ND (0.10)	0.035 J	ND (5.0)
		18-May-17	S-113SRTF-20170518		94	2	28	13	2	-	16	5	5	10	ND (0.5)	ND (0.0099)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.37 J
		8-Dec-17	S-113SRTF-20171208		230	11	13	9	4	-	53	3	2	5	ND (0.5)	ND (0.0094)	ND (0.1)	0.2 J	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.23 J
		28-Jun-18	S-113SRTF_20180628		145	ND (10.0)	ND (10.0)	ND (30.0)	ND (10.0)	-	19.1	1.39	ND (10.0)	ND (10.0)	ND (10.0)	ND (0.0100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (2.00)
		11-May-21	S-113SRTF_20210511		59	2.8	1.1	ND (6.0)	3.8	ND (50)	30	0.24 J	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	0.12 J
	S-114SRTF	11-Aug-09	S-114 SRTF		3,200	12,000	2,300	19,000	66	-	320	880	6,100	1,900	ND (20)	0.057	ND (5)	ND (5)	6	ND (5)	-	-	-	-	-	13.2
		21-Oct-14	S-114SRTF_20141021		880	2,300	440	4,200	16 J	-	77	170	800	300	ND (10)	ND (0.0094)	ND (0.1)	1	0.9	0.1 J	0.2 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	2.2
		18-Nov-14	S-114SRTF_20141118		1,500	7,700	1,400	14,000	ND (5)	-	100	240	2,100	800	ND (5)	ND (0.0095)	0.2 J	3	4	0.7	0.5	0.1 J	ND (0.1)	0.1 J	0.2 J	8.6
		17-Dec-14	S-114 SRTF_20141217		700	4,900	970	8,400	ND (10)	-	78	270	1,500	580	ND (10)	ND (0.0095)	0.1 J	2	3	0.4 J	0.4 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	4.3
		21-Jan-15	S-114SRTF-20150121		250	490	140	1,000	17	-	37	73	200	74	ND (3)	ND (0.0095)	ND (0.1)	0.8	0.6	ND (0.1)	0.2 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	1.1
		10-Mar-15	S-114SRTF_031015		1,410	6,640	1,640	10,800	4.6 J	-	121	220	1,880	647	ND (10)	ND (0.020) ED	ND (0.10)	1.05	1.06	0.209	0.167	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	3.6
		11-Aug-15	S-114SRTF-20150811		654	2,160	471	3,110	19.1	-	44.4	53.5	539	176	ND (5.0)	ND (0.019)	ND (0.10)	0.344	0.313	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.050)	ND (0.10)	ND (0.10)	ND (3.0)
		6-Nov-15	AOI9_S-114SRTF_110615		487	1,320	352	3,210	19.3	-	45.8	54.0	662	220	ND (5.0)	ND (0.019)	ND (0.10)	0.397	0.324	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.050)	ND (0.10)	ND (0.10)	ND (3.0)
		8-Nov-16	S-114SRTF-20161108-WG		52.7 SL	22.0 SL	7.9 SL	202 SL	21.0 SL	-	18.8 SL	7.0 SL	127 SL	34.5 SL	ND (1.0) SL	ND (0.040) SL	0.035 J SL	0.27 SL	0.31 SL	0.093 J SL	0.062 J SL	0.019 J SL	0.0081 J SL	0.020 J SL	ND (0.10) SL	ND (5.0) SL
		23-May-17	S-114SRTF-20170523		1,800	5,100	1,100	12,000	ND (5)	-	89	380	2,200	790	ND (5)	ND (0.0096)	0.2 J	4	5	0.7	0.7	0.2 J	0.1 J	0.2 J	ND (0.1)	2.2
		28-Jun-18	S-114SRTF_20180628		241	703	131	1,810	15.7	-	22.5	97.0	532	184	ND (10.0)	ND (0.0100)	ND (0.100)	0.432	0.292	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (2.00)
		26-Jun-19	S-114SRTF_20190626		2,000	8,500	1,400	12,000	8 J	ND (200)	110	360	2,000	570	ND (40)	ND (0.025)	ND (0.1)	0.7	0.9	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	4.3
		3-May-21	S-114SRTF_20210503		2,200	7,400	1,000	8,400	5.9 J	ND (500)	89	200	1,100	350	ND (10)	ND (0.029)	ND (0.51)	0.44 J	0.30 J	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	1.7
	S-115DSRTF	12-Aug-15	S-115DSRTF-20150812		0.63	0.21 J	ND (1.0)	0.73 J	59.4	-	0.25 J	ND (0.10)	0.67 J	0.57 J	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.050)	ND (0.10)	ND (0.10)	ND (3.0)
		11-Nov-15	AOI9_S-115DSRTF_111115		0.44 J	ND (1.0)	ND (1.0)	ND (1.0)	59.0	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.019)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.050)	ND (0.10)	ND (0.10)	ND (3.0)
		9-Nov-16	S-115DSRTF-20161109-WG		0.55 J	0.19 J	ND (1.0)	ND (3.0)	61.2	-	ND (1.0)	ND (0.025)	ND (1.0)	ND (1.0)	0.38 J	ND (0.040) J	ND (0.10) J	ND (0.10) J	ND (0.10) J	ND (0.10) J	0.047 J	ND (0.10) J	ND (0.10) J	ND (0.10) J	ND (0.10) J	ND (5.0)
		23-May-17	S-115DSRTF-20170523		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	43	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.010)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.090)
		7-Dec-17	S-115DSRTF-20171207		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	16	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.13 J
		5-Jul-18	S-115DSRTF_20180705		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	36.2	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		5-Jul-18	S-115DSRTF_HS_20180705	Hydra Sleeve	ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	18.3	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		26-Jun-19	S-115DSRTF_20190626		0.3 J	ND (0.2)	ND (0.2)	ND (0.5)	36	21 J	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0094)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		3-May-21	S-115DSRTF_20210503		1.8	4.4	0.58 J	5.2 J	23	ND (50)	ND (5.0)	ND (0.50)	ND (5.0)	0.35 J	0.36 J	ND (0.029)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.52)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 9	S-115SRTF	11-Aug-09	S-115 SRTF		1,800	180	1,300	1,800	ND (20)	-	270	310	1,400	680	ND (20)	ND (0.029)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	10.1
		11-Mar-15	S-115SRTF_031115		421	34.3	71.8	83.9	ND (1.0)	-	38.9	56.2	2.9	79.8	ND (1.0)	ND (0.020) ED	ND (0.10)	0.299	0.194	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		14-Aug-15	S-115SRTF-20150814		1,070	131	159	265	1.9 J	-	172	42.2	1.1 J	98.3	ND (5.0)	ND (0.019)	ND (0.10)	0.363	0.300	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.050)	ND (0.10)	ND (0.10)	2.3 J
		6-Nov-15	AOI9_S-115SRTF_110615		581	64.7	57.5	149	ND (2.0)	-	151	4.70	5.3	57.6	ND (2.0)	ND (0.020)	ND (0.10)	0.392	0.303	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.050)	ND (0.10)	ND (0.10)	2.5 J
		10-Nov-16	S-115SRTF-20161110-WG		644	73.5	50.0	120	3.2	-	153	19.9	1.5	41.2	ND (1.0)	ND (0.040)	ND (0.10)	0.44	0.31	0.033 J	0.029 J	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	4.3 J
		23-May-17	S-115SRTF-20170523		1,000	100	130	150	ND (3)	-	120	25	18	39	ND (3)	ND (0.0095)	ND (0.1)	0.6	0.6	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	3.6
		8-Dec-17	S-115SRTF-20171208		730	68	48	94	ND (3)	-	120	7	ND (3)	25	ND (3)	ND (0.0095)	ND (0.1)	0.5 J	0.2 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	3.3
		28-Jun-18	S-115SRTF_20180628		1,030	118	144	157	ND (50.0)	-	131	25.2	ND (50.0)	ND (50.0)	ND (50.0)	ND (0.0100)	ND (0.100)	0.378	0.195	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	3.84
		26-Jun-19	S-115SRTF_20190626		770	71	49	96	ND (1)	ND (50)	98	12	2 J	34	ND (10)	ND (0.0095)	ND (0.1)	0.5 J	0.3 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	3.8
		11-May-21	S-115SRTF_20210511		1,200	100	140	96	ND (5.0)	ND (250)	120	18	ND (25)	26	2.1 J	ND (0.028)	ND (0.56)	0.35 J	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	3.5
	S-116SRTF	11-Aug-09	S-116 SRTF		31	3	14	9	4	-	10	7	3	12	ND (1)	ND (0.03)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	ND (1)
		11-Mar-15	S-116SRTF_031115		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (0.11)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020) ED	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (3.0)
		14-Aug-15	S-116SRTF-20150814		27.4	12.0	4.7	8.6	44.3	-	70.2	0.591	0.32 J	1.8 J	ND (1.0)	ND (0.019)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.050)	ND (0.10)	ND (0.10)	ND (3.0)
		9-Nov-15	AOI9_S-116SRTF_110915		ND (0.50)	0.37 J	ND (1.0)	0.61 J	0.37 J	-	0.86 J	ND (0.11)	0.26 J	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.056)	ND (0.056)	ND (0.11)	ND (0.11)	ND (3.0)
		11-Nov-16	S-116SRTF-20161111-WG		21.6	3.0	8.1	2.5 J	16.4	-	36.1	2.4	1.4	19.2	ND (1.0)	ND (0.040)	ND (0.10)	0.051 J	0.062 J	0.023 J	0.015 J	0.016 J	ND (0.10)	ND (0.10)	ND (0.10)	ND (5.0)
		18-May-17	S-116SRTF-20170518		ND (0.5)	0.5 J	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	0.2 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.29 J
		8-Dec-17	S-116SRTF-20171208		34	5	21	6	12	-	46	6	ND (0.5)	40	ND (0.5)	ND (0.0094)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.11)
		28-Jun-18	S-116SRTF_20180628		48.3	ND (10.0)	ND (10.0)	ND (30.0)	16.1	-	53.6	0.729	ND (10.0)	ND (10.0)	ND (10.0)	ND (0.0100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (2.00)
	S-118DSRTF	12-Aug-15	S-118DSRTF-20150812		ND (0.50)	ND (1.0)	ND (1.0)	ND (1.0)	3.9	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.050)	ND (0.10)	ND (0.10)	ND (3.0)
		11-Nov-15	AOI9_S-118DSRTF_111115		0.65	0.27 J	ND (1.0)	ND (1.0)	189	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.050)	ND (0.10)	ND (0.10)	ND (3.0)
		9-Nov-16	S-118DSRTF-20161109-WG		0.80 J	0.25 J	ND (1.0)	ND (3.0)	210	-	0.49 J	ND (0.048)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.040) J	ND (0.10)	0.025 J	0.026 J	ND (0.10)	0.089 J	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (5.0)
		7-Dec-17	S-118DSRTF-20171207		0.8 J	ND (0.5)	ND (0.5)	ND (0.5)	190	-	ND (0.5)	0.3 J	ND (0.5)	ND (0.5)	0.6 J	ND (0.0094)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.11)
		5-Jul-18	S-118DSRTF_20180705		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	134	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		5-Jul-18	S-118DSRTF_HS_20180705	Hydra Sleeve	ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		26-Jun-19	S-118DSRTF_20190626		0.6 J	ND (0.2)	ND (0.2)	ND (0.5)	110	42	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		3-May-21	S-118DSTRF_20210503		0.70 J	1.7	ND (1.0)	2.4 J	81	25 J	0.28 J	ND (0.50)	ND (5.0)	ND (5.0)	0.31 J	ND (0.029)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.52)
	S-120DSRTF	8-Apr-11	S-120DSRTF_04082011		0.7 J	2	ND (0.5)	1	37	-	6	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-
		8-Apr-11	S-120DSRTF_04082011 FILT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		30-Jun-11	S-120DSRTF_06302011		0.6 J	0.7 J	ND (0.5)	0.6 J	30	-	4	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-
		30-Jun-11	S-120DSRTF_06302011 FILT.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		29-May-12	S-120D_52912		ND (0.5)	0.5 J	ND (0.5)	0.7 J	36	-	6	ND (0.09)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.09)	0.1 J	0.3 J	ND (0.09)	-	-	-	-	-	-	ND (1.0)
		20-Aug-12	S-120D_082012		ND (0.5)	0.7 J	ND (0.5)	1	39	-	6	ND (0.09)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.09)	ND (0.09)	0.3 J	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (1.0)
		1-Nov-12	S-120D_11112		0.57	0.73 J	ND (1.0)	ND (1.0)	42.9	-	11.1	0.11	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.015) *	ND (0.10)	ND (0.10)	0.15	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.10)	ND (0.050)	ND (0.10)	ND (5.0)
		28-Mar-13	S-120D_32813		0.87 J	1.1	0.36 J	1.9	47.1	-	24.6	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	0.314	0.280	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	1.8 J
		13-Mar-15	S-120DSRTF_031315		0.65	0.94 J	ND (1.0)	0.88 J	76.1	-	12.4	ND (0.10)	ND (2.0)	0.24 J	ND (1.0)	ND (0.020) ED	ND (0.10)	0.343	0.200	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		13-Aug-15	S-120DSRTF-20150813		0.57	0.80 J	ND (1.0)	0.69 J	64.3	-	8.8	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.019)	ND (0.10)	0.169	0.132	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.050)	ND (0.10)	ND (0.10)	ND (3.0)
		10-Nov-15	AOI9_S-120DSRTF_111015		ND (0.50)	ND (1.0)	ND (1.0)	0.43 J	ND (1.0)	-	ND (1.0)	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.021)	ND (0.10)	0.237	0.170	ND (0.10)	ND (0.10)	ND (0.050)	ND (0.050)	ND (0.10)	ND (0.10)	ND (3.0)
		9-Nov-16	S-120DSRTF-20161109-WG		0.42 J	0.84 J	ND (1.0)	0.78 J	60.1	-	10.6	0.62	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.040) J	ND (0.10)	0.15	0.20	0.019 J	0.047 J	0.016 J	ND (0.10)	ND (0.10)	ND (0.10)	ND (5.0)
		18-May-17	S-120DSRTF-20170518		ND (0.5)	0.7 J	ND (0.5)	0.5 J	45	-	8	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0099)	ND (0.1)	ND (0.1)	0.2 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.090)
		5-Jul-18	S-120DSRTF_20180705		1.31	ND (1.00)	ND (1.00)	ND (3.00)	44.4	-	6.82	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	0.0579	0.220	ND (0.0500)	0.110	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
	S-122SRTF	13-Aug-09	S-122 SRTF		1,800	51	56	49	140	-	240	310	19	290	ND (5)	ND (0.029)	ND (5)	21	47	14	-	-	-	-	-	8.5
		10-Mar-15	S-122SRTF_031015		120	39.0	27.2	30.8	39.5	-	171	27.2	5.0	119	ND (1.0)	ND (0.020) ED	0.442	6.07	7.47	1.36	1.06	0.395	0.204	0.237	0.110	12.8
		18-Aug-15	S-122SRTF-20150818		64.9	31.9	11.7	18.4	41.8	-	166	4.52	1.4 J	38.4	ND (1.0)	ND (0.024)	0.152	4.94	4.80	0.546	0.627	0.156	0.0811	ND (0.10)	ND (0.10)	6.2
		5-Nov-15	AOI9_S-122SRTF_110515		49.9	28.3	8.9	19.1	57.6	-	162	ND (0.10)	1.2 J	23.0	ND (1.0)	ND (0.020)	0.330	8.18	11.2	1.42	1.13	0.386	0.210	0.252	0.136	3.3
		8-Nov-16	S-122SRTF-20161108-WG		214 SL	603 SL	47.8 SL	278 SL	64.7 SL	-	164 SL	3.1 SL	45.9 SL	17.3 SL	ND (1.0) SL	ND (0.040) SL	0.076 J SL	3.6 SL	3.9 SL	0.33 SL	0.44 SL	0.071 J SL	0.034 J SL	0.038 J SL	0.051 J SL	ND (5.0) SL
		18-May-17	S-122SRTF-20170518		170	100	34	290	58	-	180	9	40	27	ND (0.5)	ND (0.0097)	0.2 J	5	5	0.7	0.8	0.2 J	0.1 J	0.1 J	ND (0.1)	7.6
		14-May-21	S-122SRTF_SL_20210514		9,800 SL	7,100 SL	1,300 SL	7,300 SL	22 SL	320 SL	220 J SL	57 B SL	520 SL	160 SL	ND (1.0) SL	ND (0.028) SL	ND (0.53) SL	2.4 SL	2.0 SL	0.34 J SL	0.33 J SL	ND (0.53) SL	ND (0.53) SL	ND (0.53) SL	ND (0.53) SL	3.6 SL
	S-137SRTF	10-Nov-16	S-137SRTF-20161110-WG		ND (1.0)	ND (1.0)	ND (1.0)	ND (3.0)	0.18 J	-	ND (1.0)	0.087 J	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.040)	ND (0.10)	ND (0.10)	0.041 J	0.029 J	ND (0.10)	0.015 J	ND (0.10)	ND (0.10)	ND (0.10)	ND (5.0)
		19-May-17	S-137SRTF-20170519		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	ND (0.1)	ND (0.1)	0.3 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.090)
		6-Dec-17	S-137SRTF-20171206		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	0.2 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.11)
		3-Jul-18	S-137SRTF_20180703		5.23	1.98	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	ND (0.0500)	ND (0.0500)	0.233	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 9	S-139SRTF	10-Nov-16	S-139SRTF-20161110-WG		5.6	16.3	9.1	34.1	27.6	-	1.8	4.7	17.1	5.5	ND (1.0)	ND (0.040)	ND (0.10)	0.13	1.3	0.37	0.15	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (5.0)
		19-May-17	S-139SRTF-20170519		ND (0.5)	0.9 J	ND (0.5)	2	21	-	ND (0.5)	ND (0.1)	0.8 J	ND (0.5)	ND (0.5)	ND (0.010)	ND (0.1)	ND (0.1)	1	0.3 J	0.2 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.090)
		7-Dec-17	S-139SRTF-20171207		ND (0.5)	0.8 J	ND (0.5)	0.9 J	18	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0094)	ND (0.1)	ND (0.1)	1	0.5 J	0.2 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.11)
		2-Jul-18	S-139SRTF_20180702		47.8	21.8	ND (1.00)	3.05	21.2	-	ND (1.00)	0.762	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	ND (0.0500)	1.50	0.458	0.274	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		27-Jun-19	S-139SRTF_20190627		3	1	ND (0.2)	8	27	200	ND (0.3)	ND (0.09)	1 J	1 J	ND (2)	ND (0.0094)	ND (0.09)	ND (0.09)	1	0.5	0.2 J	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (1.1)
		11-May-21	S-139SRTF_20210511		1.1	0.75 J	ND (1.0)	2.7 J	37	270	ND (5.0)	ND (0.54)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.028)	ND (0.54)	ND (0.54)	0.88	0.39 J	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	0.30 J
	S-142SRTF	10-Nov-16	S-142SRTF-20161110-WG		ND (1.0)	ND (1.0)	ND (1.0)	ND (3.0)	36.4	-	ND (1.0)	0.38	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.040)	ND (0.10)	ND (0.10)	ND (0.10)	0.023 J	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (5.0)
		10-Nov-16	S-142SRTF-20161110-WG-DUP	Field Duplicate	ND (1.0)	ND (1.0)	ND (1.0)	ND (3.0)	62.7	-	ND (1.0)	0.17	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.040)	ND (0.10)	ND (0.10)	ND (0.10)	0.022 J	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (5.0)
		18-May-17	S-142SRTF-20170518		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	250	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.24 J
		7-Dec-17	S-142SRTF-20171207		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	200	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0094)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.11)
		3-Jul-18	S-142SRTF_20180703		2.45	1.15	ND (1.00)	ND (3.00)	150	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		25-Jun-19	S-142SRTF_20190625		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	160	26	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		12-May-21	S-142SRTF_20210512		1.6	ND (1.0)	ND (1.0)	ND (6.0)	100	29 J	ND (5.0)	ND (0.59)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.028)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.52)
	S-143SRTF	8-Nov-16	S-143SRTF-20161108-WG		ND (1.0)	0.13 J	ND (1.0)	ND (3.0)	249	-	ND (1.0)	ND (0.071)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.040) J	ND (0.10)	0.020 J	0.038 J	0.021 J	0.026 J	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (5.0)
		7-Dec-17	S-143SRTF-20171207		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	100	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0094)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.11)
		21-Jun-18	S-143SRTF_20180621		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	172	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		21-Jun-18	S-143SRTF_HS_20180621	Hydra Sleeve	ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	149	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		25-Jun-19	S-143SRTF_20190625		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	0.3 J	ND (10)	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		11-May-21	S-143SRTF_20210511		0.26 J	ND (1.0)	ND (1.0)	ND (6.0)	74	ND (50)	ND (5.0)	ND (0.56)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.52)
	S-144SRTF	9-Nov-16	S-144SRTF-20161109-WG		ND (1.0)	ND (1.0)	ND (1.0)	0.61 J	106	-	ND (1.0)	ND (0.073)	2.2	0.56 J	0.36 J	ND (0.040) J	ND (0.10)	0.11	0.26	0.12	0.029 J	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (5.0)
		18-May-17	S-144SRTF-20170518		ND (0.5)	ND (0.5)	ND (0.5)	0.6 J	69	-	ND (0.5)	ND (0.1)	0.6 J	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.1)	ND (0.1)	ND (0.1)	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.090)
		7-Dec-17	S-144SRTF-20171207		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	34	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0094)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.11)
		26-Jun-19	S-144SRTF_20190626		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	68	45	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
	S-145SRTF	9-Nov-16	S-145SRTF-20161109-WG		300	38.4	291	1,150	32.5	-	59.4	41.4	568	201	ND (1.0)	ND (0.040)	ND (0.10)	0.74	0.83	0.045 J	0.14	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (5.0)
		18-May-17	S-145SRTF-20170518		80	4	22	52	45	-	9	4	68	23	ND (0.5)	ND (0.0097)	ND (0.1)	0.4 J	0.2 J	ND (0.1)	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.21 J
		8-Dec-17	S-145SRTF-20171208		4	ND (0.5)	0.8 J	2	4	-	ND (0.5)	ND (0.1)	1 J	11	ND (0.5)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	2.1
	S-146SRTF	19-Nov-18	S-146-SRTF-20181119-WG		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	5.33	ND (5.00)	ND (1.00)	ND (5.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	-	-	-	-	-	-	-	-	-	ND (2.00)
		5-Feb-19	S-146-SRTF-20190205-WG		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	6.61	6.32	ND (1.00)	ND (5.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	-	-	-	-	-	-	-	-	-	-
		25-Jun-19	S-146SRTF_20190625		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	6	ND (10)	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		12-May-21	S-146SRTF_20210512		0.46 J	ND (1.0)	ND (1.0)	ND (6.0)	3.6	ND (50)	ND (5.0)	ND (0.57)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.52)
	S-147SRTF	19-Nov-18	S-147-SRTF-20181119-WG		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	5.25	ND (5.00)	ND (1.00)	ND (5.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	-	-	-	-	-	-	-	-	-	ND (2.00)
		5-Feb-19	S-147-SRTF-20190205-WG		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	5.14	ND (5.00)	ND (1.00)	ND (5.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	-	-	-	-	-	-	-	-	-	-
		25-Jun-19	S-147SRTF_20190625		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	4	ND (10)	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0096)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		12-May-21	S-147SRTF_20210512		0.28 J	ND (1.0)	ND (1.0)	ND (6.0)	2.8	ND (50)	ND (5.0)	ND (0.57)	ND (5.0)	ND (5.0)	0.74 J	ND (0.028)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	0.29 J
	S-148SRTF	19-Nov-18	S-148-SRTF-20181119-WG		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	5.42	ND (5.00)	ND (1.00)	ND (5.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	-	-	-	-	-	-	-	-	-	ND (2.00)
		5-Feb-19	S-148-SRTF-20190205-WG		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	6.77	ND (5.00)	ND (1.00)	ND (5.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	-	-	-	-	-	-	-	-	-	-
		27-Jun-19	S-148SRTF_20190627		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	6	ND (10)	ND (0.3)	ND (0.09)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (1.1)
		13-May-21	S-148SRTF_20210513		ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	2.7	ND (50)	ND (5.0)	ND (0.58)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.028)	ND (0.58)	ND (0.58)	ND (0.58)	0.14 J	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	0.19 J
	S-149SRTF	19-Nov-18	S-149-SRTF-20181119-WG		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	7.08	ND (5.00)	ND (1.00)	ND (5.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	-	-	-	-	-	-	-	-	-	ND (2.00)
		5-Feb-19	S-149-SRTF-20190205-WG		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	5.94	6.77	ND (1.00)	ND (5.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	-	-	-	-	-	-	-	-	-	-
		25-Jun-19	S-149SRTF_20190625		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	5	ND (10)	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		13-May-21	S-149SRTF_20210513		0.29 J	ND (1.0)	ND (1.0)	ND (6.0)	3.8	ND (50)	ND (5.0)	0.13 J	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.028)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	0.21 J
	S-150SRTF	19-Nov-18	S-150-SRTF-20181119-WG		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	89.4	ND (5.00)	ND (1.00)	ND (5.00)	ND (1.00)	ND (1.00)	1.00	ND (0.0100)	-	-	-	-	-	-	-	-	-	ND (2.00)
		5-Feb-19	S-150-SRTF-20190205-WG		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	13.6	ND (5.00)	ND (1.00)	ND (5.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	-	-	-	-	-	-	-	-	-	-
		25-Jun-19	S-150SRTF_20190625		0.3 J	ND (0.2)	ND (0.2)	ND (0.5)	93	ND (10)	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0094)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		25-Jun-19	DUP-3_20190625	Field Duplicate	0.4 J	ND (0.2)	ND (0.2)	ND (0.5)	92	ND (10)	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0094)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		13-May-21	S-150SRTF_20210513		0.92 J	ND (1.0)	ND (1.0)	ND (6.0)	85	130	ND (5.0)	0.12 J	ND (5.0)	ND (5.0)	1.1	ND (0.028)	ND (0.55)	ND (0.55)	ND (0.55)	0.12 J	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	0.38 J

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AOI 10	W-1	8-Sep-10	W-1_090810		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	2	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	50	29	36	93	-	-	-	-	-	ND (0.052)
		27-Apr-11	W-1_04272011		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	2	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	20	13	13	37	-	-	-	-	-	ND (0.052)
		1-Jul-19	W-1_20190701		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	0.5 J	-	0.4 J	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.1)	3	2	0.9	0.8	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		3-May-21	W-1_SL_20210503		ND (1.0) SL	ND (1.0) SL	ND (1.0) SL	ND (6.0) SL	0.39 J SL	ND (50) SL	0.38 J SL	ND (0.50) SL	ND (5.0) SL	ND (5.0) SL	ND (1.0) SL	ND (0.029) SL	0.27 J SL	0.82 SL	0.27 J SL	0.62 SL	0.21 J SL	0.15 J SL	ND (0.50) SL	ND (0.50) SL	ND (0.50) SL	ND (0.52) SL
	W-12	26-Oct-04	W-12		40	6.9	34	93	ND (5.0)	-	15	24	-	-	ND (5.0)	ND (0.020)	1.2 J	ND (10)	ND (10)	ND (10)	-	-	-	-	-	ND (5.0)
		9-Sep-10	W-12_090910		3	0.6 J	0.6 J	3	ND (0.5)	-	2	ND (0.9)	1 J	ND (0.5)	ND (0.5)	ND (0.0097)	7	4 J	1 J	7	-	-	-	-	-	0.12 J
		26-Apr-11	W-12_04262011		8	1	3	10	ND (0.5)	-	2	1 J	4	0.6 J	ND (0.5)	ND (0.0095)	1 J	1 J	ND (1)	2 J	-	-	-	-	-	0.18 J
		14-Jun-17	W-12-20170614-WG		ND (1.00)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.321	-	-	-
		1-Jul-19	W-12_20190701		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	ND (0.2)	-	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0094)	ND (0.1)	0.2 J	ND (0.1)	0.3 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		3-May-21	W-12_SL_20210503		ND (1.0) SL	ND (1.0) SL	ND (1.0) SL	ND (6.0) SL	ND (1.0) SL	ND (50) SL	ND (5.0) SL	ND (0.51) SL	ND (5.0) SL	ND (5.0) SL	ND (1.0) SL	ND (0.029) SL	ND (0.51) SL	ND (0.51) SL	ND (0.51) SL	ND (0.51) SL	ND (0.51) SL	ND (0.51) SL	ND (0.51) SL	ND (0.51) SL	ND (0.51) SL	0.30 J SL
	W-13	9-Sep-10	W-13_090910		0.5 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	ND (0.052)
		11-Apr-11	W-13_04112011		ND (0.5)	0.6 J	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-
		11-Apr-11	W-13_04112011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		26-Apr-11	W-13_04262011		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	ND (0.052)
		30-Jun-11	W-13_06302011		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-
		30-Jun-11	W-13_06302011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		1-Jul-19	W-13_20190701		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	0.5 J	-	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0094)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		3-May-21	W-13_20210503		ND (1.0)	ND (1.0)	ND (1.0)	ND (6.0)	0.49 J	18 J	ND (5.0)	ND (0.50)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.52)
	W-32	27-Apr-11	W-32_04272011		56	1	1	4	ND (0.5)	-	8	24	6	1 J	2	ND (0.0094)	4 J	12	13	6	-	-	-	-	-	0.37 J
		1-Jul-19	W-32-SL_20190701		11 J SL	ND (4) SL	ND (4) SL	ND (10) SL	ND (4) SL	-	ND (6) SL	ND (1) SL	ND (6) SL	ND (6) SL	ND (40) SL	ND (0.047) SL	ND (1) SL	15 SL	16 SL	12 SL	ND (1) SL	ND (1) SL	ND (1) SL	ND (1) SL	ND (1) SL	ND (1.1) SL
		4-May-21	W-32_SL_20210504		4.2 SL	0.24 J SL	ND (1.0) SL	ND (6.0) SL	ND (1.0) SL	19 J SL	1.4 J SL	ND (0.50) SL	1.8 J SL	ND (5.0) SL	ND (1.0) SL	ND (0.028) SL	ND (0.50) SL	2.6 SL	1.1 SL	0.72 SL	0.68 SL	ND (0.50) SL	0.48 J SL	0.22 J SL	0.31 J SL	0.65 SL
	W-32D	27-Apr-11	W-32D_04272011		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (10)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0094)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	ND (0.052)
		30-Jun-11	W-32D_06302011		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	ND (1)	1 J	2 J	ND (1)	-	-	-	-	-	-
		30-Jun-11	W-32D_06302011 FILTERED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
		1-Jul-19	W-32D_20190701		ND (1)	ND (1)	ND (1)	ND (3)	ND (1)	-	ND (2)	ND (0.1)	ND (2)	ND (2)	ND (10)	ND (0.0095)	ND (0.1)	0.3 J	0.7	0.9	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		3-May-21	W-32D_20210503		1.0	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	66	ND (5.0)	ND (0.53)	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	0.48 J	0.50 J	0.27 J	1.1	0.28 J	0.36 J	0.38 J	ND (0.53)	ND (0.53)	ND (0.52)
	W-33	27-Apr-11	W-33_04272011		250	60	13	70	ND (5)	-	ND (5)	330	36	11 J	ND (5)	ND (0.0094)	6	36	66	16	-	-	-	-	-	0.068 J
		1-Jul-19	W-33_20190701		36	1	3	15	ND (0.2)	-	3 J	25	12	3 J	ND (2)	ND (0.0095)	ND (0.1)	10	11	2	3	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		4-May-21	W-33_20210504		9.4	1.3	0.86 J	3.6 J	ND (1.0)	ND (50)	0.69 J	1.1	1.3 J	0.33 J	ND (1.0)	ND (0.029)	ND (0.50)	1.7	ND (0.50)	0.48 J	0.34 J	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	0.48 J

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
BELMONT	MW-30	15-Oct-04	MW-30		490	3.0	24	18	ND (1.8)	-	6.0	64	-	-	7.3	ND (0.020)	ND (0.14)	ND (10)	ND (10)	ND (10)	-	ND (10)	ND (10)	ND (10)	-	ND (5.0)
		27-Apr-05	MW30-042705		960	37	430	870	ND (5)	-	61	3,000	-	-	ND (5)	ND (0.029)	ND (96)	ND (96)	ND (96)	ND (96)	-	-	-	-	-	-
		18-Nov-09	MW-30		300	5 J	24	15	ND (3)	-	9 J	180	8 J	3 J	ND (3)	ND (0.010)	48	-	93	110	-	-	-	-	-	0.17 J
		10-Nov-10	MW-30		22	ND (3)	3 J	ND (3)	ND (3)	-	ND (3)	110	ND (3)	ND (3)	ND (3)	ND (0.0096)	70	13 J	52	90	-	-	-	-	-	0.30 J
		14-Apr-11	MW-30		100	ND (0.7)	4 J	5	ND (0.5)	-	3 J	-	-	-	ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-
		6-Jun-11	MW-30		210	4 J	11	21	ND (0.5)	-	6	70	11	4 J	ND (1)	ND (1)	ND (200)	15	35	23	-	-	-	-	-	ND (0.08)
		29-Nov-11	MW-30		110	0.9 J	3	5	ND (0.5)	-	3	89	2	0.7 J	ND (0.5)	ND (0.0098)	ND (70)	11	43	66	-	-	-	-	-	0.61 J
		12-Jul-12	MW30_071212		41	1	2	5	ND (0.5)	-	3	55	2	0.6 J	ND (0.5)	ND (0.0096)	10	19	29	21	7	6	6	10	5	0.32 J
		3-Apr-13	MW-30		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1)
		3-Apr-13	MW-30_040313		36.3	1.3	0.40 J	2.9	ND (1.0)	-	3.2	21.9	1.8 J	ND (2.0)	ND (1.0)	ND (0.020)	5.41	3.48	8.55	8.61	ND (1.0)	2.36	3.76	7.02	4.11	-
		28-May-14	MW-30		21.5	3.6	ND (1.0)	3.0	ND (1.0)	-	2.7	6.32	1.5 J	0.41 J	ND (1.0)	ND (0.020)	12.2	1.15	10.4	20.7	0.794	5.38	8.87	16.2	8.02	ND (3.0)
		10-Dec-14	MW-30-20141210		16.9	3.0	ND (1.0)	3.0	ND (1.0)	-	2.4	6.55	1.5 J	0.46 J	ND (1.0)	ND (0.020)	13.7	2.34	13.5	24.0	1.29	6.12	9.84	14.3	9.63	2.3 J
		19-May-15	MW-30_20150519		27	2	ND (1)	5	ND (1)	-	3 J	11	2 J	ND (1)	ND (1)	ND (0.0096)	30	2	17	32	0.9	10	17	31	16	0.095 J
		16-May-16	MW-30-20160516		61	2	ND (0.5)	2	ND (0.5)	-	1 J	14	1 J	ND (0.5)	ND (0.5)	0.022 J	48	6	34	57	2	21	30	56	28	ND (0.13)
		16-May-17	MW-30-20170516		12	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (5)	4	ND (5)	ND (5)	ND (5)	ND (0.0096)	10	0.8	7	13	0.5	4	7	12	7	ND (0.090)
		31-Jul-18	MW-30-20180731		50.7	2.80	2.38	5.96	ND (1.00)	1,440	4.35	15.9	4.74	1.69	ND (1.00)	ND (0.0100)	19.3	6.71	23.8	25.1	4.11	7.50	12.9	30.1	16.1	ND (2.00)
	MW-32	26-Apr-05	MW32-042605		420	4,600	1,100	6,200	ND (250)	-	ND (250)	120	-	-	ND (250)	ND (0.029)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	-
		10-Nov-05	MW-32_11_10_2005		801	2,430 D	3,160 D	13,100 D	285	-	-	436	-	-	ND (10)	ND (0.02)	9.4	2.1	17	20.7	-	14.2	7.9	21.5	5.1	-
		14-Apr-11	MW-32		7 J	ND (4)	240	890	5 J	-	26	-	-	-	ND (5)	ND (5)	-	-	-	-	-	-	-	-	-	-
		8-Jun-11	MW-32		23	13	670	2,500	19	-	53	180	1,400	510	ND (2)	ND (2)	4.2	3.3 J	6.0	6.1 J	-	-	-	-	-	2.4
		18-Jul-12	MW32_071812		13	3 J	190	560	18	-	19	81	570	210	ND (3)	ND (0.0099)	15	6	14	18	3	6	10	24	16	0.68 J
		28-May-14	MW-32		7.6	0.79 J	34.2	89.1	7.5	-	6.4	12.6	91.0	36.6	ND (1.0)	ND (0.020)	2.89	0.984	3.00	3.84	0.373	1.22	1.71	4.00	1.93	ND (3.0)
		10-Dec-14	MW-32-20141210		7.5	0.64 J	52.6	138	5.8	-	11.3	27.8	178	72.7	ND (1.0)	ND (0.020)	7.18	4.31	8.68	10.3	1.77	5.01	5.49	8.72	7.71	2.6 J
		30-Jul-18	MW-32_20180730		19.2	3.37	196	351	114	4,000	20.9	29.0	372	133	ND (1.00)	ND (0.0100)	2.66	0.367	1.71	3.34	0.306	1.10	1.98	4.29	2.40	ND (2.00)
	MW-33	6-Nov-08	MW-33_110608		19	ND (0.5)	ND (0.5)	0.8 J	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	63	-	49	79	-	-	-	-	-	0.097 J
		14-Apr-11	MW-33		2 J	ND (0.7)	ND (0.8)	ND (0.8)	ND (0.5)	-	ND (1)	-	-	-	ND (1)	ND (1)	-	-	-	-	-	-	-	-	-	-
		6-Jun-11	MW-33		94	6	4 J	26	0.5 J	-	1 J	3,400	13	9	ND (1)	ND (1)	ND (24,000)	790	3,600	ND (5,100)	-	-	-	-	-	0.59 J
		12-Jul-12	MW33_071212		1,800	9	22	4 J	ND (3)	-	ND (3)	ND (1)	ND (3)	ND (3)	ND (3)	ND (0.0096)	6	2 J	5	12	2 J	3 J	5	9	5 J	1.1
		30-May-14	MW-33		24.5	0.32 J	ND (1.0)	0.35 J	ND (1.0)	-	0.33 J	1.70	0.49 J	ND (2.0)	ND (1.0)	ND (0.020)	0.400	0.684	0.262	0.521	ND (0.10)	0.148	0.321	0.583	0.373	3.2
		10-Dec-14	MW-33-20141210		3.9	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.0)	0.111	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	5.28	0.243	3.03	6.33	0.424	2.47	4.41	5.58	4.51	ND (3.0)
		31-Jul-18	MW-33-20180731		97.2	ND (1.00)	ND (1.00)	ND (3.00)	ND (1.00)	62.3	ND (1.00)	ND (5.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0101)	41.9	ND (1.00)	12.5	45.1	2.21	23.8	34.8	58.4	36.7	ND (2.00)
	MW-36	25-Apr-05	MW36-042505		150,000	ND (5,000)	ND (5,000)	ND (5,000)	ND (5,000)	-	ND (5,000)	5,800	-	-	ND (5,000)	ND (0.029)	ND (10)	23	25	ND (10)	-	-	-	-	-	-
		17-Jul-12	MW36_071712		170,000	2,500	1,000	4,100	ND (250)	-	ND (250)	6,100	510 J	ND (250)	1,100	ND (0.0097)	4 J	38	49	10	11	3 J	2 J	2 J	ND (1)	0.64 J
		30-May-14	MW-36		309,000	4,420	888	3,090	114	-	70.4	3,230	538	159	ND (10)	ND (0.020)	0.447	20.8	18.1	1.51	2.32	0.396	0.252	0.297	0.132	2.9 J
		17-Dec-14	MW-36-20141217		233,000	4,030	1,160	4,190	138 J	-	67.6 J	1,920	515	156 J	ND (200)	ND (0.020)	0.182	5.50	6.29	0.862	1.26	0.184	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		3-Aug-18	MW-36_20180803		313,000	6,650	ND (5,000)	3,250	ND (1,000)	ND (5,000)	ND (1,000)	3,230	ND (5,000)	ND (1,000)	ND (1,000)	ND (0.0100)	ND (0.250)	16.8	12.6	1.11	2.23	ND (0.250)	ND (0.250)	ND (0.250)	ND (0.250)	2.25 B
		16-Jul-19	MW-36_20190716		60,000	1,600	440	1,600	ND (20)	ND (1,000)	39 J	1,500	210 J	74 J	ND (200)	ND (0.0095)	0.5 J	11	11	1	2	0.3 J	0.2 J	0.3 J	0.1 J	ND (1.1)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
BELMONT	MW-37	26-Apr-05	MW37-042605		370,000	31,000	12,000	41,000	ND (10,000)	-	ND (10,000)	25	-	-	ND (10,000)	ND (0.029)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	-
		18-Dec-07	MW-37		15,000	300	37	130	-	-	97	63 J	-	-	ND (10)	ND (0.0094)	ND (1.0)	2.0 J	3.0 J	2.0 J	-	-	-	-	-	0.051 J
		7-Nov-08	MW-37_110708		130,000	640	ND (250)	ND (250)	ND (250)	-	ND (250)	ND (500)	ND (250)	ND (250)	ND (250)	ND (0.0098)	ND (1)	-	2 J	1 J	-	-	-	-	-	ND (0.050)
		18-Nov-09	MW-37		79,000	800	44 J	150	ND (25)	-	120	ND (50)	ND (25)	ND (25)	ND (25)	ND (0.0098)	ND (0.25)	-	1.6	0.60 J	-	-	-	-	-	0.052 J
		10-Nov-10	MW-37		29,000	390	ND (25)	31 J	ND (25)	-	67 J	3 J	ND (25)	ND (25)	ND (25)	ND (0.0095)	ND (1)	1 J	ND (1)	1 J	-	-	-	-	-	ND (0.052)
		29-Nov-11	MW-37		130,000	1,400	32 J	120	ND (25)	-	62 J	11	ND (25)	ND (25)	ND (25)	ND (0.0099)	ND (0.079)	ND (0.50)	0.55	ND (0.098)	-	-	-	-	-	ND (0.080)
		17-Jul-12	MW37_071712		200,000	1,200	ND (250)	ND (250)	ND (250)	-	ND (250)	10	ND (250)	ND (250)	ND (250)	ND (0.0099)	4	0.7	8	7	0.7	3	3	4	2	0.067 J
		3-Apr-13	MW-37		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1)
		3-Apr-13	MW-37_040313		96,600	1,250	ND (250)	70.7 J	ND (250)	-	ND (500)	2.91	ND (500)	ND (500)	ND (250)	ND (0.020)	ND (0.10)	0.409	0.248	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	-
		30-May-14	MW-37		236,000	3,040	ND (100)	197	ND (100)	-	58.9 J	4.52	ND (200)	ND (200)	ND (100)	ND (0.020)	0.173	0.615	0.767	0.485	0.244	0.126	0.140	0.227	0.138	17.5
		17-Dec-14	MW-37-20141217		197,000	2,220	ND (1,000)	ND (1,000)	ND (1,000)	-	ND (1,000)	3.60	ND (2,000)	ND (2,000)	ND (1,000)	ND (0.020)	ND (0.10)	0.342	0.351	0.171	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	1.3 J
		19-May-15	MW-37_20150519		90,000	1,400	ND (50)	91 J	ND (50)	-	ND (50)	6	ND (50)	ND (50)	ND (50)	ND (0.0096)	0.3 J	0.4 J	0.6	0.6	0.1 J	0.2 J	0.2 J	0.3 J	0.2 J	ND (0.082)
		16-May-16	MW-37-20160516		130,000	1,100	ND (100)	ND (100)	ND (100)	-	ND (100)	10	ND (100)	ND (100)	ND (100)	0.024 J	ND (0.1)	0.7	0.8	0.2 J	0.2 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.13)
		16-May-17	MW-37-20170516		160,000	1,200	ND (250)	ND (250)	ND (250)	-	ND (250)	5	ND (250)	ND (250)	ND (250)	ND (0.0095)	0.1 J	0.4 J	0.7	0.3 J	0.1 J	ND (0.1)	0.1 J	ND (0.1)	ND (0.1)	ND (0.090)
		1-Aug-18	MW-37_20180801		262,000	ND (10,000)	ND (10,000)	ND (30,000)	ND (10,000)	ND (50,000)	ND (10,000)	4.76	ND (10,000)	ND (10,000)	ND (10,000)	ND (0.0100)	ND (0.0500)	0.613	0.609	0.178	0.144	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		2-Jul-19	MW-37_20190702		290,000	560	ND (40)	140 J	ND (40)	ND (2,000)	ND (60)	5	ND (60)	ND (60)	ND (400)	ND (0.0095)	ND (0.09)	0.4 J	0.7	0.3 J	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (1.1)
	MW-38	26-Apr-05	MW38-042605		110	ND (5)	ND (5)	ND (5)	11	-	ND (5)	ND (10)	-	-	ND (5)	ND (0.029)	ND (10)	24	ND (10)	ND (10)	-	-	-	-	-	-
		12-Jul-12	MS38_071212		41	ND (0.5)	ND (0.5)	ND (0.5)	33	-	ND (0.5)	0.2 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0096)	0.1 J	0.5	0.4 J	2	0.9	0.1 J	ND (0.09)	0.1 J	ND (0.09)	0.11 J
		28-May-14	MW-38		57.4	2.3	2.1	2.4	185	-	1.7	ND (0.10)	0.96 J	0.42 J	ND (1.0)	ND (0.020)	ND (0.10)	0.947	0.544	1.27	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	1.9 J
		11-Dec-14	MW-38-20141211		4.2	ND (1.0)	ND (1.0)	ND (1.0)	37.8	-	0.51 J	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	0.734	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		26-Jul-18	MW-38-20180726		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	1.18	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	ND (0.0500)	ND (0.0500)	0.316	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		2-Jul-19	MW-38_20190702		3	ND (0.2)	ND (0.2)	ND (0.5)	2	50	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	0.4 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		22-Apr-21	MW-38_20210422		0.62 J	ND (1.0)	ND (1.0)	ND (6.0)	2.0	13 J	ND (5.0)	0.96	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.51)	ND (0.51)	ND (0.51)	0.37 J	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.52)
	MW-43	2-May-05	MW43-050205		5,400	ND (130)	1,000	490	ND (130)	-	ND (130)	7,400	-	-	ND (130)	0.041	ND (99)	ND (99)	170	ND (99)	-	-	-	-	-	-
		5-Dec-06	MW-43		2,300	63	1,300	740	13 J	-	140	7,500	-	-	ND (5.0)	ND (0.0097)	88.0	170	320	190	-	-	-	-	-	0.16 J
		19-Dec-07	MW-43		2,600	88	2,400	1,300	-	-	150	9,700	-	-	ND (25)	ND (0.0096)	8.0	65	79	24	-	-	-	-	-	ND (0.047)
		14-Apr-11	MW-43		800	34 J	560	320	7 J	-	120	-	-	-	21 J	ND (10)	-	-	-	-	-	-	-	-	-	-
		7-Jun-11	MW-43		2,500	210	3,100	2,100	29 J	-	150	7,100	750	250	ND (20)	ND (20)	1.1 J	52	47	4.3	-	-	-	-	-	ND (0.08)
		19-Jul-12	MW43_071912		970	47	1,500	900	6	-	130	5,100	390	100	ND (3)	ND (0.0097)	0.8	51	54	4	10	0.6	0.4 J	0.6	0.3 J	ND (0.034)
		30-May-14	MW-43		1,110	75.9	3,200	1,710	5.3 J	-	185	7,070	802	200	ND (20)	ND (0.020)	0.895	50.1	56.0	3.51	10.2	0.622	0.597	0.992	0.660	ND (3.0)
		18-Dec-14	MW-43-20141218		681	22.5	63.2	73.7	5.2	-	100	124	14.4	6.7	ND (1.0)	ND (0.020)	0.964	15.9	15.9	1.91	2.20	0.701	0.555	0.960	0.482	ND (3.0)
		27-Jul-18	MW-43_20180727		165	10.8	191	122	1.36	78.7	46.2	847	51.6	14.6	ND (1.00)	ND (0.0100)	0.941	11.4	12.9	2.03	2.28	0.471	0.640	1.22	0.607	ND (2.00)
	MW-44	22-Sep-05	MW-44_092205		1,400	ND (50)	ND (50)	ND (50)	82	-	ND (50)	ND (50)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		6-Jun-11	MW-44		21,000	6,000	2,900	15,000	720	-	100	2,900	2,600	810	ND (20)	ND (20)	39	110	250	ND (270)	-	-	-	-	-	27.4
		29-May-14	MW-44		13,000	2,690	1,600	8,950	623	-	66.7	346	2,130	624	ND (50)	ND (0.020)	1.10	9.15	14.8	3.14	2.54	1.08	0.634	1.11	0.429	38.6
		17-Dec-14	MW-44-20141217		6,660	848	1,300	6,750	ND (50)	-	46.6 J	646	1,330	403	ND (50)	ND (0.020)	16.8	18.6	40.9	23.4	4.94	6.30	11.4	17.3	12.9	7.8
		1-Aug-18	MW-44_20180801		8,870	1,330	1,740	10,500	345	3,500	ND (100)	594	1,700	496	ND (100)	ND (0.0100)	0.748	7.07	8.22	1.85	1.15	ND (0.500)	ND (0.500)	0.846	ND (0.500)	16.0
		1-Jul-19	MW-44_20190701		8,700	220	990	5,300	120	740	43 J	270	1,200	360	ND (40)	ND (0.0095)	2	4	6	3	0.7	0.7	1	2	0.9	4.5
		23-Apr-21	MW-44_20210423		11,000	390	1,400	7,900	160	1,400	55	330	1,500	450	ND (10)	ND (0.029)	4.5	4.6	8.7	6.5	1.0	1.9	3.0	4.8	2.0	5.4
	OW-19	26-Jul-12	OW-19_072612		12,000	8,600	2,700	18,000	420,000	-	150	9,500	4,000	1,400	32 J	ND (0.0098)	130	450	890	440	200	140	110	140	62	1.2
		28-May-14	OW-19		20,900	39,300	4,000	26,400	184,000	-	156	765	4,060	1,200	ND (50)	ND (0.020)	0.866	4.29	7.62	3.02	2.22	0.946	0.506	0.705	0.265	3.1
		18-Dec-14	OW-19-20141218		20,600	33,500	4,750	31,600	418,000	-	329	562	7,890	2,590	ND (200)	ND (0.020)	1.87	11.2	20.4	4.60	2.87	1.80	1.19	1.53	0.802	7.7
		15-Aug-18	OW-19_20180815		18,000	43,500	13,100	87,600	172,000	-	ND (5,000)	3,120	33,600	11,200	ND (5,000)	ND (0.0100)	27.4	106	215	86.2	60.4	27.5	18.1	23.1	10.7	ND (18.0)
		1-Jul-19	OW-19_20190701		8,600	11,000	1,400	9,800	63,000	40,000	68 J	600	1,900	630	ND (40)	ND (0.0094)	18	33	85	54	26	18	17	14	7	ND (1.1)
	OW-20	23-Apr-21	OW-20_20210423		19,000	10,000	1,200	15,000	2,700	20,000 J	1,600 J	1,300	2,000 J	720 J	ND (1,000)	ND (0.028)	24	57	130	82	36	25	17	21	6.8	2.8
	RW-26	7-Jun-11	RW-26		5,400	150	200	1,500	24,000	-	13 J	49	350	160	ND (10)	ND (10)	1.1	15	8.8	2.7	-	-	-	-	-	1.5
		11-Jul-12	RW26_071112		10,000	ND (100)	1,100	1,800	210,000	-	ND (100)	9,500	520	150 J	ND (100)	ND (0.0097)	ND (1)	58	48	4 J	9	ND (1)	ND (1)	ND (1)	ND (1)	0.19 J
		29-May-14	RW-26		6,020	31.7 J	902	1,220	1,580	-	83.5	6,680	491	104	ND (50)	ND (0.020)	0.113	16.5	12.4	0.789	2.26	0.111	ND (0.10)	0.112	ND (0.10)	1.3 J
		17-Dec-14	RW-26-20141217		7,500	172	992	1,620	5,320	-	69.5	6,000	384	89.1	ND (25)	ND (0.020)	0.967	22.8	25.4	3.45	4.98	1.02	0.506	0.627	0.214	ND (3.0)
		1-Aug-18	RW-26_20180801		3,570	ND (250)	589	ND (750)	1,840	52,700	ND (250)	3,680	327	ND (250)	ND (250)	ND (0.0100)	0.342	37.3	33.8	2.96	6.05	0.347	0.134	0.172	0.0524	ND (2.00)
		3-Jul-19	RW-26_20190703		1,000	16	230	380	1,000	8,700	49	930	400	24 J	ND (10)	ND (0.0094)	0.9	12	20	4	3	0.7	0.6	0.8	0.6	ND (1.1)
		22-Apr-21	RW-26_20210422		440	6.7	170	170	350	18,000 E	22 J	1,900	100	27	ND (5.0)	ND (0.029)	0.11 J	13	12	1.1	2.0	0.11 J	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.52)
		22-Apr-21	DUP-2_20210422	Field Duplicate	440	6.8	180	170	350	18,000 E	23 J	1,800	100	28	ND (5.0)	ND (0.029)	0.11 J	13	12	1.0	1.9	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.52)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
BELMONT	S-74	15-Oct-04	S-74		ND (1.0)	ND (5.0)	ND (5.0)	ND (10)	ND (5.0)	-	ND (5.0)	ND (5.0)	-	-	ND (5.0)	ND (0.020)	ND (0.14)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	ND (5.0)
		26-Apr-05	S74-042605		ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (5)	ND (10)	-	-	ND (5)	ND (0.029)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	-
		18-Dec-07	S-74		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	-	ND (0.5)	ND (1.0)	-	-	ND (0.5)	ND (0.0094)	ND (1.0)	ND (1.0)	ND (1.0)	3.0 J	-	-	-	-	-	0.064 J
		7-Nov-08	S-74_110708		0.8 J	ND (0.5)	3	0.6 J	0.7 J	-	1 J	48	9	0.9 J	ND (0.5)	ND (0.0097)	ND (1)	-	1 J	2 J	-	-	-	-	-	ND (0.050)
		18-Nov-09	S-74		94	2	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (0.057)	-	0.066 J	0.46	-	-	-	-	-	ND (0.050)
		10-Nov-10	S-74		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.5 J	-	ND (0.5)	ND (1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	ND (0.052)
		29-Nov-11	S-74		0.6 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.99)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0098)	0.75	ND (0.099)	0.64	1.3	-	-	-	-	-	ND (0.080)
		12-Jul-12	S-74_071212		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.6 J	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	0.1 J	ND (0.1)	0.2 J	1	ND (0.1)	0.2 J	0.2 J	0.3 J	0.1 J	0.13 J
		3-Apr-13	S-74		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1)
		3-Apr-13	S-74_040313		ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (2.0)	1.20	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	-
		27-May-14	S-74		3.0	1.2	ND (1.0)	2.4	0.69 J	-	ND (1.0)	0.580	0.67 J	ND (2.0)	ND (1.0)	ND (0.020)	0.191	0.183	0.614	0.462	0.110	0.130	ND (0.10)	0.165	ND (0.10)	ND (3.0)
		8-Dec-14	S-74-20141208		ND (0.50)	ND (1.0)	ND (1.0)	0.72 J	0.37 J	-	ND (1.0)	0.138	0.54 J	0.34 J	ND (1.0)	ND (0.020)	0.244	ND (0.10)	0.250	0.412	ND (0.10)	0.141	0.167	0.317	0.164	1.8 J
		19-May-15	S-74_20150519		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	2	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	0.5	ND (0.1)	0.3 J	1	ND (0.1)	0.2 J	0.8	0.8	0.5	ND (0.082)
		16-May-16	S-74-20160516		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0097)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.13)
		16-May-17	S-74-20170516		3	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	-	ND (0.5)	0.8	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.0095)	ND (0.1)	0.1 J	0.3 J	0.5	0.1 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.090)
		26-Jul-18	S-74_20180726		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	ND (1.00)	-	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	ND (0.0500)	ND (0.0500)	0.162	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
	S-75	12-Jul-12	S-75_071212		5	2	6	3	4	-	61	23	3 J	10	ND (1)	ND (0.0096)	1 J	64	110	10	11	1 J	ND (0.9)	1 J	1 J	26.1
		28-May-14	S-75		8.9	3.7	12.5	5.2	14.0	-	62.3	ND (0.10)	5.8	15.3	ND (1.0)	ND (0.020)	0.529	19.8	32.7	3.38	ND (0.10)	0.515	0.297	0.436	0.440	6.7
		11-Dec-14	S-75-20141211		9.9	4.0	4.5	5.9	13.5	-	56.9	ND (0.10)	4.1	9.5	ND (1.0)	ND (0.020)	0.506	20.9	40.0	3.96	ND (0.10)	0.526	0.311	0.407	0.376	8.6
		2-Aug-18	S-75-20180802		2.32 SL	1.43 SL	ND (1.00) SL	ND (3.00) SL	29.3 SL	169 SL	60.2 SL	6.12 SL	ND (1.00) SL	7.15 SL	ND (1.00) SL	ND (0.0100) SL	0.740 SL	8.33 SL	6.31 SL	3.97 SL	ND (0.250) SL	0.698 SL	0.336 SL	0.372 SL	0.295 SL	3.92 B SL
		2-Jul-19	S-75_20190702		6	2	2	1 J	24	410	31	1	0.6 J	7	ND (2)	ND (0.0094)	ND (0.1)	3	3	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	2.3 J
		2-Jul-19	DUP-5_20190702	Field Duplicate	6	2	2	1 J	22	480	29	3	0.5 J	6	ND (2)	ND (0.0094)	ND (0.1)	2	2	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	2.5 J
	S-394	21-May-14	S-394		8,700	ND (25)	ND (25)	ND (25)	ND (25)	-	ND (25)	0.350	ND (50)	ND (50)	ND (25) J	ND (0.020)	ND (0.10)	ND (0.10)	0.107	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		5-Dec-14	S-394-20141205		22,200	ND (100)	ND (100)	ND (100)	ND (100)	-	ND (100)	0.363	ND (200)	ND (200)	ND (100)	ND (0.020)	ND (0.10)	ND (0.10)	0.166	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	1.4 J
		1-Aug-18	S-394_20180801		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	ND (1.00)	ND (5.00)	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	0.129	ND (0.0500)	0.0941	0.226	ND (0.0500)	0.0711	0.106	0.184	0.109	ND (2.00)
		9-Jul-19	S-394_20190709		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	0.5 J	ND (10)	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0094)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		23-Apr-21	S-394_20210423		19	0.56 J	1.4	8.2	ND (1.0)	ND (50)	ND (5.0)	0.42 J	1.2 J	0.45 J	ND (1.0)	ND (0.029)	2.1	ND (0.54)	1.4	2.8	ND (0.54)	0.69	1.6	2.9	1.3	0.99
	S-395	27-May-14	S-395		312	2.1	0.58 J	1.3	ND (1.0)	-	1.5	0.212	0.30 J	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (3.0)
		15-Dec-14	S-395-20141215		11.3	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	0.87 J	ND (0.10)	ND (2.0)	ND (2.0)	ND (1.0)	ND (0.020)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10) J	ND (0.10)	ND (0.10)	ND (0.10)	1.3 J
		1-Aug-18	S-395_20180801		ND (1.00)	ND (1.00)	ND (1.00)	ND (3.00)	ND (1.00)	ND (5.00)	ND (1.00)	ND (0.250)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.0100)	ND (0.0500)	ND (0.0500)	ND (0.0500)	0.0659	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (2.00)
		8-Jul-19	S-395_20190708		ND (0.2)	ND (0.2)	ND (0.2)	ND (0.5)	ND (0.2)	ND (10)	ND (0.3)	ND (0.1)	ND (0.3)	ND (0.3)	ND (2)	ND (0.0095)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)
		22-Apr-21	S-395_20210422		0.45 J	ND (1.0)	ND (1.0)	ND (6.0)	ND (1.0)	ND (50)	ND (5.0)	0.52 J	ND (5.0)	ND (5.0)	ND (1.0)	ND (0.029)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	0.28 J
	TW-5	14-Oct-04	TW-5		700,000	12,000	540	2,100	ND (200)	-	ND (200)	ND (1,000)	-	-	ND (200)	ND (0.020)	3.0	ND (14)	ND (14)	ND (14)	-	-	-	-	-	ND (5.0)
		25-Apr-05	TW5-042505		450,000	8,500	ND (5,000)	ND (5,000)	ND (5,000)	-	ND (5,000)	17	-	-	ND (5,000)	ND (0.029)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	-
		13-Jul-12	TW-5_071312		680,000	10,000	670 J	1,900	ND (500)	-	ND (500)	130	ND (500)	ND (500)	ND (500)	ND (0.0096)	11	28	130	48	25	7	5 J	8	4 J	0.077 J
		30-May-14	TW-5		572,000	7,340	ND (5,000)	ND (5,000)	ND (5,000)	-	ND (5,000)	14.3	ND (10,000)	ND (10,000)	ND (5,000)	ND (0.020)	0.799	1.88	5.70	2.36	1.48	0.637	0.537	0.844	0.413	2.4 J
		18-Dec-14	TW-5-20141218		665,000	9,320	517	2,450	22.9 J	-	144	28.6	26.0 J	13.7 J	ND (50)	ND (0.020)	0.590	1.77	4.17	1.74	1.06	0.510	0.355	0.575	0.289	ND (3.0)
		14-Aug-18	TW_5_20180814		489,000	ND (10,000)	541	ND (30,000)	ND (500)	-	ND (500)	27.3	ND (10,000)	ND (500)	ND (500)	ND (0.0100)	1.27	5.44	21.6	9.67	4.18	1.33	0.669	1.15	0.528	ND (2.00)
		3-Jul-19	TW-5_20190703		850,000	8,700	410 J	1,900 J	ND (100)	ND (5,000)	ND (150)	15	ND (150)	ND (150)	ND (1,000)	ND (0.0094)	0.3 J	ND (0.1)	1	0.5	0.4 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (1.1)

See notes on last page.

Table 4
Historical Perimeter Groundwater Sampling Analytical Results
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Area of Interest	Sample Location	Sample Date	Sample ID	Sample Type	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL (DIMETHYLBENZENE)	METHYL TERTIARY BUTYL ETHER	TERT-BUTYL ALCOHOL	ISOPROPYLBENZENE (CUMENE)	NAPHTHALENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,2-DICHLOROETHANE (EDC)	1,2-DIBROMOETHANE (EDB)	CHRYSENE	FLUORENE	PHENANTHRENE	PYRENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	LEAD, Dissolved
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
BELMONT	TW-8	15-Oct-04	TW-8		1,500	ND (80)	2,100	1,800	290	-	210	14,000	-	-	ND (74)	ND (0.020)	270	800	1,800	740	-	-	-	-	-	ND (5.0)
		25-Apr-05	TW8-042505		480	ND (250)	2,100	2,800	ND (250)	-	280	22,000	-	-	ND (250)	ND (0.029)	200	620	ND (2,500)	500	-	-	-	-	-	-
		5-Dec-06	TW-8		150	5.0	2,100	1,700	17	-	290	13,000	-	-	ND (1.0)	ND (0.0099)	580	2,100	4,300	1,700	-	-	-	-	-	0.15 J
		18-Dec-07	TW-8		660	12 J	1,400	870	-	-	190	12,000	-	-	ND (10)	ND (0.0094)	240	700	1,500	570	-	-	-	-	-	0.15 J
		7-Nov-08	TW-8_110708		240	ND (5)	1,600	790	31	-	170	13,000	1,100	140	ND (5)	ND (0.0097)	12	-	96	24	-	-	-	-	-	ND (0.050)
		18-Nov-09	TW-8		240	ND (10)	1,000	510	ND (10)	-	230	9,100	1,200	130	ND (10)	ND (0.0097)	16	-	180	63	-	-	-	-	-	ND (0.050)
		10-Nov-10	TW-8		84	2	1,300	430	8	-	180	9,200	1,200	91	ND (1)	ND (0.0097)	14 J	75	120	35 J	-	-	-	-	-	0.20 J
		29-Nov-11	TW-8		37	ND (3)	1,100	280	8	-	200	11,000	960	78	ND (3)	ND (0.0097)	ND (29)	120	180	68	-	-	-	-	-	0.84 J
		18-Jul-12	TW-8_071812		80	ND (5)	1,900	330	6 J	-	270	16,000	1,800	120	ND (5)	ND (0.0098)	26	110	180	59	44	25	18	22	8	0.74 J
		3-Apr-13	TW-8		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1)
		3-Apr-13	TW-8_040313		224	ND (20)	874	192	ND (20)	-	216	2,400	902	52.8	ND (20)	ND (0.020)	1.92	37.8	43.2	8.63	8.65	2.08	1.39	1.52	0.592	-
		27-May-14	TW-8		39.3	0.60 J	1,100	136	5.3	-	346	5,970	1,620	68.4	ND (1.0)	ND (0.020)	0.946	21.3	16.9	3.01	4.80	0.849	0.552	0.641	0.256	ND (3.0)
		11-Dec-14	TW-8-20141211		8.4	ND (10)	184	18.8	ND (10)	-	61.8	3,150	269	15.4 J	ND (10)	ND (0.020)	4.43	40.9	62.1	17.0	13.7	6.39	3.62	5.02	1.55	ND (3.0)
		19-May-15	TW-8_20150519		63	ND (3)	670	68	4 J	-	180	7,300	880	48	5	ND (0.0096)	5	56	57	11	12	4	3	3	1	0.089 J
		16-May-16	TW-8-20160516		500	0.9 J	560	89	4	-	150	6,000	530	52	2	ND (0.0097)	9	56	67	18	15	7	5	6	3	ND (0.13)
		16-May-17	TW-8-20170516		330	3 J	560	69	ND (3)	-	180	4,400	670	63	ND (3)	ND (0.0095)	18	83	140	41	32	17	12	14	7	ND (0.090)
		3-Aug-18	TW-8_20180803		307	25.9	526	82.0	2.54	8.15	129	6,530	466	43.8	ND (1.00)	ND (0.0100)	1.91	44.4	36.6	6.69	7.90	1.79	1.29	1.46	0.853	ND (2.00)

Notes:

15.2	Concentration was detected.
ND (0.5)	Analyte was not detected at a concentration greater than the laboratory reporting limit.
B	Indicates the analyte was detected in the associated blank as well as in the sample.
D	Indicates an identified compound in an analysis that has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analyses.
DR	Dry
E	Indicates compounds whose concentrations exceed the calibration range of the instrument.
ED	EDB was analyzed under SW8011. Laboratory work order and laboratory sample ID may be different for this result.
DM	Date missing from original field records. Date of completion estimated. If only month and year are available, the default will be the first day of the month.
HT	Sample(s) received past/too close to holding time expiration.
J	Indicates an estimated value above the method detection limit but below the laboratory reporting limit or limit of quantitation.
J-	Indicates an estimated value that is biased low.
J+	Indicates an estimated value that is biased high.
MI	Matrix Interference
ND	Not Detected
OE	The associated batch QC was outside the established quality control range for precision/accuracy.
R	The data failed the usability assessment (data validation) and are unusable. The analyte may or may not be present in the sample.
SH	The sample concentration is too high to evaluate accurate spike recoveries.
SL	Sample was collected below LNAPL.
WI	Well Inaccessible
µg/L	Micrograms per liter
-	Not analyzed
*	Indicates that the analyte was reported by two different methods. For 1,2-Dibromoethane (EDB), the SW8011 method result is shown. For Naphthalene, the SW8270 result is shown.
LNAPL	Light non-aqueous phase liquid

APPENDIX 1
Remediation System Recovery Data

Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC
Groundwater and LNAPL Recovery Systems Operational Data
Belmont Terminal
Loading Rack Remediation System
First Half 2021

Date	Total Flow (gallons)	Period Total Flow (gallons)	Average Flow Rate (gpm)	LNAPL Recovered in Period (gallons)	Total LNAPL Recovered (gallons)
8-Jan-21	105,635,445	16	0.00	0.0	255,663
13-Jan-21	105,640,086	4,641	0.64	0.0	255,663
20-Jan-21	105,640,086	0	0.00	0.0	255,663
29-Jan-21	105,640,086	0	0.00	0.0	255,663
5-Feb-21	105,640,360	274	0.03	0.0	255,663
12-Feb-21	105,645,827	5,467	0.54	0.0	255,663
19-Feb-21	105,650,255	4,428	0.44	0.0	255,663
26-Feb-21	105,654,682	4,428	0.44	0.0	255,663
5-Mar-21	105,659,130	4,448	0.44	0.0	255,663
12-Mar-21	105,659,390	260	0.03	0.0	255,663
19-Mar-21	105,659,390	0	0.00	0.0	255,663
25-Mar-21	105,659,390	0	0.00	0.0	255,663
2-Apr-21	105,659,390	0	0.00	0.0	255,663
9-Apr-21	105,659,390	0	0.00	0.0	255,663
16-Apr-21	105,659,390	0	0.00	0.0	255,663
23-Apr-21	105,659,390	0	0.00	0.0	255,663
30-Apr-21	105,659,390	0	0.00	0.0	255,663
7-May-21	105,659,390	0	0.00	0.0	255,663
14-May-21	105,659,390	0	0.00	0.0	255,663
19-May-21	105,659,402	12	0.00	0.0	255,663
27-May-21	105,664,735	5,333	0.46	0.0	255,663
4-Jun-21	105,667,728	2,993	0.26	0.0	255,663
11-Jun-21	105,667,728	0	0.00	0.0	255,663
16-Jun-21	105,667,728	0	0.00	0.0	255,663
23-Jun-21	105,667,728	0	0.00	0.0	255,663

	Total Flow (gallons)	LNAPL Recovered (gallons)
First Half 2021 Totals	32,299	0

Notes:

gpm: gallons per minute

LNAPL: Light Non-Aqueous Phase Liquid

The Belmont Terminal Remediation System consists of the Loading Rack system (RW-4 and RW-22 through RW-25). The system has a dedicated totalizer and consists of dual water/LNAPL pumps within each recovery well. The pumps are operated on an as needed basis to recover LNAPL.

The Loading Rack system was operational during the reporting period with the following exceptions:

On January 8, the groundwater recovery pump was reinstalled in RW-24 and the system was returned to service.

On January 13, the system was taken out of service because the RW-24 piping required repairs.

On February 5, the RW-24 piping was repaired and the pump in RW-24 was returned to service.

On February 12, the pump in RW-24 was inoperable. The RW-24 pump was cleaned and returned to service.

On March 12, the pump and motor in RW-24 fell to the bottom of the well due to a oxidized fitting. Subsequently, a well driller removed the pump and motor prior to replcement.

On May 19, the pump and motor were replaced in RW-24 and returned to service.

On June 4, the system was inoperable because repairs were required to the RW-24 pump motor. The system was taken out of service until repairs could be made. The system remained off for the remainder of the report period.

Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC
AOI 1: Shunk Street Sewer Ventilation System and Biofilter
Organic Vapor Concentrations
First Half 2021

Date	Flow Rate (CFM)	Sewer Air PID (ppm)	Treatment Cell Effluent PID (ppm)			Treatment Cell Media Temperature (°F)		
			Cell #1	Cell #2	Cell #3	Cell #1	Cell #2	Cell #3
8-Jan-21	3,000	1.0	0	0	0	56	56	56
13-Jan-21	3,000	1.0	0	0	0	62	62	62
20-Jan-21	3,000	1.0	0	0	0	62	62	62
29-Jan-21	3,000	1.0	0	0	0	62	62	62
5-Feb-21	3,200	0.0	0	0	0	62	62	62
12-Feb-21	3,000	1.0	0	0	0	52	52	52
19-Feb-21	3,000	1.0	0	0	0	52	52	52
26-Feb-21	3,000	1.0	0	0	0	52	52	52
5-Mar-21	3,200	1.0	0	0	0	46	46	46
12-Mar-21	3,500	3.0	0	0	0	46	46	46
19-Mar-21	3,500	2.0	0	0	0	46	46	46
25-Mar-21	3,500	2.0	0	0	0	46	46	46
2-Apr-21	3,500	2.0	0	0	0	46	46	46
9-Apr-21	3,500	1.0	0	0	0	46	46	46
16-Apr-21	3,500	1.0	0	0	0	46	46	46
23-Apr-21	3,500	1.0	0	0	0	61	61	61
30-Apr-21	3,500	1.0	0	0	0	69	69	69
7-May-21	3,200	1.9	0	0	0	65	65	65
14-May-21	3,200	3.0	0	0	0	74	74	74
19-May-21	3,300	1.0	0	0	0	74	74	74
27-May-21	3,300	1.0	0	0	0	74	74	74
4-Jun-21	3,200	2.0	0	0	0	71	71	71
10-Jun-21	2,800	2.0	0	0	0	71	71	71
16-Jun-21	4,900	1.3	0	0	0	73	73	73
21-Jun-21	4,900	1.3	0	0	0	75	73	75

Notes:
CFM: cubic feet per minute
ppm: parts per million
°F: Degrees Fahrenheit
Vapor concentrations are collected using a MultiRAE Lite Photoionization Detector (PID).
An air velocity meter is used measure the speed or flow of air within the sewer.
The Sewer Air reading is collected from the Shunk Street sewer air stream.
The system was operational for the reporting period.

Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC
AOI 1: Shunk Street Sewer Ventilation System and Biofilter
pH Data

First Half 2021

Date	Leachate pH	Biofilter Treatment Cell - Soil pH		
		Cell 1	Cell 2	Cell 3
29-Jan-21	6.41	NM	NM	NM
26-Feb-21	6.41	6.29	6.57	6.41
25-Mar-21	5.98	NM	NM	NM
30-Apr-21	6.22	NM	NM	NM
4-Jun-21	5.93	6.03	6.29	6.33
16-Jun-21	6.22	NM	NM	NM

NOTES:

Leachate pH readings are collected on a monthly basis.

Media pH readings are collected on a quarterly basis.

NM = Not Measured

The system was operational for the reporting period.

Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC
AOI 1: Shunk Street Sewer Ventilation System and Biofilter
Organic Vapor Concentrations
First Half 2021

Date	Flow Rate (CFM)	Total Flow PID (ppm)	Treatment Cell Effluent PID (ppm)			Treatment Cell Media Temperature (°F)		
			Cell #1	Cell #2	Cell #3	Cell #1	Cell #2	Cell #3
8-Jan-21	3,000	1.0	0	0	0	56	56	56
13-Jan-21	3,000	1.0	0	0	0	62	62	62
20-Jan-21	3,000	1.0	0	0	0	62	62	62
29-Jan-21	3,000	1.0	0	0	0	62	62	62
5-Feb-21	3,200	0.0	0	0	0	62	62	62
12-Feb-21	3,000	1.0	0	0	0	52	52	52
19-Feb-21	3,000	1.0	0	0	0	52	52	52
26-Feb-21	3,000	1.0	0	0	0	52	52	52
5-Mar-21	3,200	1.0	0	0	0	46	46	46
12-Mar-21	3,500	3.0	0	0	0	46	46	46
19-Mar-21	3,500	2.0	0	0	0	46	46	46
25-Mar-21	3,500	2.0	0	0	0	46	46	46
2-Apr-21	3,500	2.0	0	0	0	46	46	46
9-Apr-21	3,500	1.0	0	0	0	46	46	46
16-Apr-21	3,500	1.0	0	0	0	46	46	46
23-Apr-21	3,500	1.0	0	0	0	61	61	61
30-Apr-21	3,500	1.0	0	0	0	69	69	69
7-May-21	3,200	1.9	0	0	0	65	65	65
14-May-21	3,200	3.0	0	0	0	74	74	74
19-May-21	3,300	1.0	0	0	0	74	74	74
27-May-21	3,300	1.0	0	0	0	74	74	74
4-Jun-21	3,200	2.0	0	0	0	71	71	71
10-Jun-21	2,800	2.0	0	0	0	71	71	71
16-Jun-21	4,900	1.3	0	0	0	73	73	73
21-Jun-21	4,900	1.3	0	0	0	75	73	75

Notes:
CFM: cubic feet per minute
ppm: parts per million
°F: Degrees Fahrenheit
Vapor concentrations are collected using a MultiRAE Lite Photoionization Detector (PID).
An air velocity meter is used measure the speed or flow of air within the sewer.
The Sewer Air reading is collected from the Shunk Street sewer air stream.
The system was operational for the reporting period.

Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC
Total Fluids Recovery System Operational Data
AOI 1: 26th Street North Remediation System
First Half 2021

Date	Total Flow (gallons)	Period Total Flow (gallons)	Estimated System Flow Rate (gpm)
7-Jan-21	132,090,286	25,920	2.00
14-Jan-21	132,110,446	20,160	2.00
21-Jan-21	132,130,606	20,160	2.00
25-Jan-21	132,142,126	11,520	2.00
3-Feb-21	132,168,046	25,920	2.00
12-Feb-21	132,193,966	25,920	2.00
18-Feb-21	132,211,246	17,280	2.00
23-Feb-21	132,225,646	14,400	2.00
5-Mar-21	132,254,446	28,800	2.00
12-Mar-21	132,274,606	20,160	2.00
18-Mar-21	132,291,886	17,280	2.00
26-Mar-21	132,314,926	23,040	2.00
2-Apr-21	132,335,086	20,160	2.00
8-Apr-21	132,352,366	17,280	2.00
12-Apr-21	132,363,886	11,520	2.00
19-Apr-21	132,384,046	20,160	2.00
30-Apr-21	132,415,726	31,680	2.00
5-May-21	132,430,126	14,400	2.00
14-May-21	132,456,046	25,920	2.00
20-May-21	132,481,966	25,920	3.00
26-May-21	132,503,566	21,600	2.50
3-Jun-21	132,532,366	28,800	2.50
10-Jun-21	132,532,366	0	0.00
14-Jun-21	132,546,766	14,400	2.50
25-Jun-21	132,586,366	39,600	2.50

	Total Flow (gallons)
First Half 2021 Total	522,000

Notes:

gpm: gallons per minute

The Total Flow includes historical totals from former recovery wells RW-400 through RW-406 including 9,149 gallons of LNAPL.

The 26th Street North Remediation system consists of 20 total fluids recovery wells [15 active wells onsite along 26th Street (S-180, S-181, S-182, S-183, S-184, S-185, S-186, S-187, S-188, S-189, S-190, S-191, S-192, RW-400, & RW-402) and five inactive wells offsite on CSX property (S-193, S-194, S-265, S-267, & S-268)]. The offsite wells on the CSX property have not been activated. The system discharges directly to a process sewer; therefore, the volume of recoverable LNAPL cannot be quantified. The system flow rate was estimated at 0.5 gpm per active well.

The system was operational for the reporting period with the following exceptions:

On May 14, pumps were reinstalled in S-186 and S-187, and returned to service.

On May 20, the pump in S-187 was inoperable. S-187 pump was removed for maintenance and remained off for the remainder of the reporting period.

On June 3, the system was taken out of service while construction activities were conducted in the area.

On June 10, the system was restarted and returned to service.

Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC
AOI 1: 26th Street & Packer Avenue Sewers Biofilter Remediation System
pH Data
First Half 2021

Date	Leachate pH	Biofilter Bed - Soil pH			
		Cell 1	Cell 2	Cell 3	Cell 4
28-Jan-21	6.57	NM	NM	NM	NM
24-Feb-21	6.39	6.46	6.55	NM	NM
24-Mar-21	6.60	NM	NM	NM	NM
30-Apr-21	6.77	NM	NM	NM	NM
26-May-21	6.42	6.55	6.69	NM	NM
18-Jun-21	6.75	NM	NM	NM	NM

Notes:

Media pH readings are collected on a quarterly basis.

NM: not measured

Cells 3 and 4 were shut off June 18, 2010 and remained off for the reporting period as they are not currently needed for vapor treatment.

The system was operational during the reporting period.

Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC
AOI 1: 26th Street & Packer Avenue Sewers Biofilter Remediation System
Organic Vapor Concentrations
First Half 2021

Date	Flow Rate (CFM)	Biofilter Influent (ppm)			Biofilter Effluent (ppm)				
		Packer Ave.	26th Street	ST-1 (Combined Influent)	Cell-1N	Cell-1S	Cell-2N	Cell-2S	Percent Reduction
1/5/2021	8,200	18.0	0.0	12	0.0	0.0	0.0	0.0	100.0%
1/13/2021	8,200	17.0	11.0	14	0.0	0.0	0.0	0.0	100.0%
1/20/2021	8,200	17.0	11.0	14	0.0	0.0	0.0	0.0	100.0%
1/28/2021	8,200	22.0	20.0	28	0.0	0.0	0.0	0.0	100.0%
2/5/2021	8,200	16.0	9.0	28	0.0	0.0	0.0	0.0	100.0%
2/12/2021	8,200	2.0	2.0	10	0.0	0.0	0.0	0.0	100.0%
2/18/2021	8,200	6.0	1.0	6	0.0	0.0	0.0	0.0	100.0%
2/24/2021	8,200	0.0	8.0	9	0.0	0.0	0.0	0.0	100.0%
3/3/2021	8,200	4.0	11.0	19	0.0	0.0	0.0	0.0	100.0%
3/12/2021	8,200	22.0	15.0	20	0.0	0.0	0.0	0.0	100.0%
3/17/2021	8,200	19.0	13.0	13	0.0	0.0	0.0	0.0	100.0%
3/24/2021	8,200	1.5	0.0	9	0.0	0.0	0.0	0.0	100.0%
4/2/2021	8,200	0.0	4.0	8	0.0	0.0	0.0	0.0	100.0%
4/9/2021	8,200	2.0	0.0	4	0.0	0.0	0.0	0.0	100.0%
4/15/2021	8,200	2.0	0.0	4	0.0	0.0	0.0	0.0	100.0%
4/19/2021	8,200	2.0	0.0	4	0.0	0.0	0.0	0.0	100.0%
4/30/2021	8,200	5.0	2.0	4	0.0	0.0	0.0	0.0	100.0%
5/7/2021	8,200	1.2	0.7	3.6	0.0	0.0	0.0	0.0	100.0%
5/14/2021	8,200	1.0	0.0	1	0.0	0.0	0.0	0.0	100.0%
5/19/2021	8,200	1.0	1.0	6	0.0	0.0	0.0	0.0	100.0%
5/26/2021	8,500	2.0	5.0	3	0.0	0.0	0.0	0.0	100.0%
6/4/2021	8,800	1.0	1.0	1	0.0	0.0	0.0	0.0	100.0%
6/10/2021	8,200	0.5	0.9	1	0.0	0.0	0.0	0.0	100.0%
6/18/2021	8,200	0.5	0.9	1	0.0	0.0	0.0	0.0	100.0%
6/24/2021	8,300	2.0	2.8	1	0.0	0.0	0.0	0.0	100.0%

Notes:

cfm: cubic feet per minute

ppm: parts per million

Vapor concentrations are collected using a MultiRAE Lite Photoionization Detector (PID).

An air velocity meter is used measure the speed or flow of air within the sewer.

The system was operational during the reporting period.

Cells 3 and 4 were shut off June 18, 2010 and remained off for the reporting period as they are not currently needed for vapor treatment.

Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC
Total Fluids Recovery System Operational Data
AOI 2: Pollock Street Horizontal Wells
First Half 2021

Actual Dates in Period	Days in Period	HW-1 Water Recovered During Period (gallons)	HW-2 Water Recovered During Period (gallons)	HW-3 Water Recovered During Period (gallons)	Total Fluids Extracted During Period (gallons)	Total Fluids Extracted (gallons)
1/5/2021	8	120,833	0	24,192	145,025	138,370,531
1/11/2021	6	90,625	0	18,144	108,769	138,479,300
1/19/2021	8	132,600	0	21,168	153,768	138,633,068
1/25/2021	6	95,100	0	0	95,100	138,728,168
2/2/2021	8	124,800	0	0	124,800	138,852,968
2/8/2021	6	65,500	0	0	65,500	138,918,468
2/16/2021	8	111,400	45,910	21,168	178,478	139,096,946
2/23/2021	7	91,600	48,060	18,144	157,804	139,254,750
3/1/2021	6	77,100	38,490	15,120	130,710	139,385,460
3/9/2021	8	106,200	49,420	21,168	176,788	139,562,248
3/15/2021	6	84,500	35,920	15,120	135,540	139,697,788
3/24/2021	9	115,600	18,030	24,192	157,822	139,855,610
3/31/2021	7	113,833	34,897	18,144	166,874	140,022,484
4/9/2021	9	113,833	34,897	0	148,730	140,171,214
4/16/2021	7	113,833	34,897	0	148,730	140,319,944
4/21/2021	5	216,800	77,290	0	294,090	140,614,034
4/30/2021	9	82,400	35,075	0	117,475	140,731,509
5/3/2021	3	82,400	35,075	0	117,475	140,848,984
5/11/2021	8	89,100	44,790	0	133,890	140,982,874
5/17/2021	6	79,500	21,770	0	101,270	141,084,144
5/26/2021	9	135,100	54,960	0	190,060	141,274,204
6/4/2021	9	144,100	44,130	0	188,230	141,462,434
6/10/2021	6	90,625	22,630	0	113,255	141,575,688
6/15/2021	5	106,300	25,680	0	131,980	141,707,668
6/21/2021	6	126,900	26,510	0	153,410	141,861,078

	Total Flow (gallons)
First Half 2021 Total	3,635,572

Notes:

LNAPL: Light Non-Aqueous Phase Liquid

NA: Not Applicable

The Pollock Street Horizontal Wells consist of three horizontal recovery wells (HW-1, HW-2, and HW-3). Groundwater and LNAPL from HW-1 and HW-2 discharge directly into a Benzene National Emission Standard for Hazardous Air Pollutants (NESHAP) controlled sewer, whereas groundwater and LNAPL from HW-3 discharge directly into an onsite process sewer. Total fluids are discharged; therefore, the volume of recoverable LNAPL cannot be quantified.

The HW-3 flow rate was estimated at 2.1 gallons per minute (gpm). HW-1 and HW-2 flow is measured and reported by totalizers.

The system was operational during the reporting period with the following exceptions:

During the beginning of the reporting period, HW-2 was inoperable. On February 16, HW-2 was returned to service.

On January 5 and January 11, the HW-1 flowmeter was cleaned and returned to service. HW-1 recovery during this period was calculated using the average flow rate in 2020 (15,104 gal/day).

On January 19, HW-3 was out of service due to removal of plant compressed air associated with site demolition activities. The compressed air was restarted on February 8 and HW-3 was returned to service.

On March 24, HW-2 flow was reduced due to fouling of the flow meter. The flow meter was cleaned and the well was returned to service.

On March 31, the HW-3 was out of service due to removal of plant compressed air. On June 21, a new compressor, process piping and airline installation was completed and HW-3 was returned to service.

On June 10, the HW-1 flowmeter was cleaned and returned to service. HW-1 recovery during this period was calculated using the average flow rate in 2020 (15,104 gal/day).

Philadelphia Refinery Operations,
a series of Evergreen Resources Group, LLC
LNAPL Recovery System Operational Data
AOI 4: S-30 Remediation System
First Half 2021

Date	LNAPL Recovered in Period (gallons)	Total LNAPL Recovered (gallons)
5-Jan-21	3.9	40,326
13-Jan-21	0.0	40,326
13-Jan-21	0.0	40,326
28-Jan-21	0.0	40,326
5-Feb-21	0.0	40,326
12-Feb-21	0.0	40,326
18-Feb-21	0.0	40,326
24-Feb-21	8.0	40,334
3-Mar-21	0.0	40,334
12-Mar-21	0.0	40,334
15-Mar-21	0.0	40,334
24-Mar-21	0.0	40,334
1-Apr-21	16.2	40,351
8-Apr-21	0.0	40,351
15-Apr-21	0.0	40,351
22-Apr-21	0.0	40,351
30-Apr-21	4.1	40,355
3-May-21	0.0	40,355
11-May-21	0.0	40,355
18-May-21	0.0	40,355
26-May-21	0.0	40,355
4-Jun-21	0.0	40,355
9-Jun-21	0.0	40,355
16-Jun-21	4.2	40,359
21-Jun-21	0.0	40,359

	LNAPL Recovered
First Half 2021	**(gallons)**
Total	**36.4**

NOTES:
LNAPL: Light Non-Aqueous Phase Liquid
There is no groundwater recovery at S-30; it is a product skimming system only. The skimming pump was operated manually on an as needed basis to recover LNAPL during the reporting period.

Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC
AOI 8: Jackson Street Water Curtain
First Half 2021

Date	Water Curtain		
	VOC Readings (ppm)	Benzene Readings (ppm)	LEL Readings (%)
07-Jan-21	0.0	NM	NM
13-Jan-21	0.0	NM	NM
20-Jan-21	0.0	NM	NM
26-Jan-21	0.0	NM	NM
04-Feb-21	0.0	NM	NM
09-Feb-21	0.0	NM	NM
17-Feb-21	0.0	NM	NM
24-Feb-21	0.0	NM	NM
02-Mar-21	0.0	NM	NM
09-Mar-21	0.0	NM	NM
17-Mar-21	0.0	NM	NM
24-Mar-21	0.0	NM	NM
01-Apr-21	0.0	NM	NM
09-Apr-21	0.0	NM	NM
15-Apr-21	0.0	NM	NM
22-Apr-21	0.0	NM	NM
28-Apr-21	0.0	NM	NM
06-May-21	0.0	NM	NM
12-May-21	0.0	NM	NM
17-May-21	0.0	NM	NM
18-May-21	0.0	0.0	0.0
19-May-21	0.0	0.0	0.0
20-May-21	0.0	0.0	0.0
21-May-21	0.0	0.0	0.0
24-May-21	0.0	0.0	0.0
25-May-21	0.0	0.0	0.0
26-May-21	0.0	0.0	0.0
27-May-21	0.0	0.0	0.0
28-May-21	0.0	0.0	0.0
01-Jun-21	0.0	0.0	0.0
02-Jun-21	0.0	0.0	0.0
03-Jun-21	0.0	0.0	0.0
04-Jun-21	0.0	0.0	0.0
07-Jun-21	0.0	0.0	0.0
08-Jun-21	0.0	0.0	0.0
09-Jun-21	0.0	0.0	0.0
10-Jun-21	0.0	0.0	0.0
11-Jun-21	0.0	0.0	0.0
14-Jun-21	0.0	0.0	0.0
15-Jun-21	0.0	0.0	0.0
16-Jun-21	0.0	0.0	0.0
17-Jun-21	0.0	0.0	0.0
18-Jun-21	0.0	0.0	0.0
21-Jun-21	0.0	0.0	0.0
22-Jun-21	0.0	0.0	0.0
23-Jun-21	0.0	0.0	0.0
24-Jun-21	1.2	0.0	0.0
25-Jun-21	0.0	0.0	0.0
28-Jun-21	0.0	0.0	0.0
29-Jun-21	0.0	0.0	0.0
30-Jun-21	0.0	0.0	0.0

NOTES:

LEL: Lower explosion limit

PID: Photoionization detector

ppm: parts per million

NM: Not Measured

VOC: Volatile organic compounds

VOC concentrations are collected using a MultiRAE Lite PID.

Benzene concentrations are collected using an UltraRAE 3000

The system was operational for the reporting period with the following exceptions:

On May 17, water supply to the system was observed to have been terminated during site demolition activities. The system remained out of service for the remainder of the report period and daily monitoring was conducted.

Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC
Groundwater and LNAPL Recovery System Operational Data
AOI 8: PGW Border Remediation System
First Half 2021

Date	Period Total Flow (gallons)	Total Flow (gallons)	LNAPL Recovered in Period (gallons)	Total LNAPL Recovered (gallons)
07-Jan-21	146,760	3,470,770	26.6	3,147
14-Jan-21	80,033	3,550,803	0.0	3,147
21-Jan-21	80,033	3,630,837	0.0	3,147
27-Jan-21	80,033	3,710,870	84.8	3,232
03-Feb-21	44,520	3,755,390	20.8	3,253
09-Feb-21	93,730	3,849,120	34.4	3,287
17-Feb-21	121,990	3,971,110	32.0	3,319
24-Feb-21	83,370	4,054,480	7.3	3,327
02-Mar-21	118,650	4,173,130	7.7	3,334
09-Mar-21	186,730	4,359,860	26.7	3,361
17-Mar-21	163,200	4,523,060	15.4	3,377
24-Mar-21	177,150	4,700,210	11.1	3,388
01-Apr-21	138,950	4,839,160	81.7	3,469
08-Apr-21	161,493	5,000,653	1.9	3,471
16-Apr-21	161,493	5,162,147	18.5	3,490
22-Apr-21	161,493	5,323,640	18.8	3,509
29-Apr-21	154,600	5,478,240	4.7	3,513
06-May-21	115,950	5,594,190	44.9	3,558
12-May-21	103,310	5,697,500	0.0	3,558
20-May-21	134,480	5,831,980	18.2	3,576
27-May-21	112,680	5,944,660	29.2	3,606
02-Jun-21	104,190	6,048,850	26.4	3,632
07-Jun-21	118,330	6,167,180	31.4	3,663
16-Jun-21	138,110	6,305,290	96.7	3,760
22-Jun-21	194,350	6,499,640	7.6	3,768

	Total Flow (gallons)	LNAPL Recovered (gallons)
First Half 2021 Totals	**3,175,630**	**647**

Note:

LNAPL: Light Non-Aqueous Phase Liquid

The PGW Border Remediation System consisting of 31 recovery wells was started on February 20, 2020. Groundwater and LNAPL are extracted using pneumatic pumps, and total fluids pass through an oil/water separator (OWS). The groundwater is discharged to a facility process sewer and LNAPL is recovered in a 550-gallon storage tank and recycled by the Philadelphia Energy Solutions Refining & Marketing LLC (PESRM) facility.

The system was operational for the reporting period with the following exceptions:

On January 7, the system was inoperable due to a high water alarm at the OWS. Maintenance was conducted to the system transfer pump and the system was returned to service.

On January 27, the pumps in RW-207 and RW-216 were inoperable. The pumps were removed for maintenance.

On February 24, the pumps were reinstalled in RW-207 and RW-216, and returned to service. The pump in RW-234 was inoperable and removed for maintenance. The pumps in RW-206, RW-221, RW-222, RW-224, RW-229, and RW-230 were inoperable upon arrival. These pumps were cleaned and returned to service.

On March 2, the pumps in RW-206, RW-215, and RW-216 were inoperable upon arrival. RW-206 and RW-216 pumps were cleaned and returned to service. The pump in RW-215 was removed for maintenance.

On March 9, the pump was reinstalled in RW-215 and returned to service.

On March 17, the pump in RW-216 was inoperable upon arrival. The pump in RW-216 was removed for maintenance.

On March 24, the pump was reinstalled in RW-216 and returned to service.

On June 16, the system was inoperable due to a high water alarm at the OWS. Maintenance was conducted and the system was returned to service.

Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC
Groundwater and LNAPL Recovery System Operational Data
AOI 8: Maiden Lane Remediation System
First Half 2021

Date	Period Total Flow (gallons)	Total Flow (gallons)	LNAPL Recovered in Period (gallons)	Total LNAPL Recovered (gallons)	System Operational Exceptions
11-Jan-21	0	0	0	0	SYSTEM STARTUP
12-Jan-21	6,972	6,972	8	8	
13-Jan-21	18,463	25,435	0	8	
14-Jan-21	18,976	44,411	0	8	
15-Jan-21	14,455	58,866	0	8	System had shut down - high limit float (restricted discharge flow)
18-Jan-21	49,784	108,650	0	8	System had shut down - high limit float (restricted discharge flow)
19-Jan-21	16,347	124,997	0	8	
20-Jan-21	19,182	144,179	0	8	
21-Jan-21	18,508	162,687	0	8	
22-Jan-21	10,694	173,381	0	8	System had shut down - high limit float (restricted discharge flow)
25-Jan-21	23,701	197,082	0	8	
26-Jan-21	17,899	214,981	0	8	
27-Jan-21	14,784	229,765	0	8	
28-Jan-21	18,914	248,679	0	8	
29-Jan-21	18,021	266,700	0	8	
03-Feb-21	38,603	305,303	39	47	System had shut down - Significant snow event 2/1 and 2/2 (rain sensor)
04-Feb-21	15,501	320,804	5	52	
05-Feb-21	17,555	338,359	0	52	
08-Feb-21	18,464	356,823	55	107	System had shut down - high limit float and rain sensor
09-Feb-21	15,782	372,605	20	127	
10-Feb-21	12,845	385,450	42	169	
11-Feb-21	15,316	400,766	37	206	
12-Feb-21	18,668	419,434	92	298	
15-Feb-21	38,217	457,651	127	425	
16-Feb-21	10,504	468,155	0	425	
17-Feb-21	17,939	486,094	64	489	
19-Feb-21	14,270	500,364	77	566	
22-Feb-21	49,983	550,347	141	707	System had shut down - high limit float and rain sensor
23-Feb-21	410	550,757	0	707	Rain sensor still had system shut down from rain on 2/23/21
24-Feb-21	34	550,791	0	707	System shut down for maintenance
25-Feb-21	13,492	564,283	8	715	
26-Feb-21	19,727	584,010	15	730	
01-Mar-21	17,265	601,275	37	767	Rain sensor had shut down system over the weekend
03-Mar-21	23,860	625,135	0	767	System down to change power supply from Hilco/PESRM to PECO
04-Mar-21	17,967	643,102	0	767	
05-Mar-21	16,665	659,767	0	767	
08-Mar-21	36,845	696,612	5	772	
09-Mar-21	15,892	712,504	0	772	
10-Mar-21	18,878	731,382	0	772	
11-Mar-21	18,690	750,072	0	772	
12-Mar-21	16,872	766,944	0	772	
15-Mar-21	51,109	818,053	0	772	
16-Mar-21	15,011	833,064	0	772	
17-Mar-21	8,931	841,995	0	772	System had shut down - high limit float (restricted discharge flow)
18-Mar-21	0	841,995	0	772	System had shut down - rain sensor
19-Mar-21	18,275	860,270	0	772	
22-Mar-21	4,084	864,354	0	772	System had shut down - high limit float (restricted discharge flow)
23-Mar-21	17,817	882,171	0	772	
24-Mar-21	17,921	900,092	0	772	
26-Mar-21	8,573	908,665	0	772	System had shut down - high limit float (restricted discharge flow)
29-Mar-21	11,781	920,446	0	772	System had shut down - high limit float (restricted discharge flow)
02-Apr-21	9,846	930,292	0	772	
05-Apr-21	60	930,352	0	772	System had shut down - high limit float (restricted discharge flow)
06-Apr-21	8,988	939,340	0	772	
07-Apr-21	6,793	946,133	0	772	System had shut down - high limit float (restricted discharge flow)
08-Apr-21	18,846	964,979	0	772	
09-Apr-21	19,125	984,104	0	772	
15-Apr-21	92,970	1,077,074	0	772	
16-Apr-21	20,016	1,097,090	0	772	
20-Apr-21	68,880	1,165,970	0	772	
22-Apr-21	44,710	1,210,680	0	772	System had shut down - high limit float (restricted discharge flow)
23-Apr-21	400	1,211,080	0	772	

Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC
Groundwater and LNAPL Recovery System Operational Data
AOI 8: Maiden Lane Remediation System
First Half 2021

Date	Period Total Flow (gallons)	Total Flow (gallons)	LNAPL Recovered in Period (gallons)	Total LNAPL Recovered (gallons)	System Operational Exceptions
26-Apr-21	55,540	1,266,620	0	772	
28-Apr-21	36,710	1,303,330	0	772	
03-May-21	98,330	1,401,660	99	871	
04-May-21	16,720	1,418,380	164	1035	
05-May-21	15,960	1,434,340	31	1066	
06-May-21	18,930	1,453,270	45	1111	
07-May-21	18,080	1,471,350	59	1170	
10-May-21	49,870	1,521,220	102	1272	System had shut down over weekend - high limit float
12-May-21	39,680	1,560,900	82	1354	
13-May-21	17,570	1,578,470	55	1409	
14-May-21	19,710	1,598,180	60	1469	
17-May-21	51,380	1,649,560	123	1592	
19-May-21	33,300	1,682,860	120	1712	
21-May-21	31,550	1,714,410	116	1828	
24-May-21	40,410	1,754,820	123	1951	
26-May-21	32,500	1,787,320	66	2017	
27-May-21	8,510	1,795,830	28	2045	System off on arrival due to rain sensor
01-Jun-21	27,580	1,823,410	33	2078	
02-Jun-21	20,060	1,843,470	6	2084	
07-Jun-21	40,430	1,883,900	13	2097	System off on arrival due to rain sensor
08-Jun-21	20,430	1,904,330	0	2097	
09-Jun-21	3,090	1,907,420	0	2097	System off on arrival due to rain sensor
10-Jun-21	21,710	1,929,130	0	2097	
11-Jun-21	15,740	1,944,870	0	2097	
14-Jun-21	57,370	2,002,240	70	2166	
15-Jun-21	6,470	2,008,710	6	2172	System off on arrival due to rain sensor
18-Jun-21	45,910	2,054,620	0	2172	
21-Jun-21	49,350	2,103,970	0	2172	
22-Jun-21	18,770	2,122,740	0	2172	
25-Jun-21	57,380	2,180,120	144	2316	
28-Jun-21	42,930	2,223,050	68	2384	

	Total Flow (gallons)	LNAPL Recovered (gallons)
First Half 2021 Totals	**2,223,050**	**2,384**

Notes:

LNAPL: Light Non-Aqueous Phase Liquid

The Maiden Lane Remediation System consists of 1 horizontal well and was started on January 11, 2021. Groundwater and LNAPL are extracted using a diaphragm pump, and total fluids pass through an oil/water separator (OWS). The groundwater is discharged to the Philadelphia Water Department (PWD) sanitary sewer and LNAPL is recovered in two 550-gallon storage tanks.

APPENDIX 2
Laboratory Analytical Data Reports
(electronic copy only; provided on CD included with report)