

Appendix A

DEP Investigations, Cleanups and Monitoring Funded under HSCA

Sites are listed alphabetically by County.

Site Name	Region	County	House	Senate	Threat	Status of Work
ADSCO	SC	Adams	91	33	Groundwater is contaminated with toxic volatile organic compounds (VOCs) from landfill leachate. Private water supply wells are impacted.	DEP is maintaining the residential water supply treatment system, the landfill cap, methane control systems, and the leachate collection and treatment system. An NPDES permit is being obtained for the Site. Currently, iron and manganese appear to be the only two constituents that exceed the Statewide health standard.
Gettysburg Foundry	SC	Adams	91	33	Soil and groundwater are contaminated with salt and metals from the operation of this closed metal smelting facility.	DEP has completed remedial actions at the Site and will periodically monitor groundwater to determine whether contamination levels are declining naturally. DEP recorded land use restrictions on some areas of the property with Adams County in 2013. There has been some interest to use the property for a regional sewage treatment plant or a business park.
JC Cleaners	SC	Adams	91	33	Soil and groundwater are contaminated with toxic volatile organic compounds (VOCs), including tetrachloroethylene (PCE). The contamination threatens a public water supply well.	The pump and treat system remains down since the complete failure in August 2016. Ongoing monitoring of Municipal Well No. 6 shows no change in contamination levels. DEP carried out indoor air quality monitoring at the JC Cleaners facility during the winter months of 2018 and 2019. Analytical results indicate elevated levels of PCE at several areas of the sub-slab and in the indoor air. DEP is currently pursuing alternatives, including, but not limited to vapor mitigation.
Keystone Metals Reduction	SW	Allegheny	33	38	Soils have been contaminated with uranium ore tailings from past radium recovery activities dating back to 1921.	The onsite business owner has not agreed to be temporarily relocated. DEP has decided to re-evaluate potential remedial options that could still be protective of human health and the environment at the Site. DEP has completed a re-evaluation using a numeric model to determine health-based risk at the Site. Based on the results of this re-evaluation, DEP is considering options that would not require demolition of buildings and relocation of the business.
Mazzaro-McKees Rocks Landfill	SW	Allegheny	45	42	Soils and groundwater have been contaminated with toxic volatile organic compounds (VOCs), metals, polychlorinated biphenyls (PCBs) and polycyclic aromatic hydrocarbons (PAHs).	DEP has evaluated remedial alternatives, obtained county health department approval, and prepared an Analysis of Alternative to address additional control of site-derived gases. A lateral trench system design has been chosen to address gas

						migration at the site, as a supplement to the existing gas venting system.
Natrona Heights Gas Odors	SW	Allegheny	33	38	Soils and groundwater are contaminated with toxic volatile organic compounds (VOCs).	DEP investigations into soil and groundwater contamination began in February 2019. Six monitoring wells have been installed and the first round of quarterly sampling revealed VOC-impacted groundwater in the uppermost detected aquifer. Ground Penetrating Radar (GPR) surveys revealed two anomalies near the area of the historic service station onsite. DEP will continue to investigate the site to identify the source, determine the extent of contamination, and establish a cleanup approach.
Beaver Alkali/Pool Doctor	SW	Beaver	16	47	Fire and explosion threats exist due to unknown chemicals at this abandoned site, located inside two buildings that are not safe to enter.	A DEP contractor has been assigned to this Site to begin investigation. This will be a prompt interim response. The goal of the response action is to remove all chemical and soil contamination from the site. However, the building must first be safe to enter by DEP staff and contractors.
CBS-Vanport	SW	Beaver	15	47	Soils and groundwater are contaminated with trichloroethylene (TCE). The contamination threatens the Vanport Township Municipal Authority public water system.	The Responsible Party stopped paying for the operation of air stripping towers at the Vanport Township Municipal Authority's (VTMA) water treatment plant where TCE contamination still exists in the aquifer. DEP began investigation at the Site. Soil and surface water sampling have been conducted and groundwater monitoring wells have been installed in the quarry where sampling will continue through 2019.
Frye Glass Dump	SW	Beaver	14	47	Soil is contaminated with lead and arsenic from an exposed glass dump on a steep ravine above a stream.	Due to its proximity, a landslide that occurred in December 2016, made it necessary to conduct remedial activities concurrently at this Site and the General Alloy Site. Wastes and sediment were removed from McKinley Run in the area of the slide. The stream bank at the toe of the site was lined with rip-rap to prevent further erosion from taking place. No further work is planned.
General Alloy Casting Company	SW	Beaver	14	47	Exposed waste and seeps are contaminated with metals at this abandoned industrial waste disposal area in a steep ravine.	A landslide occurred in December 2016, which altered DEP's remediation plan. This Site was remediated concurrently with the adjacent Frye Glass Dump Site. Wastes and sediment were

						removed from McKinley Run in the area of the slide. The stream bank at the toe of the site was lined with rip-rap to prevent further erosion from taking place. No further work is planned
Kuhn's Landfill	SW	Beaver	14	47	Exposed unknown industrial waste and abandoned drums are present at this former landfill.	DEP issued a Statement of Decision in June 2015. The chosen remedy was to cover the exposed waste and areas that exceed direct contact standards, and to remove and dispose of the gel-type waste. Remediation at the site is complete. Environmental Covenants are now under consideration.
LTV Benzol Tank Area	SW	Beaver	16	46	Groundwater and soils have been contaminated by toxic volatile organic compounds (VOCs).	Site Investigation activities began in 2015. High levels of benzene in wells and soil vapor monitoring points prompted investigation of the nearby residential neighborhood. Due to access issues with the City of Aliquippa, the additional soil and vapor sampling has not been conducted.
Algonquin Chemical	SC	Berks	124	29	Groundwater and soils have been contaminated by toxic volatile organic compounds (VOCs).	In Nov. 2002, DEP removed 115 drums and approx. 4,800 tons of contaminated soil and buried debris from the site. In-situ treatment of the groundwater was initiated in December 2003. Groundwater monitoring is on-going. A review of the 2018 lab reports indicated a slight increase of the residual VOCs. Wells will be sampled on a semi-annual basis for three years followed with a data trend analysis to determine if VOC concentrations are continuing to increase or to stabilize.
DeMarco Landscaping	SC	Berks	130	44	Groundwater is contaminated with tetrachloroethylene (PCE). Several residential wells are impacted.	DEP conducted a Prompt Interim Response to address residential well contamination. All affected residential water supply wells were equipped with Point of Entry Treatment Systems (POETS). A geo-probe soil sampling event was planned for spring 2019 to attempt to locate the source of the PCE. Planning of the waterline extension project that will provide public water to the properties with PCE contaminated wells is on-going. The POETS will then be dismantled.
Mt. Laurel Road Battery	SC	Berks	5	11	Soil is contaminated with lead from battery casings.	DEP completed response actions at the Site, including removal of 3,102 tons of contaminated soil. Environmental Covenants are being placed

						on properties where contamination remains above the cleanup standard.
Noll Lane Battery Casing	SC	Berks	5	11	Soil is contaminated with lead from battery casings.	DEP conducted an Interim Response at the Site. Contaminated soil excavation was completed in October 2017. In December 2018, additional work was conducted to reinforce the drainage swale. As of May 2019, 8 of the 12 required Environmental Covenants have been recorded on properties where contamination exists above the cleanup standard.
Northern Berks County Battery Casings	SC	Berks	124	29	Soil is contaminated with lead from battery casings at three separate properties on Site.	DEP completed the Site Investigation and three areas of contamination were found. Work will include a combination of soil excavation and soil capping to eliminate threats from the contamination. Work is expected to be complete in 2019.
Reading Industrial Scrap (RISCO)	SC	Berks	126	11	Soil is contaminated with toxic metals.	DEP has completed response actions at the Site, including removal of exposed hazardous wastes and excavation or capping of contaminated soils. The required Environmental Covenant was recorded in March 2018. No Further work is planned.
Topton Site	SC	Berks	134, 187	11, 24	Groundwater is contaminated with toxic volatile organic compounds (VOCs). Private water supply wells are impacted.	DEP is maintaining residential groundwater treatment systems and performing groundwater remediation through permanganate injections. Post injection groundwater samples were collected. Lab results continue to indicate modest VOC reductions. Another permanganate injection is planned for the Summer of 2019.
Sayre TCE and PCE	NC	Bradford	110	23	Soil and groundwater are contaminated with trichloroethylene (TCE) and tetrachloroethylene (PCE).	Investigations of groundwater and soil contamination have been ongoing by the property owners and DEP since the 1990s. These investigations have shown that there may be multiple sources of the TCE/PCE contamination. The area is served by public water. The water table is relatively shallow and issues pertaining to vapor intrusion are a potential threat to residents living above the plume. The current property owner has been installing vapor mitigation systems in several homes within the plume as a preventative measure. DEP is developing a work plan for further investigation.

Easton Road PFC	SE	Bucks	143	10	Groundwater is contaminated with Per- and Polyfluoroalkyl Substances (PFAS).	The investigation was initiated in June 2016. DEP found 8 properties with exceedance of the USEPA Health Advisory Level of 70 ppt PFAS. DEP is supplying bottled water to 4 of these properties (4 properties elected to privately install a filtration system). DEP has collected samples from 350 properties. Quarterly sampling of monitoring and residential wells is ongoing. DEP is currently evaluating this data to propose a response action to provide impacted homes with an acceptable source of potable water.
Furlong and Vandor Manufacturing	SE	Bucks	29, 143	10	Groundwater and soils are contaminated with trichloroethylene (TCE). Private water supply wells are impacted.	In November 2017, DEP signed a grant agreement with Doylestown Township to fund a public waterline extension serving the property owners affected by the TCE contamination at the Furlong and Vandor Manufacturing Sites. The waterline was completed in Fall 2018. DEP sampled the monitoring wells in May 2019. The data collected will be used to determine potential future actions at the Site.
Jacksonville TCE	SE	Bucks	178	6	The groundwater is contaminated with toxic volatile organic compounds (VOCs). Private water supplies are impacted.	DEP installed a waterline to 107 affected residences in 2013. Investigations continue to identify the source of the contamination and extent of the plume. In February 2017, DEP sent letters to the owners of the suspected source properties providing them with the opportunity to address the contamination through the PA Land Recycling and Environmental Remediation Standards Act (Act 2). In 2019, PFAS was sampled in select monitoring wells and was not detected in any samples above the USEPA Health Advisory Level (HAL).
Nockamixon TCE	SE	Bucks	143	24	The groundwater is contaminated with toxic volatile organic compounds (VOCs) and 1,4-Dioxane. Private water supplies are impacted.	Environmental Covenants have been recorded at properties where private water filter systems were installed. In 2018, DEP installed vapor intrusion (VI) mitigation systems at two homes. Additional soil and gas sampling is planned to better characterize the area of VI concern. 1,4-Dioxane was detected in two monitoring wells and in three residential wells. DEP has expanded the residential sampling and is currently evaluating the performance of the existing treatment systems for addressing 1,4-Dioxane. Another source area

						may be present and follow up soil sampling is planned.
Perkasie Area TCE	SE	Bucks	145	10	Groundwater in the area is contaminated with trichloroethylene (TCE) from multiple sources. Vapor intrusion is the main pathway of concern.	DEP is currently preparing a report, which will summarize past investigations and evaluate the contributions of the four known TCE source areas to the regional groundwater contamination. In May 2018, DEP issued an Administrative Order to the new owner of the property. After two meetings with the current owner, a consent order and agreement is being negotiated to address the contamination and to settle response costs. DEP is also seeking cost recovery from the previous property owner.
Plumstead Fire	SE	Bucks	143	10	Groundwater is contaminated with toxic metals resulting from a fire. Private wells are impacted.	DEP replaced impacted water supplies and completed soil remediation at the Site. DEP approved the Responsible Party's (RP) Remedial Investigation Report and Cleanup plan in May 2018. DEP signed an agreement with the RP for cost recovery and one final payment is due. No further work is planned.
Railroad Drive TCE	SE	Bucks	29, 178	6	Groundwater is contaminated with trichloroethylene (TCE).	Through a grant from DEP, the Township installed a public waterline to affected residences in June 2017. The highest overall concentrations of TCE were found in wells serving four businesses along Railroad Drive. In 2018, DEP finalized a consent order and agreement with one of these property owners to take their respective property through the Act 2 program and finalized a Perspective Purchaser Agreement with a buyer of one of these properties. DEP sent information request letters to 7 properties nearby Railroad Drive where the highest concentrations of TCE were detected and is evaluating the information to determine potential next steps. In early 2019, select monitoring wells were sampled for PFAS and no detections were found above the USEPA Health Advisory Level (HAL).

Ridge Run PFAS	SE	Bucks	145	10	Groundwater is contaminated with Per- and Polyfluoroalkyl Substances (PFAS).	In 2016, two North Penn Water Authority wells were found to be contaminated with PFAS above the USEPA Health Advisory Level (HAL). 12 wells within a 1-mile radius were also impacted above the HAL. DEP is supplying bottled water to 9 properties and 3 properties treat the water through their own carbon filter. A public hearing was held in July 2018. The Statement of Decision (SOD) was signed in April 2019 selecting the installation of treatment systems for the residential systems combined with restrictions on the use of groundwater. As part of the SOD, DEP will evaluate and install the type of filtration system that is determined to be most effective at addressing the PFAS contamination. In March 2019, DEP conducted soil and surface water sampling. DEP is planning on installing monitoring wells in Summer 2019.
Sellersville Landfill	SE	Bucks	145	10	Soils and groundwater are contaminated with radium 226 and trichloroethylene (TCE).	DEP conducted an Interim Response Action in 1997 to address radium soil contamination. TCE is now the remaining primary contaminant of concern at the Site. The Responsible Party (RP) and the Bucks County Redevelopment Authority (BCRDA) will be taking the Site through Act 2. BCRDA submitted a cleanup plan, which calls for targeted removal of contaminated soils and continued groundwater monitoring. Cleanup is being funded through an Industrial Sites Reuse Program (ISRP) grant. DEP is overseeing the work.
Tamenend PCE	SE	Bucks	143	10	Groundwater is contaminated with toxic volatile organic compounds (VOCs). Private water wells are impacted.	DEP completed an interim response action to provide treatment systems for private wells affected at the Site and continues investigation to determine the responsible party for the contamination. DEP completed the residential well sampling program in 2018 and plans to abandon the monitoring wells on Site.

Bear Creek Chemical Site	NW	Butler, Armstrong	11, 63, 64	41	Groundwater and soils are contaminated with resorcinol and sulfonic acids. Private water wells and a public water system were impacted. Contamination has been detected in streams throughout the disposal area.	Operation and Maintenance (O&M) activities occurred at the Kelly Farm Disposal area in the summer of 2018. O&M activities are planned for the summer of 2019 at the Apple Road Site. No additional remediation work is planned at this time. Cost recovery from responsible parties and settlement options are currently being evaluated.
Franklin Glass	NW	Butler	11	21	Residential and recreation area soils are contaminated with arsenic from a glass manufacturing facility.	DEP completed an interim response to address contamination in the stream in September 2013. DEP continues to monitor the Site for vegetation and erosion issues.
Shaler JTC	NW	Butler	64	41	Soils and groundwater are contaminated with toxic volatile organic compounds (VOCs) and metals.	DEP previously completed soil and waste remedial actions and is now monitoring the remaining contaminated groundwater at the Site and determining the effectiveness of the remedy. The Annual Post Closure Monitoring Report was finalized in March 2019.
Quehanna Wild Area Waste Dump Sites	NC	Cameron, Clearfield, Elk	67, 73, 75	35, 25	Low-level radiological wastes were disposed of in the Wild Area.	DEP installed monitoring wells, is investigating groundwater contamination and is evaluating the data.
Phillipsburg Rod and Gun Club (PRGC)	NC	Centre	77	34	Groundwater, surface water and soils are contaminated with toxic metals.	PRGC and DCNR have reached a legal agreement, with the PRGC agreeing to vacate their lease. Now that a legal agreement has been reached, the remediation of the property can be re-evaluated. Since it has been a number of years since the previous cost estimate/feasibility study was conducted, the region is proposing that a new analysis of alternatives and cost estimate be completed. Originally the Secretaries of DCNR and DEP agreed to split remediation costs 50/50, so both agencies may need to approve any remediation budget.

Quality Service Cleaners	SE	Chester	13	19	Groundwater and soils are contaminated with toxic volatile organic compounds (VOCs). A private well and municipal supply well are affected.	DEP permanently replaced impacted water supplies, which include a private well and municipal supply well, and completed soil excavation in 2016. DEP is currently conducting quarterly groundwater monitoring but plans to turn the monitoring wells over to the property owner. During the winter of 2017 and 2018, DEP collected indoor air samples from 3 nearby homes and no properties were determined to be impacted by vapor intrusion (VI). An Environmental Covenant may be necessary for the former dry cleaner property to prevent groundwater use and to address the VI pathway when redevelopment occurs.
Griffin Property Home Heating Oil (HHO) Release	NC	Clinton	76	25	Soil and groundwater are contaminated with home heating oil.	Three vacuum extraction events took place in the Fall of 2018. Impacted groundwater was removed from the interceptor trench, which has since been decommissioned. Two rounds of indoor air sampling took place during the 2018/19 winter heating season and the indoor air risk assessment has been completed. DEP is working with the current property owner to place an environmental covenant on the property.
Karnish Industries	NC	Clinton	76	25	Soil is contaminated with radiological materials from the prior use of the Site as a radium paint instrument repair facility.	Excavation of the concrete slab and the contaminated soil underneath was completed in July 2018. Restoration of the Site, including backfilling with topsoil and seeding was completed in September 2018. The Site remedial action is complete. No further work is planned.
Lock Haven Laundry	NC	Clinton	76	25	Soil and groundwater are contaminated with toxic volatile organic compounds (VOCs).	In 2018, monitoring wells with co-located soil vapor points were installed and sampled to further assess groundwater characterization and vapor intrusion exposures. Sampling results indicated detections of VOCs so, in early 2019, additional monitoring wells with co-located soil vapor points were installed. Data evaluation is ongoing to determine if any vapor exposure pathways exist for any off-Site properties.

Schiller Site	NW	Crawford	6	50	Soil and groundwater are contaminated with toxic volatile organic compounds (VOCs) and metals.	DEP previously completed soil and groundwater remedial actions and continues to monitor treatment systems installed on private residential wells. The property was purchased and an agreement was signed to settle DEP's lien on the property. DEP continues to monitor the effectiveness of remedial actions. An Environmental Covenant was placed on the property with land use and groundwater use restrictions.
Allen Road	SC	Cumberland	193, 199	31, 30	Groundwater is contaminated with toxic volatile organic compounds (VOCs). Private water supplies are impacted.	DEP completed the investigation, installed residential water treatment systems and turned the systems over to the homeowners. DEP abandoned all monitoring wells except one that remains for the property owner. Environmental Covenants will be placed on the properties.
Ridgway Borough Municipal Landfill	NW	Elk	75	25	Soil and groundwater are contaminated with toxic volatile organic compounds (VOCs) and metals.	DEP held a meeting in June 2018 with representatives from the Responsible Parties to discuss necessary remedial actions to close out the landfill. A contractor for the Responsible Parties conducted a preliminary feasibility investigation of soils found on Site that could be used as soil cover for closure of the landfill. DEP is working with the Borough on an agreement to settle liability and inability to pay for the remedial cleanup and landfill closure.
Corry Avenue A Landfill	NW	Erie	4	50	Soil is contaminated with metals, arsenic and benzo(a)pyrene and have potentially migrated to the groundwater, adjacent wetlands, and two nearby creeks.	The Site was used as a disposal facility for industrial, municipal and demolition wastes from the 1940s until the late 1980s by various owners. Over one hundred (100) deteriorating 55-gallon drums, exposed wastes and scrap metal were observed. DEP conducted soil sampling in 2015 which showed the presence of: arsenic, nickel, chromium, cobalt, lead, and benzo(a)pyrene. DEP began Site investigation work in May 2019.

Currie Landfill	NW	Erie	3	49	Soils, groundwater and surface water are contaminated with toxic volatile organic compounds (VOCs).	DEP completed a Remedial Action at the Site. Consolidation of wastes and cleanup of the stream was completed in October 2013. The Site was turned over to the Millcreek Youth Athletic Association for use as athletic fields. DEP is working with the Township to address the UPS property that has not been properly characterized. The Department is currently conducting annual groundwater sampling on the Site.
Filmore	NW	Erie	3	49	Soils, groundwater and surface water are contaminated with metals.	DEP completed site cleanup. Contaminated soil was excavated, isolated, and covered with two feet of clean soil and vegetation. DEP installed one additional monitoring well and completed groundwater sampling in the Summer of 2017. Property maintenance and groundwater monitoring is ongoing.
Lake City VOC	NW	Erie	17	49	Groundwater is contaminated with trichloroethylene (TCE). Public water supply wells are potentially threatened.	DEP is conducting an investigation of the Site. Findings from the investigation indicate the TCE plume continues to expand vertically and horizontally to the northwest. DEP is evaluating the recommendation to conduct indoor air sampling to determine if the nearby residents are impacted.
Presque Isle Chemical	NW	Erie	3	50	Soils and groundwater are contaminated with toxic volatile organic compounds (VOCs) and polychlorinated biphenyls (PCBs) from a defunct waste processing operation. Private water supplies were impacted.	DEP completed remedial actions for the soil and groundwater contamination. DEP is operating the groundwater remediation system. Monitoring wells are sampled annually. DEP conducted indoor air and sump water sampling for two nearby residences in 2016 and 2018. Results of the sampling show contamination below cleanup standards.
Tomstown TCE	SC	Franklin	90	33	Groundwater is contaminated with trichloroethylene (TCE). Private water supply wells are impacted.	DEP issued a grant to Quincy Township to design and install a public water supply system at the Site. The distribution system and connections were completed in December 2016. DEP implemented the monitoring plan to track the groundwater contamination plume in the summer of 2018. Well abandonment still needs to occur.
Waynesboro TCE	SC	Franklin	90	33	The groundwater and soils are contaminated with trichloroethylene (TCE). Private water supplies wells are impacted.	The waterline extension has been completed and all affected residences are connected to the borough's public water supply. Washington Township notified DEP that all work to be carried

						out under the grant agreement was completed as of August 2018. An additional investigation will be conducted to determine the current and future impact to human health from contamination associated at the Site.
Punxsutawney Groundwater	NW	Jefferson	66	25	Soils and groundwater are contaminated with volatile organic compounds (VOCs), toxic metals and cyanide from prior electroplating activities.	Due to the ongoing presence of the contaminated plume, DEP conducted two vapor intrusion studies in June 2018 and January 2019. The results narrowed down the area of investigation and five homes participated in an Indoor Air Quality (IAQ) study in January and March of 2019. All samples came back below DEP's IAQ screening limits. DEP continues to monitor the groundwater.
Marjol Battery	NE	Lackawanna	112	22	Site is contaminated with lead and other toxic metals from prior waste disposal practices.	The facility is under federal hazardous waste corrective action. DEP provided oversight of the final action at the Site. Wastes were consolidated and capped on-site. DEP conducted the annual cap inspection in November 2018 and found the Site in good condition. Operation & Maintenance activities are on-going. A groundwater sampling event is scheduled for the summer 2019.
Torch Lumber Mill	NE	Lackawanna	114	22	Site is contaminated with creosote and other wood preservative materials from previous operations.	DEP completed removal of contaminated soils in 2015. DEP is currently conducting site characterization activities to delineate the extent of contamination. DEP also began attempts for cost recovery from the Responsible Party (RP).
Winship Road	NE	Lackawanna	118	22	Groundwater is contaminated with toxic volatile organic compounds (VOCs) from illegal waste disposal.	DEP completed response actions, which included removal of wastes and contaminated soil and installation of residential water supply treatment systems. DEP is currently monitoring and maintaining the residential treatment systems. Environmental covenants are being considered for contaminated properties.
Berkley Products Plant	SC	Lancaster	43	36	Groundwater and soils are contaminated with toxic volatile organic compounds (VOCs). The contamination has caused indoor air in nearby residences to be contaminated above health-based levels. Contaminated groundwater is discharging to a nearby stream.	In 2018, DEP performed the initial round of full-scale in-situ chemical oxidation (ISCO) groundwater injections. Favorable VOC reduction results were achieved. Additional groundwater sampling was conducted in winter 2019 and the second full-scale ISCO groundwater injection occurred in May 2019. Post-injection groundwater sampling will be conducted to determine resulting VOC levels.

Conestoga Pines Park	SC	Lancaster	96	13	Groundwater and surface water are contaminated with toxic volatile organic compounds (VOCs).	A VOC aeration system was installed in the stream in April 2014. DEP is currently examining the economic feasibility of converting the stream aeration system to solar power with a battery backup. The Site O&M inspections have been reduced from four times per year to three times per year.
Intercourse TCE Site	SC	Lancaster	100	13	Groundwater and soils are contaminated with trichloroethylene (TCE). Private water supply wells are impacted.	DEP will provide a public water supply for the town of Intercourse. The first contract to install the distribution piping was completed in January 2018. The second contract for the treatment plant, water tower, and service connections is underway. The treatment plant has been constructed, the water tower has been installed and the service connections are expected to continue through May 2020.
Raymark Lower Mill Landfill	SC	Lancaster	37	36	Waste contains toxic metals and asbestos.	DEP completed waste removal and grading and capping of the landfill in 2005. DEP continues to perform O&M to maintain the landfill cap, including mowing and inspection for ruts. During the winter months, work was conducted to prevent groundhogs from returning.
Remacor	NW	Lawrence	10	47	Site is contaminated with flammable materials, toxic metals and radiological materials.	In February 2018, DEP issued an Analysis of Alternatives for an interim response to include building demolition. Plans were completed in February 2019, demolition activities began in March 2019 and are ongoing. Building material is being separated by type and measured for radioactivity for proper treatment and disposal. All non-radiologically impacted concrete/masonry material is being crushed and left on-site for future fill or remedial actions. As of May 2019, eight (8) buildings have been demolished. DEP has requested EPA's assistance to complete subsurface remediation utilizing dedicated funding collected through cost recovery settlements with Site Responsible Parties.

High Quality Plating	NE	Lehigh	131	16	Groundwater is contaminated with toxic volatile organic compounds (VOCs). Private water supply wells are impacted.	DEP is monitoring and maintaining the residential water supply treatment systems and is monitoring the effects of the injections and recirculation on groundwater quality. Recirculation work and the first post-injection monitoring event began in October 2018. Residential and monitoring well preliminary sample results in May 2019 show large decreases in chlorinated solvents.
Lower Broadway	NE	Luzerne	119	14	Groundwater and soils are contaminated with metals, PCBs, toxic volatile organic compounds (VOCs), and semi-volatile organic compounds (SVOCs).	In 2011, Nanticoke City conducted an environmental site assessment at this former dump and junk yard, which revealed metal, PCBs, and SVOCs contamination. The City's attempts at an Act 2 cleanup stalled despite DEP's repeated attempts to assist. In March 2017, the Site was selected as a Brownfields to Playfields pilot project and DCNR awarded a grant to the City. DEP conducted a site investigation in 2018 that included: a land survey, brush clearing, and soil sampling. The volume of soil contaminated is significantly higher than anticipated. Two ponds on the Site were noted to have a sheen and odor. This was referred to UGI to be included in their contaminant stabilization efforts related to the former manufactured gas plants. Results of the February 2019 pond surface water samples revealed VOC contamination. In March 2019, a boom was deployed to contain the VOCs. Continued sampling and a work plan are expected in the Summer of 2019.
Mid Atlantic Coast Delivery	NE	Luzerne	119	14	Soils and groundwater are contaminated with metals, toxic volatile organic compounds (VOCs) and polychlorinated biphenyls (PCBs).	DEP sampled the groundwater and soils and found metals in the soils above cleanup levels. The property was purchased at a sheriff's sale in 2015. A meeting was held in March 2017 with the new property owner to discuss the site requirements. The owner did not submit a work plan. DEP issued an order in May 2018. The owner filed an appeal with EHB in June 2018. DEP sent an access agreement to the property owner to allow DEP access to complete necessary work at the Site and withdraw their legal appeal. The agreement was executed in August 2018. DEP's contractor completed a file review and will

						conduct a site walk through and draft a scope of work for the Site.
TP Corporation	NE	Luzerne	118	22	Site contains wastes from an abandoned paint/coating facility.	In July 2018 the following work was completed: decommissioning of the power lines, removal of the thermal oxidizer and supports, abandonment of monitoring wells, asphalt removal, excavation, and sampling of the excavation soil. Removal of the contaminated soil was completed in November 2018. The site was backfilled and graded with clean fill and gravel. DEP filed a HSCA 512 Order in March 2019 with Luzerne County for the Site instead of an Environmental Covenant. The property was purchased in April 2019. DEP will meet with the new owner about the HSCA 512 Order. No further work is planned.
Valley View Wood Products	NE	Luzerne	116	27	Abandoned demolition waste contains lead. Soils are contaminated with lead.	DEP is developing an Analysis of Alternatives. There have been inquiries about purchasing the property and remediating the Site. Potential Responsible Parties are being investigated.
Rose Valley Lake TCE	NC	Lycoming	84	23	Groundwater is contaminated with trichloroethylene (TCE).	Water supply treatment systems were installed on six homes in May 2018 and the drinking water is regularly sampled to ensure effectiveness of the systems in removing TCE. Further sampling indicate that the source of the contamination may be isolated to the soil of the yard that has historically shown the highest TCE concentrations. Monitoring wells were installed to fully characterize the groundwater plume.
C.G. Wood	NW	Mercer	17	50	Groundwater is contaminated with toxic volatile organic compounds (VOCs).	DEP completed facility demolition and contaminated soil removal. In 2005, DEP entered into a consent order & agreement with the current owner that places limitations on the Site. Groundwater, surface water and sediment contamination remains at the site. DEP has been performing operation and maintenance activities since 2012.

Yahas Dump	NE	Monroe	176	40	There are abandoned drums and containers with unknown contents on-Site. Soils, surface water and potentially groundwater are contaminated with toxic metals and volatile organic compounds (VOCs). Waste materials are encroaching on the stream.	DEP's interim response actions at the Site are complete. Dry Saw Mill Run is now protected from further degradation, the Site is fully vegetated and stable, and the Army Corp of Engineers' stream permit is satisfied. DEP will continue Site inspections and periodic Operation and Maintenance until the property owner takes over the responsibilities. Environmental Covenants will be implemented to protect the remedy.
Alderfer Landfill	SE	Montgomery	53	12	The Site is contaminated with toxic volatile organic compounds (VOCs), including radiological materials.	In 1993, DEP initiated response actions which included the installation of a soil cap, stone-filled wire gabions along the side of the landfill that abutted the creek, and the creation of two vaults on-Site for the relocation of radioactive thorium-232. DEP is negotiating with the former owner's estate to establish an Environmental Covenant to ensure continued maintenance of the landfill cap and sampling of the onsite MWs, and a Mortgage lien for past costs incurred.
Boyertown Landfill	SE	Montgomery	147	24	Methane from the abandoned landfill threatens to migrate off-Site and impact nearby residences.	DEP is maintaining the methane extraction system installed in October 2003. The Responsible Party Group has installed wells to address data gaps in the monitoring well network and is developing a final plan for closure and long-term operation and maintenance of the Site. In May 2019, DEP sampled the landfill leachate for PFAS.
Cook Technologies	SE	Montgomery	147	24	Groundwater is contaminated with toxic volatile organic compounds (VOCs), including tetrachloroethylene (PCE). Private water supply wells are impacted.	Twenty private water wells have substantial detections of PCE, warranting continued carbon filter treatment. The Responsible Party (RP) is sampling those homes, performing filter maintenance as needed, and sampling the 5 monitoring wells at the Site to track PCE levels. These responsibilities are outlined in a consent agreement, which was finalized in May 2017. DEP is overseeing the RP's work.
Hoff VC	SE	Montgomery	147	24	Groundwater is contaminated with toxic volatile organic compounds (VOCs). Private home wells are impacted.	In 2014, 27 properties were connected to a public waterline. Vapor Intrusion was assessed and found not to be an issue. In 2016, DEP initiated a Prompt Interim Response to remove contaminated soil and the waste from a concrete pit. In 2018, DEP initiated an in-situ remediation pilot study to

						address remaining groundwater contamination, which included the installation of two monitoring wells near the concrete pit.
Landis Creek	SE	Montgomery	146	44	Groundwater is contaminated with toxic volatile organic compounds (VOCs). Private water supply wells are impacted.	In 2016, DEP installed carbon filtration systems at six homes affected by contamination. Systems have since been turned over to property owners. Environmental Covenants have been placed on those properties. The Responsible Party (RP) is currently performing a remedial investigation under Act 2.
Macoby Creek	SE	Montgomery	131	24	Groundwater is contaminated with toxic volatile organic compounds (VOCs). A private water supply well is impacted.	DEP demolished the on-site building and removed contaminated soils in 2008. DEP also installed a carbon filtration system on the one residential property found to be contaminated. DEP is monitoring and maintaining the treatment system. DEP completed in-situ treatment of groundwater in 2016 and 2018, which decreased the concentrations of VOCs. In March 2019, DEP completed a comprehensive round of monitoring well sampling. DEP is currently reviewing the most recent groundwater sample results to determine next steps.
Midfield VOC	SE	Montgomery	151	12	Groundwater is contaminated with toxic volatile organic compounds (VOCs). Private home wells are impacted.	The previously installed waterline extension was turned over to the Horsham Water and Sewer Authority in January 2018. A consent agreement with the Responsible Party was signed in May 2017 to take the Site through Act 2. The Agreement also included a settlement for this Site and the Limekiln PCE Site. The Final Report was approved in December 2017. An Environmental Covenant was recorded on the property. No further work is planned.
Valley Forge Asbestos Release	SE	Montgomery	149	17	Soil is contaminated with waste asbestos from former industrial activities next to the Site. Soil is also contaminated with metals and polycyclic aromatic hydrocarbons (PAHs).	The National Park Service (NPS) determined that the commonwealth was a Responsible Party for the Site since disposal of asbestos wastes had been authorized when the Site was a State Park. The NPS is conducting the removal and DEP pays its share of the costs. In 2015, DEP was notified that more contamination was found and additional removal actions were required at the Site. Waste removal continued through November 2017. The

						Final Remedial Action Closure Report is being prepared by the NPS. No further work is planned.
Zieglerville TCE	SE	Montgomery	147	24	Groundwater and soils are contaminated with trichloroethylene (TCE). The contaminated groundwater threatens a public supply well.	DEP performed two interim response actions in the mid-1990s to extend a waterline to affected homes and to clean up the soil hotspot area. DEP is monitoring the remaining groundwater contamination and, based on the decreasing trends, plans to close out the Site activities. Monitoring wells will require abandonment.
American Fuel Harvesters	NE	Northampton	137	40	Site is contaminated with lead waste disposed by a defunct demolition waste processing facility.	DEP previously completed remedial actions at the Site in 1999. DEP is maintaining the landfill cap. Monitoring well sampling was conducted in October 2018. Based upon these results, which were below standards, and the trends in the wells, DEP abandoned the monitoring wells in January 2019.
Herceg Landfill	NE	Northampton	138	40	Groundwater is contaminated with volatile organic compounds (VOCs) and inorganic metals. A private water supply well is impacted.	DEP is monitoring the impacted private wells and maintaining the residential water treatment systems installed in 2005 and 2009. DEP is operating the leachate treatment system, conducting annual sampling, and operation and maintenance activities. A biological treatment remedy for the ammonia discharge was approved. Results of the study showed ammonia levels below the cleanup standard.
Port Richmond Gate	SE	Philadelphia	177	5	Soil at the Site is contaminated with toxic inorganic compounds.	In 2011, DEP excavated and capped contaminated soils and implemented land use restrictions via Environmental Covenants at 50 properties. During the Fall of 2017, a consent agreement was finalized to settle past response costs with a developer. In the spring of 2018, a separate settlement was reached with another developer. In December 2018 and January 2019, DEP issued HSCA 512 orders to address four properties where owners refused to sign environmental covenants.
Crown Industries	NE	Pike	139	20	Groundwater and soils at this Site have been contaminated with toxic volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs) and dioxins. Private water supplies were impacted.	DEP performed response actions to provide potable water to affected residences and excavate wastes and debris from the Site. Negotiations with the quarry owner to take over operation and maintenance (O&M) responsibilities are on-going. The quarry owner conducted a full round of sampling in January 2018 and the results

						indicated that well sampling needs to continue. Well sampling is scheduled for the Summer of 2019.
Ashland Metals	NE	Schuylkill	123	29	Soils are contaminated with lead and toxic metals from a defunct battery and metal recycling operation.	DEP has completed remedial actions at the Site and continues to monitor the Site and maintain the landfill cap. A scope of work for operation and maintenance (O&M) activities was submitted in May 2018. O&M is on hold pending potential purchase of this Site and the Giordano Waste Materials Site.
Coaldale MGP	NE	Schuylkill	124	29	Soils are contaminated with coal gasification waste consisting of volatile and semi-volatile compounds.	DEP is proposing a limited removal action and an Environmental Covenant to limit the use of sub-grade soils and groundwater. DEP is reviewing the updated Site characterization report submitted in November 2018 and evaluating next steps based upon the risk analysis.
Giordano Waste Materials	NE	Schuylkill	123	29	Soils are contaminated with metals.	DEP installed a soil cap to prevent exposure and is monitoring and maintaining the cap. Semi-annual inspections of the cap are conducted. A scope of work for operation and maintenance (O&M) activities was submitted in May 2018. O&M is on hold pending potential purchase of this Site and the Ashland Metals Site.
Mahanoy City MGP	NE	Schuylkill	123	29	Soils are contaminated with coal gasification waste substances.	DEP completed the site investigation. The proposed action for the Site is source removal, capping of remaining contamination, and an environmental covenant to prevent disturbance of the area. DEP is negotiating a consent agreement with the Responsible Party to perform the post removal operation and maintenance. An agreement is drafted and will be sent to the property owner.
Schuylkill Haven MGP	NE	Schuylkill	125	29	Groundwater and soils are contaminated with coal gasification waste substances. Contaminated groundwater is discharging to nearby streams and there is a threat of vapor intrusion into nearby buildings.	DEP completed the investigation and prepared an Analysis of Alternatives to address the soil and groundwater contamination. The proposed response includes installation of an armored cap over the coal tar seep area and an Environmental Covenant to prevent disturbance of the area. A field inspection occurred in December 2018.
Former Erie Railyard	NE	Susquehanna	111	20	Groundwater and soils are contaminated with coal gasification waste substances.	The Site was selected as a Brownfields pilot project by a joint DEP/DCNR/DCED taskforce. Hydroseeding was done in June 2018 and grass

						growth is proceeding well on site. The on-Site Oakland Dam is in preparations for removal. The Borough is bidding out construction work for the fence, walking trail, and lighting for the future Ira Reynold Riverfront Park.
Laurel Lake PCE	NE	Susquehanna	111	23	Groundwater is contaminated with toxic volatile organic compounds (VOCs). Private water supply wells are impacted.	Water treatment systems were installed in the affected homes. Monitoring wells are being retrofitted and then sampling will occur on the homeowners' wells and the monitoring wells.
Keystone Castings	NW	Venango	64	21	Groundwater and soils are contaminated with metals.	A foundry was operated on Site in the 1970s. Land uses prior are unknown. DEP Waste Management became aware of the Site in 1982 when piles of foundry sand and leachate seeps were discovered. Numerous DEP, EPA, and property owner sampling events have taken place. The latest DEP sampling in 2016 found metals in exceedance of the Statewide health standard and confirmed high alkaline leachate. A Response Justification Document was approved in August 2018 and a work plan is currently under review.
Laing Landfill	NW	Venango	64	21	Soils are contaminated with metals, semi-volatiles (SVOCS), polycyclic aromatic hydrocarbons (PAHs), PCBs, and pesticides. Surface water is contaminated with metals and endosulfan insecticide.	The Landfill Site operations began in 1975 and were ceased in 1987 due to violations leading to the Solid Waste Permit being suspended. DEP conducted an Interim Response in 1996 to address drums and bulk asbestos at the Site and monitoring wells were installed. A Site inspection completed in May 2018 documented that drums and piles of wastes, including metals and tires, still exist on the Site. It is unknown if contamination continues to exist. A Site investigation is necessary to asses any potential risks. DEP is currently reviewing a work plan.
Venango County Park	NW	Venango	64	21	Soils are contaminated with Lead, arsenic, chromium, cadmium, cobalt, vanadium.	The Site is an inactive, unlined landfill that is heavily vegetated with unrestricted access. In 1995, DEP sampled soil at the Site and found lead, arsenic, chromium, cadmium, cobalt, and vanadium above Statewide health standards. DEP is now finalizing a Response Justification Document and has been working with a contractor to complete a work plan for further Site investigation.

American Zinc Company Site	SW	Washington	46	46	Surface piles and soil are contaminated with lead, zinc and arsenic from waste generated by a former zinc smelter.	DEP signed two mixed-funding consent agreements with the Responsible Party (RP). DEP agreed to pay for 40% of the Site investigation, cleanup plan, and remediation costs. The investigation and cleanup plan are complete. DEP continues to evaluate damages in connection with the RP's Natural Resource Damage Assessment. The RP voluntarily sampled residential yards in the affected area and excavated and replaced soils that were contaminated above the standards.
Lakeside PCE	NE	Wayne	111	20	Groundwater is contaminated with toxic volatile organic compounds (VOCs). Public and private water supply wells are impacted.	DEP is monitoring private residential water supply treatment systems installed in 2006. The homeowners have agreed to conduct the operation and maintenance of their treatment systems. Environmental Covenants are being prepared for the properties with groundwater contamination.
Everglade Scrap Yard	SW	Westmoreland	57	39	Soil and groundwater are contaminated with polychlorinated biphenyls (PCBs), dioxin and toxic volatile organic compounds (VOCs) at this abandoned scrap yard. Private water supply wells are impacted.	DEP is maintaining the previously installed soil cap and sampling the groundwater. Sampling results were received, and it was determined that no additional impacts to residential wells were found. No further work is planned.
Harhai Landfill	SW	Westmoreland	59	39	There are allegations of industrial waste disposal at this abandoned landfill located in an area of private water supply wells.	Site characterization is complete. DEP has approved the Final Remedial Investigation Report. The onsite groundwater monitoring wells were abandoned in June 2018. No further work is planned.
Deardorff Drive/Ridge Road	SC	York	92	48	Groundwater is contaminated with toxic volatile organic compounds (VOCs), including tetrachloroethylene (PCE). Private water supplies were impacted.	DEP replaced private wells with public water through a grant to the Planning Commission in 1992. DEP conducted a vapor intrusion study in 2010 and found no impact to properties at the Site. Groundwater sampling is conducted every two years to monitor the plumes. A site sampling event was completed in February 2018 and it was determined that the site groundwater and surface water PCE/VOC contamination levels are essentially stable. There are several EPA installed wells on-site with the potential to be abandoned.

Industrial Solvents and Chemical Company	SC	York	92	48	Groundwater and soils are contaminated with volatile organic compounds (VOCs). Private water supply wells were impacted.	DEP replaced impacted private water supplies and completed remedial actions for waste and soil contamination. DEP installed vapor mitigation systems in August 2008. Deed Notifications have been recorded with the York County Recorder of Deeds. DEP will carry out an overall assessment of the site to determine if the site meets Act 2 cleanup standards and whether additional remedial action is necessary.
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Key:	
Region	SE - Southeast Region SC - South-central Region SW - Southwest Region NE - Northeast Region NC - North-central Region NW - Northwest Region