APPENDIX D

GEOTECHNICAL EVALUATION REPORT BY S&ME, 56 PAGES

PHASE 1 ENVIRONMENTAL SITE ASSESSMENT BY S&ME – 243 PAGES

Geotechnical Exploration
Grener Property – Multi-Use Sports Complex
Hilliard, Franklin County, Ohio
S&ME Project No. 1117-18-041

PREPARED FOR:

City of Hilliard
3800 Municipal Way
Hilliard, OH 43026

PREPARED BY:

S&ME, Inc.
6190 Enterprise Court
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February 8, 2019

February 8, 2019

City of Hilliard
3800 Municipal Way
Hilliard, OH 43026

Attention: Mr. Clark A. Rausch, P.E.

Reference: **Geotechnical Exploration**
Grener Property – Multi-Use Sports Complex
Hilliard, Franklin County, Ohio
S&ME Project No. 1117-18-041

Mr. Rausch:

In accordance with our proposal dated September 26, 2018, which was executed fully on October 12, 2018, S&ME, Inc., (S&ME) has completed a geotechnical exploration at the site located north of Heritage Trail, between Cosgray Road and Leppert Road, in Hilliard, Ohio. The approximate site location is depicted on the Vicinity Map presented as Plate 1 in the Appendix of this report. Our observations and recommendations associated with this geotechnical exploration are herewith submitted.

We appreciate having been given the opportunity to be of service on this project. If you require additional assistance or have any questions, please feel free to contact our office.

Respectfully,

S&ME, Inc.

STATE OF OHIO
NATHAN DANIEL ABELE
E-76734
REGISTERED
PROFESSIONAL ENGINEER

Nathan D. Abele, P.E.
Project Engineer

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Submitted: 1 Electronic Copy via e-mail

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1.0 Executive Summary

Based on the Site Rendering plan (Plate 2B of the Appendix) dated September 7, 2018, and provided to our office, S&ME, Inc. (S&ME) understands that the City of Hilliard is planning improvements to a 116-acre parcel between Cosgray Road and Leppert Road, north of Davidson Road and south of the Bo Jackson Elite Sports facility. The proposed site will be a multi-use sports complex consisting of 12 natural turf fields, 2 high-performance natural turf fields, 4 synthetic turf fields, 1 miracle league field, 3 single-story masonry concession/restroom buildings, 1 pre-engineered maintenance building, 2,000 parking spaces, walking trails, sports field lighting, storm water management, irrigation, and associated site utilities, including a +/- 35-foot deep trunk sanitary sewer. The 3 concession/ restroom buildings range in size from approximately 1,700 s.f. to 3,750 s.f., and the pre-engineered maintenance building is anticipated to be approximately 7,500 s.f.. The site recently was an agricultural field.

The twenty-two (22) borings were extended to depths ranging from approximately 15 to 40 feet below the existing ground surface and initially encountered 3 to 11 inches of rootmat/topsoil. A layer of possible topsoil or stained clay was encountered below the rootmat/topsoil in many of the borings. Beneath the surficial soils, the borings encountered stiff to hard cohesive soils (silty clay or clayey silt). Isolated zones of medium-stiff cohesive or medium-dense to very-dense granular soils (silt, sand and gravel) were noted in a few of the borings. Cobbles and/or boulders were noted in many of the borings at varying depths. Auger or sampler refusal was noted on hard glacial till in the deeper borings. Possible existing fill was noted in two of the borings (B-18 and B-19) extending to depths of approximately 5 to 11 feet.

During drilling, seepage or groundwater was observed in Borings B-13, B-18, B-20, and B-22, at depths ranging from approximately 1 to 35 feet below the existing ground surface. Upon the completion of drilling, groundwater was measured in Borings B-4, B-7, B-13, B-20, and B-22 at depths ranging from approximately 4 to 29 feet. The remaining borings were noted as "dry" meaning no measurable amount of water had accumulated in the bottom of the boring. See Section 5.2 for additional information on groundwater level measurements, including extended water levels.

The following are recommendations that are discussed in detail in the subsequent sections.

- Section 6.2 of this report presents discussion and recommendations for deeper utilities.
- A maximum allowable bearing pressure of 3,000 pounds per square foot (psf) may be used for design of spread foundations bearing in competent natural stiff to hard cohesive soils (silty clay or clayey silt), or newly placed, properly compacted, engineered fill. Additional details and foundation recommendations are described in Section 6.3.3.
- Based on information obtained from the borings, a Seismic Site Classification of D per the 2017 Ohio Building Code should be used for this site.
- Concrete floors may be designed as slabs-on-grade utilizing a Modulus of Subgrade Reaction of 100 pounds per cubic inch (pci).
- A CBR (California Bearing Ratio) value of 3 percent may be used for the design of pavements.
- Recommendations for permanent retention pond construction are presented in Section 6.5.
- Groundwater control for deep utility installations (i.e., deep wells) is presented in Section 6.2.5 and for shallow foundation installation in Section 6.3.6 (i.e., sumps and pumps).

2.0 Introduction

Based on the Site Rendering plan (Plate 2B of the Appendix) dated September 7, 2018, and provided to our office, S&ME, Inc. (S&ME) understands that the City of Hilliard is planning improvements to a 116-acre parcel between Cosgray Road and Leppert Road, north of Davidson Road and south of the Bo Jackson Elite Sports facility. The proposed site will be a multi-use sports complex consisting of 12 natural turf fields, 2 high-performance natural turf fields, 4 synthetic turf fields, 1 miracle league field, 3 single-story masonry concession/restroom buildings, 1 pre-engineered maintenance building, 2,000 parking spaces, walking trails, sports field lighting, storm water management, irrigation, and associated site utilities, including a +/- 35-foot deep trunk sanitary sewer. The 3 concession/restroom buildings range in size from approximately 1,700 s.f. to 3,750 s.f., and the pre-engineered maintenance building is anticipated to be approximately 7,500 s.f. The site recently was an agricultural field.

S&ME understands that the project will be constructed in multiple phases. Phase 1 includes widening the entry drive, expanding parking (140 spaces) near the Bo Jackson facility, installing the trunk sanitary sewer and utilities, and construction of the Miracle League Field with lights. The future community center building is not included with this scope of work. Specific details regarding the design of the proposed structures and grades are not known at this time. For purposes of this geotechnical exploration, it is assumed that the proposed structures will be founded on shallow spread footings and that minimal amounts of cut and fill (less than 3 feet) will be required for the proposed grades.

S&ME performed and Aquifer Suitability Literature Review. The results were submitted in a separate letter dated December 21, 2018.

3.0 Geology

The site is located in a glaciated portion of the state along the border of the Darby Plain and Columbus Lowland physiographic regions of Ohio. The geology in the area typically consists of medium to high-lime Wisconsinan-aged glacial till over the Devonian Age Columbus Limestone Formation, which overlies the Silurian Age Salina Formation. A review of Ohio Department of Natural Resources (ODNR) water well logs indicate bedrock depths are variable and typically range from approximately 80 feet in the western portion of the site to approximately 220 feet in the eastern portion of the site. A north to south trending pre-glacial, till filled, valley is carved in the bedrock surface beneath the eastern side of the site.

The ODNR map of Ohio Karst Areas indicates that karst features are not known to be present in the immediate area of the site. Additionally, the ODNR Abandoned Underground Mines of Ohio map reveals that the site is not located over any mapped underground mines. Lastly, the ODNR Landslides in Ohio map indicates that the site is in a portion of the state not having high susceptibility to landslides.

4.0 Exploration

4.1 Field Investigation

Between January 2 and 8, 2019, Borings B-1 through B-22 were extended to depths ranging from 15 to approximately 40 feet below the existing ground surface, to evaluate the subsurface conditions at this site for the proposed development. The boring locations are shown on the Plan of Borings, submitted as Plate 2A of the Appendix. The boring locations and depths were selected and positioned in the field by personnel from S&ME. Top of boring elevations were estimated from available topographic mapping of the area (Franklin County Auditor 2013).

The borings were performed by an ATV-mounted drilling rig using a 3-1/4 inch I.D. hollow-stem auger to advance the borings through the soil between sampling attempts. At regular intervals, disturbed but representative soil samples were obtained by lowering a 2-inch O.D. split-barrel sampler through the auger stem to the bottom of the boring, and then driving the sampler into the soil with blows from a 140-pound hammer freely falling 30 inches (ASTM D1586 - Standard Penetration Test). Split-barrel samples were examined immediately after recovery and representative portions of each sample were placed in air-tight jars and retained for subsequent laboratory testing. The borings were checked for the presence of groundwater during sampling and at the completion of drilling.

The following was performed in the field: 1) all samples recovered were examined; 2) representative portions of all samples were preserved in airtight glass jars; 3) a log of the boring was prepared; 4) and, seepage and groundwater observations were recorded. After drilling, all but three of the borings were left open until the completion of drilling activities to allow for water level observations before backfilling with the excess excavated material/cuttings. The remaining three borings had hand slotted PVC placed in the borehole for additional water level observations. All recovered samples were then transported to the laboratory of S&ME for further examination and testing.

4.2 Laboratory Testing

In the laboratory, selected soil samples were visually identified and natural moisture contents, Atterberg limits, and grain size analyses were performed on representative specimens. The results of the laboratory index tests are recorded graphically on the individual boring logs and a summary is presented on Plate 32 of the Appendix. Atterberg Limits' Results are presented on Plate 33 and results of the grain size analyses are included on Plates 34 and 35 of the Appendix.

Based on the results of the laboratory testing program, soil descriptions contained on the field logs were modified, as necessary, and the laboratory-corrected boring logs are included as Plates 4 through 31 in the Appendix. Shown on the logs are: descriptions of the soil stratigraphy encountered; depths from which samples were preserved; sampling efforts (blow-counts) required to obtain the specimens in the borings; seepage and groundwater observations; and, values of hand-penetrometer measurements made in selected soil samples exhibiting cohesion. For your reference, hand-penetrometer values are roughly equivalent to the unconfined compressive strength of the cohesive fraction of the soil sample.

Soils described in this report have been classified in general accordance with the Unified Soil Classification System, but this system has been augmented by the use of special adjectives to designate the approximate percentages of minor soil components. An explanation of the symbols and terms used on the boring logs and definitions of the special adjectives used to denote the minor soil components are presented on Plate 3 of the Appendix.

5.0 General Subsurface Conditions

5.1 Soil Stratigraphy

The twenty-two (22) borings were extended to depths ranging from approximately 15 to 40 feet below the existing ground surface and initially encountered 3 to 11 inches of rootmat/topsoil. A layer of possible topsoil or stained clay ranging in thickness from 6 to 9 inches was encountered below the rootmat/topsoil in all but two of the borings. Beneath the surficial soils, the borings encountered stiff to hard cohesive soils (silty clay or clayey silt). Isolated zones of medium-stiff cohesive or medium-dense to very-dense granular soils (silt, sand, and gravel) were noted in a few of the borings. Cobbles and/or boulders were noted in many of the borings at varying depths. Auger or sampler refusal was noted on hard glacial till in the deeper borings. Possible existing fill was noted in two of the borings (B-18 and B-19) extending to depths of approximately 5 and 11 feet, respectively.

For further details of subsurface conditions encountered, please refer to the individual boring logs presented on Plates 4 through 31 of the Appendix.

5.2 Groundwater Observations

During drilling, seepage or groundwater was observed in Borings B-13, B-18, B-20, and B-22, at depths ranging from approximately 1 to 35 feet below the existing ground surface. Upon the completion of drilling, groundwater was measured in Borings B-4, B-7, B-13, B-20, and B-22 at depths ranging from approximately 4 to 29 feet. The remaining borings were noted as "dry" meaning no measurable amount of water had accumulated in the bottom of the boring. It should also be noted that borings had partially caved prior to "at-completion" observations. At the completion of all drilling operations at the site, water was measured and ranged from the ground surface to approximately 15 feet below the ground surface. On January 24, 2019, a couple weeks after drilling, water was measured in the standpipes at the following depths: B-4 at ground surface; B-16 at 2.6 feet below ground surface; and, B-19 at 9.4 feet below ground surface.

6.0 Analyses and Recommendations

6.1 Geotechnical Evaluation

Predominately cohesive soils (CL, CH) were encountered in the borings performed at this site. Isolated zones of silt, sand, and gravel were also encountered in the borings. Cobbles and boulders were noted at varying depths. Highly plastic ("fat") cohesive soil (clay-CH) was encountered in three of the near-surface soil samples tested and moderately plastic cohesive soils (CL) were identified in two of the other tested samples. S&ME anticipates that relatively minor amounts of cut and fill (approximately 3 feet) will be required to achieve the proposed grades.

Although not noted in a distinct zone, during wet times of the year, the groundwater table may be at or very near the existing ground surface.

The following sections discuss considerations for utilities, structures, pavements, and retention pond construction. Specific design and construction recommendations for the natural turf or synthetic turn playing fields are not included in S&ME's scope of services.

As a result of the conditions encountered in the borings, considerations regarding utility construction are:

- Excavation conditions for the installation of deep utilities, such as the trunk sewer along with the need to brace or shore deep excavations;
- Excavation below groundwater table and protecting utilities from uplift; and,
- Potential for encountering silt soils that are easily disturbed, especially in the presence of water and pipe support considerations if weak or disturbed materials are encountered.

Considerations for structures, pavements, and retention ponds are:

- The presence of highly plastic "fat" clay soils beneath floor slabs and roadway pavements and the potential need to overexcavate and/or remediate.
- The presence of possible existing fill may require additional earthwork if present at locations of proposed structures.
- The presence of high groundwater and the need for groundwater control measures during both construction and long-term (consideration may be given to raising site grades so that positive drainage can be established).
- Given the presence of mostly cohesive soils (CL/CH) at the proposed pond locations, it is recommended that the pond bottoms be disced a depth of 12 inches and recompacted in-place as described in Section 6.5 of the report.

6.2 Utilities

The trunk sewer is anticipated to be constructed at depths as great as 35 feet below the existing ground surface. Based on the Utility Plan prepared by the Kleingers Group dated November 2018, the sewer is anticipated to start along the existing drive that extends from Cosgray Road around the north side of the Miracle Field and northern pond, south along the edge of the natural turf field, and east along the parking area adjacent to the proposed drive to Leppert Road. Borings closest to this alignment are B-11, B-12, B-13, B-16, B-19, and B-20.

6.2.1 Excavation Conditions

The borings performed during this exploration encountered cohesive soil (silty clay or clayey silt) containing varying amounts of granular soils to their completion depth. Discontinuous seams and zones of granular soil (silt, sand, and gravel) were also encountered in some of the borings and may be encountered within the planned excavation depth. Difficulty extending excavations may also be encountered where hard till or cobbles/boulders are encountered.

Sloughing and caving should be anticipated when excavations extend into/through saturated granular layers or weaker cohesive seams and layers. All excavations should be laid back or braced in accordance with the most recent OSHA excavation rules and regulations. OSHA guidelines also require that any excavations extending beyond a depth of 20 feet be designed by a registered Professional Engineer (P.E.). Based on the anticipated excavation depth, it is recommended that all trunk sewer excavations be designed by a P.E. Design considerations for bracing/sheeting/shoring systems should also address base stability of the excavation bottom (i.e., heaving) as well as considering the depth of any overexcavation that may be necessary to remove any unsuitable or disturbed soil below the proposed sewer invert. See the Pipe Support section of this report for more discussion regarding remedial measures for loose, weak, or unsuitable soil that may be present at the sewer invert elevation.

Using open trench construction methods to install the sewer in easily disturbed materials may also potentially result in damage to other underground utilities, pavements, utility poles, or structures which are located within the influence zone of any open cut trench, as a result of lateral movement of unbraced side slopes of the trench. For this reason, S&ME recommends that both sides of all excavations be fully braced during construction to reduce the potential for sloughing, caving, and damage to any nearby structures. Because of the anticipated depth of the excavation for the trunk sewer, S&ME recommends the sewer be constructed prior to other improvements such as adjacent ponds, structures or roadway improvements to minimize the features that may be within the potential excavation influence zone. Consideration could also be given to performing a pre-construction survey to document the position and condition of existing features or structures within the potential influence zone. If a pre-construction survey is performed, monitoring points should be established on various edges of pavement, utilities, or structures.

In Borings B-13 and B-20, silt was encountered near the proposed invert depth. Silt soils are easily disturbed when saturated. If these soils are unconfined (i.e., exposed during excavation) and are disturbed by vibrations from construction activities or traffic, these soils may exhibit a 'quick' condition and may 'flow'. Therefore, provisions should also be included for the construction of bulkheads across the sewer trench at the ends of all sheeting, bracing, or trench boxes where such soils are encountered to prevent any flowing or sloughing of soil around the ends of the bracing and into the excavation. The potential for 'quick or flowing' conditions can be minimized when the soils are not saturated and, therefore, S&ME recommends that continuous dewatering be performed as described in the subsequent Groundwater Considerations section of this report.

6.2.2 Bracing/Shoring Design

To minimize the potential for instability of any adjacent embankment or disturbance of any other existing structures or utilities within the zone of influence of the sewer excavation, S&ME recommends that any shoring/bracing/sheeting for the excavation be designed using the "at-rest" earth pressure condition, which assumes no movement in the soil acting on the retaining structure. The magnitude and distribution of the earth pressure acting on any temporary support structure used to fully brace the sewer excavation should be appropriate for the type of bracing, soil type, and any applicable surcharge loads.

After the project has been dewatered as discussed in the Groundwater Considerations section, it is anticipated that drained conditions will exist in retained zones. During design of bracing for these cohesive zones, S&ME recommends a drained equivalent fluid unit weight of 88 pcf, an at-rest earth pressure coefficient of 0.7, and a friction angle of 20°.

Additionally, any bracing/shoring system should extend as deep as necessary below the base of the excavation to provide adequate base stability and mitigate bottom heave, as well as sufficiently cut off groundwater flows beneath the shoring and prevent 'boiling' of the excavation bottom in the event of unbalanced water levels inside and outside the excavation. As such, S&ME recommends the entire length of the project be dewatered, as discussed in the Groundwater Considerations section.

6.2.3 Pipe Support

Provided the area of the proposed sewer excavation is dewatered in advance of any excavation as described in the Groundwater Considerations section, and the excavation is fully braced (with bulkheads as needed) as discussed in the Excavation Conditions and Bracing/Shoring Design sections of this report, S&ME anticipates the majority of the soils encountered at the proposed invert elevation will be suitable for support of the proposed pipe. As the soil excavated will weigh more than the new pipe being installed, the soil bearing at the invert should be adequate and settlement of the pipe minimal.

If weaker soils are encountered, or if soils become disturbed by construction activity, or softened by the presence of water at the invert elevation, we recommend that the exposed weak soils be stabilized to provide suitable bearing support for the pipe. For stabilization, we recommend that the trench be over-excavated a maximum depth of 2 feet below the proposed pipe invert elevation to expose stiffer soils. If soft soils are present at the maximum over-excavation depth of 2 feet, we recommend that a woven geotextile fabric be placed at the bottom of the over-excavation prior to placement of granular backfill. The over-excavation should be backfilled with an open graded granular material. Prior to placing the open graded material, any accumulation of groundwater should be removed. The granular backfill should be placed and compacted in maximum 12-inch thick loose lifts. Depending on the conditions at or below the pipe invert, the incorporation of a geo-grid could also be needed to stabilize the bottom for suitable pipe support. The determination of the incorporation of fabric and grid should be made by a geotechnical engineer or their representative at the time of pipe installation.

6.2.4 Backfill Recommendations

All trench backfill placed for the sewer construction should be placed and compacted in accordance with the ODOT Construction and Material Specifications (CMS) Item 611.06. Material from the trench excavations may be reused as backfill for utility trenches provided it meets the requirements in Item 611.02H.

Regardless of the compactive effort applied, S&ME recommends that the moisture content of all backfill be maintained within -2% to +2% of the optimum moisture content during all compaction operations. All soil to be used as backfill should consist of non-organic soil free of miscellaneous debris, cobbles, and boulders. The backfill should not be in a frozen condition during placement and should not be placed on a frozen subgrade. The final determination of whether a soil is suitable for structural backfill should be made in the field by a geotechnical engineer or their representative as construction proceeds.

6.2.5 Groundwater Considerations

Sudden seepage or groundwater flows may occur as excavations extend into the sand and gravel deposits encountered at depths of 32 and 27.5 feet in Borings B-13 and B-20, respectively. It is believed that temporary (construction) deep wells will be required and should be installed before the excavations extend into the sand and gravel, or the silt layers. Silt and fine sands are easily disturbed when in the presence of water, and will "flow" with the moving water.

A Dewatering Contractor should be retained to develop a dewatering plan prior to the start of construction, and it is recommended that S&ME be retained to review and comment on the plan prior to construction. The dewatering plan must include the proposed locations, depths and diameters of deep wells, the screen size and the gradation of well filter pack material, the types and capacity of the pumps, estimated pumping rates and a plan for where the water will be discharged. The Dewatering Contractor should be responsible for obtaining all necessary permits for the construction dewatering and for the discharge of the pumped water. The Dewatering Contractor shall propose Best Management Practices (BMP's) to be employed during construction dewatering to reduce the potential for erosion and/or sedimentation.

The dewatering plan should include a discussion on how the fines content of the pumped water will be monitored, and what corrections the Dewatering Contractor will make to keep the fines content below 5 parts per million (ppm). If requested, S&ME could develop the dewatering specification for this Project.

It is also noted that cohesive soils if exposed to standing water will quickly absorb water, soften, and may become unstable. Water should not be permitted to collect or pond in the bottom of the excavation. Soil at the bearing elevation softened by water should be overexcavated or stabilized as described in the Pipe Support section.

6.2.6 Uplift Considerations

It is recommended that any underground, water-tight structures (i.e., manholes) be designed to resist the potential buoyant forces from static groundwater. To resist any potential uplift pressures created by groundwater, the foundations should be designed for uplift pressures resulting from the difference in elevation between the maximum anticipated hydrostatic head around the structure and the bottom of the structure. The structure dead weight must provide an adequate factor of safety against the anticipated hydrostatic uplift force. Uplift resistance may be increased by adding additional dead weight to the structure (foundation and/or walls), cantilevering the foundations beyond the perimeter walls, or anchoring the foundations to the underlying soil strata using piles or post-tensioned soil anchors.

6.3 Structures

6.3.1 Site Preparation

Prior to placing new fill or construction materials, it is recommended that all vegetation, topsoil, organic soil, trees and tree roots, existing uncontrolled fill or any other unsuitable material be stripped from the proposed building footprints and pavement areas. Rootmat/topsoil thickness at boring locations ranged from 3 to 11 inches. Underlying the rootmat/topsoil was possible topsoil/stained clay that likely has a lower percentage of organics

and may not require stripping. Determination of required topsoil strip depths should be made during stripping operations by a qualified geotechnical engineer or their representative.

Following stripping and any necessary undercutting, the entire exposed building and pavement subgrade soils should be proofrolled using a heavily-loaded, tandem-axle truck to detect soft, wet or weak zones. It is recommended that any observed unsuitable materials or subgrade soils which exhibit significant pumping and/or rutting during proofrolling, be stabilized by one or more of the three following methods:

1. Scarifying, aerating, and recompacting the yielding soils;
2. Overexcavating and replacing the yielding soils with compacted suitable fill in accordance with the Earthwork section of this report; or,
3. Using a geo-grid and suitable thickness of stone on top of the subgrade in connection with granular base.

The determination of which of the three methods is appropriate for remediation of problematic portions of the site would best be determined by an S&ME representative witnessing a proofroll.

6.3.2 Earthwork

A site grading plan was not available at the time this report was submitted; however, it is anticipated that relatively minor amounts of cut and fill (less than 3 feet) will be required to achieve the proposed grades. In areas where new fill will be used for direct support of foundations, floor slabs-on-grade, and pavements, the following are recommended:

- Place new structural fill in uniform, thin lifts (eight inches maximum loose thickness) and compact the new fill to a dry unit weight of no less than 98% of the Standard Proctor maximum dry density (ASTM D 698).
- The moisture content of all soil that is used as structural fill should be maintained within +/-2% of the optimum moisture content during all compaction operations.
- All soil used as structural fill should be non-organic and free of miscellaneous debris, cobbles, and boulders.
- Where existing "fat" clays are present within 3 feet of any proposed foundation bearing elevation or floor slabs, undercut this material and replace with a properly compacted clayey silt or silty clay material having a Plasticity Index (PI) less than 20 and Liquid Limit (LL) less than 50, or a granular fill such as ODOT Item 304.
- The fill should not be in a frozen condition during placement and should not be placed on a frozen subgrade.

Portions of the inorganic silty clay and clayey silt soils having low plasticity, which were encountered in many of the borings performed for this investigation, may be suitable for reuse as engineered fill. However, portions of the near-surface soils had a high Liquid Limit (LL) and high Plasticity Index (PI) indicative of a "fat" clay (CH) (B-6, B-14, B-21). The in-situ moisture contents of these "fat" clay samples suggest that it may be wet of the optimum moisture content, likely making it difficult to achieve a stable, properly compacted fill. As such, these "fat" clays may require significant moisture conditioning (drying back) prior to placement and compaction. "Fat" clays also have a tendency to shrink and swell with changes in moisture content. *Highly plastic "fat" clays are not recommended for use within 3 feet of proposed roadway or structure subgrade elevations.*

Additionally, soils tested in Borings B-1 and B-6 were moderately "fat" and may also be difficult to work. The ability to achieve proper compaction and stability on silt(y) soils is dependent on careful moisture control during earthwork as these soils typically need to be compacted at a moisture content below their optimum moisture content. This may not be feasible in cold and wet weather months. *It is recommended that bulk samples of on-site and any off-site borrow soils be procured and tested 2 to 3 weeks in advance of engineered fill placement to determine their compaction characteristics and to have the compaction data available at the beginning of filling operations.*

6.3.3 Spread Foundations

Based on the conditions encountered in the borings and considering that relatively minor amounts of cut and fill (less than 3 feet) are required in some areas of the site to obtain grade for the proposed construction, shallow spread foundations will likely bear in natural stiff to hard cohesive (silty clay or clayey silt) soil or newly placed compacted and controlled fill. Existing uncontrolled fill, if-encountered, is not considered suitable for foundation support. As such, S&ME recommends the following:

- A maximum net allowable bearing pressure of 3,000 pounds per square foot (psf) may be used for the design of shallow spread foundations bearing in natural stiff to hard cohesive soils (silty clay or clayey silt), or newly placed, properly compacted, engineered fill;
- If weak soils or uncontrolled existing fill are encountered at the plan foundation bearing elevation, it is recommended that footing excavations be extended through these zones to stronger, more suitable natural bearing soils. The footing over-excavations below the plan bearing elevation can be backfilled with low-strength concrete having a minimum 28-day compressive strength of 1,500 psi or with additional footing concrete. It is recommended that this low strength concrete be placed at least 24 hours prior to the placement of footing concrete;
- Exterior footings should be placed at least 32 inches below the lowest adjacent grade for frost protection or in accordance with local codes;
- A minimum footing width of 16 inches for wall footings and 36 inches for column footings are recommended, regardless of calculated size based upon net allowable bearing pressure;
- Footings designed and constructed in accordance with the foregoing recommendations and procedures will have a factor of safety of at least 3 with respect to shearing strength;
- It is anticipated that settlements for the proposed concession/restroom buildings and maintenance building will be within tolerable ranges (less than 1-inch of total settlement and differential settlements not exceeding ½-inch) provided the site preparation, earthwork, and foundation construction are performed in accordance with the recommendations provided in this report; and,
- All footing excavations should be observed by an S&ME representative to determine if suitable natural bearing soils are present at the foundation bearing elevation, that the bearing soils are capable of supporting the loads as designed, and to minimize the amounts of undercuts required during excavation if weak soils and/or existing fill are encountered.

6.3.4 Seismic Site Classification

Based on the subsurface stratigraphy encountered within the borings, the estimated depth to bedrock, standard penetration resistance (blow counts), estimated shear strength values, and the estimated stratigraphy between the

bottoms of the borings and 100 feet below existing grades, it is the opinion of S&ME that this site is best characterized by 2017 Ohio Building Code Seismic Site Class D.

6.3.5 Floor Slab Support

Although a site grading plan was not available at the time of this report, considering that minimal cut/fill will be needed to obtain proposed subgrade elevation, it is anticipated that the proposed floor slab will be supported on either natural stiff to hard silty clay, clayey silt, or newly placed and compacted fill comprised of on-site soils. On this basis, concrete floors may be designed as slabs-on-grade utilizing a Modulus of Subgrade Reaction of 100 pounds per cubic inch (pci). The preceding recommendation considers a minimum 4-inch washed gravel or crushed stone base is placed as a moisture barrier directly below the floor slab concrete, and that the slab subgrade soils have been prepared in accordance with the recommendations presented in this report.

It is recommended that final subgrade preparations be performed immediately prior to the placement of the granular base material to minimize damage to the subgrade from repeated construction traffic and/or exposure to weather. Proofrolling operations should be performed on the final subgrades to expose any soft or unsuitable bearing materials which may have developed during construction as a result of heavy construction traffic. We recommend that the proofrolling operations be performed using a fully-loaded, tandem-axle dump truck. Any soft or unsuitable material exhibiting rutting, yielding, and/or pumping during the proofroll should be either undercut to a firm bearing material and be replaced with engineered fill to re-establish final subgrade, or be stabilized in accordance with the recommendations presented in the Site Preparation section of this report.

6.3.6 Groundwater Considerations

Based on the groundwater observations made during drilling, and dependent upon seasonal fluctuation of the groundwater table, it is anticipated that shallow excavations (three feet or less) for the foundations may encounter groundwater seepage. Perched water may also be encountered during construction. It is anticipated that water encountered during construction of shallow foundation excavations can likely be controlled by bailing or pumping from temporary sumps. Deeper excavations, such as excavations for utilities, extending into saturated granular layers may encounter more significant groundwater flows (see Section 6.2.5). If sumps and pumps do not adequately control the groundwater during construction, then more extensive dewatering techniques could be required, such as wells or well points.

As mentioned previously, consideration may be given to raising the grades to reduce the potential for seasonal water problems or including measures to provide positive drainage to the site. During construction, surface runoff and precipitation should not be permitted to collect and stand in excavations as the soil will absorb water. Soils softened by standing water or disturbed by construction activity should be removed from excavations before construction materials are placed. Provisions should be made to slope or brace the walls of excavations in accordance with the most recent OSHA regulations.

6.4 Pavement Subgrade

Prior to pavement construction, any topsoil, organic material, or other unsuitable material should be removed from proposed pavement areas and the pavement subgrades should be prepared as described in the Site Preparation section of this report. It is anticipated that the subgrade for the pavements within the site will consist

of natural stiff to hard silty clay or clayey silt which are typically suitable for pavement support following favorable proofrolling and remediation, or of newly placed controlled fill composed of on-site borrow. Given the variable natural of the subgrade soil and based on laboratory tests performed on the near surface soils at this site, along with ODOT Group Index correlations, a CBR (California Bearing Ratio) value of 3 percent may be used for the design of pavements to be placed on these materials.

Because of the presence of the slightly organic possible topsoil/stained clay soil layer beneath the rootmat/topsoil, it is recommended that where present at proposed pavement subgrade this slightly organic layer be mixed with the underlying non-organic soils and then properly recompacted. It is also recommended that the fat clay material present in some locations near the existing ground surface not be used as new fill/borrow within 3 feet of the anticipated subgrade. Frost susceptible silts are not recommended within 3 feet of the proposed subgrade elevation.

In addition to proper subgrade preparation, we recommend that the pavement design and construction include surface and subsurface drainage measures. Water which infiltrates the pavement and remains trapped within the pavement components during traffic loading is one of the leading causes of premature pavement failure. Effective design measures include the use of perimeter swales, perimeter edge drains, curbs, or a combination of these features to collect surface water runoff from areas adjacent to the pavement. Cohesive subgrade soils should be crowned or sloped to promote drainage of infiltrating water towards subsurface drainage collection systems.

6.5 Retention Pond Construction

S&ME understands that permanent ponds, to be used for irrigation purposes, are planned for the northern and eastern portions of this site as shown on Plate 2B of the Appendix. Borings B-4, B-8, B-13, and B-20 were drilled in the vicinity of the ponds and encountered predominantly cohesive soils. Granular zones were noted in Borings B-13 and B-20 at depths of approximately 26 and 17 feet, respectively. Groundwater or seepage was noted in Boring B-13 at a depth of roughly 22 feet and in B-20 at a depth of roughly 35 feet below the existing ground surface as the borings were being advanced. No seepage was noted during drilling of Borings B-4 or B-8. By the end of the field work, water had accumulated to within a few feet of the ground surface in three of the borings and was about 13 feet below the ground surface at the end of the day in the fourth. It is noted that our field work was performed after a period of very-high precipitation.

The ponds may be excavated into the natural soils. Any exposed sand, silt or gravel seams thicker than 6 inches should be over-excavated and replaced with compacted cohesive soil. The over-excavation should extend at least 24 inches below the granular seam. The excavated bottom and side slopes should be scarified to a depth of at least 8 inches and recompacted in place.

Fill for the pond construction should be placed in uniform lifts not exceeding a loose thickness of 8 inches, and be compacted on relatively horizontal surfaces, no steeper than 5 horizontal on 1 vertical. The fill should be compacted to a unit dry weight equal to no less than 95 percent of the maximum unit dry weight as determined in the laboratory by the Standard Proctor Test (ASTM Designation D 698). The moisture content of all new fill used for the liner should be maintained between the optimum moisture content and 3 percentage points above

optimum. Bulk soil samples should be obtained well in advance of construction so compaction criteria and a determination of suitability can be established prior to placing any liner material.

Although no field tiles were noted during drilling, it is possible that agricultural field tiles (drain tiles) may be present in the area of the ponds. It is assumed that the normal pool level in the ponds will be below the level of the field tiles. If lower field tiles are encountered, it might be necessary to route these tiles around the ponds and discharge the tiles where they can drain by gravity.

It is believed that during the initial excavations for the pond, dewatering may be required and should be possible by pumping from excavated sump pits.

If storm sewers or irrigation pipes will be inundated when the pond is at the normal pool elevation, it is important that precautions be taken to prevent water losses/infiltration through the trench backfill or through joints in the pipes. In these areas, trenches should be backfilled with properly compacted cohesive soil or flowable fill for a distance of 10 feet from the ponds. Water-tight pipe/joints should be used for pipes below the normal pool level.

It is recommended that the construction of the ponds be observed by personnel from this office. A critical factor in achieving the desired long-term performance of the ponds is proper construction and field control.

7.0 Final Considerations

Given the wide spacing of borings performed for this exploration, additional exploration may be warranted prior to final design and construction of structures once more information regarding final site layout, final building types, final loading information, and final grades are known.

This report has been prepared in accordance with generally accepted geotechnical engineering practice for specific application to this project. The conclusions and recommendations contained in this report are based upon applicable standards of our practice in this geographic area at the time this report was prepared. No other representation or warranty either express or implied, is made.

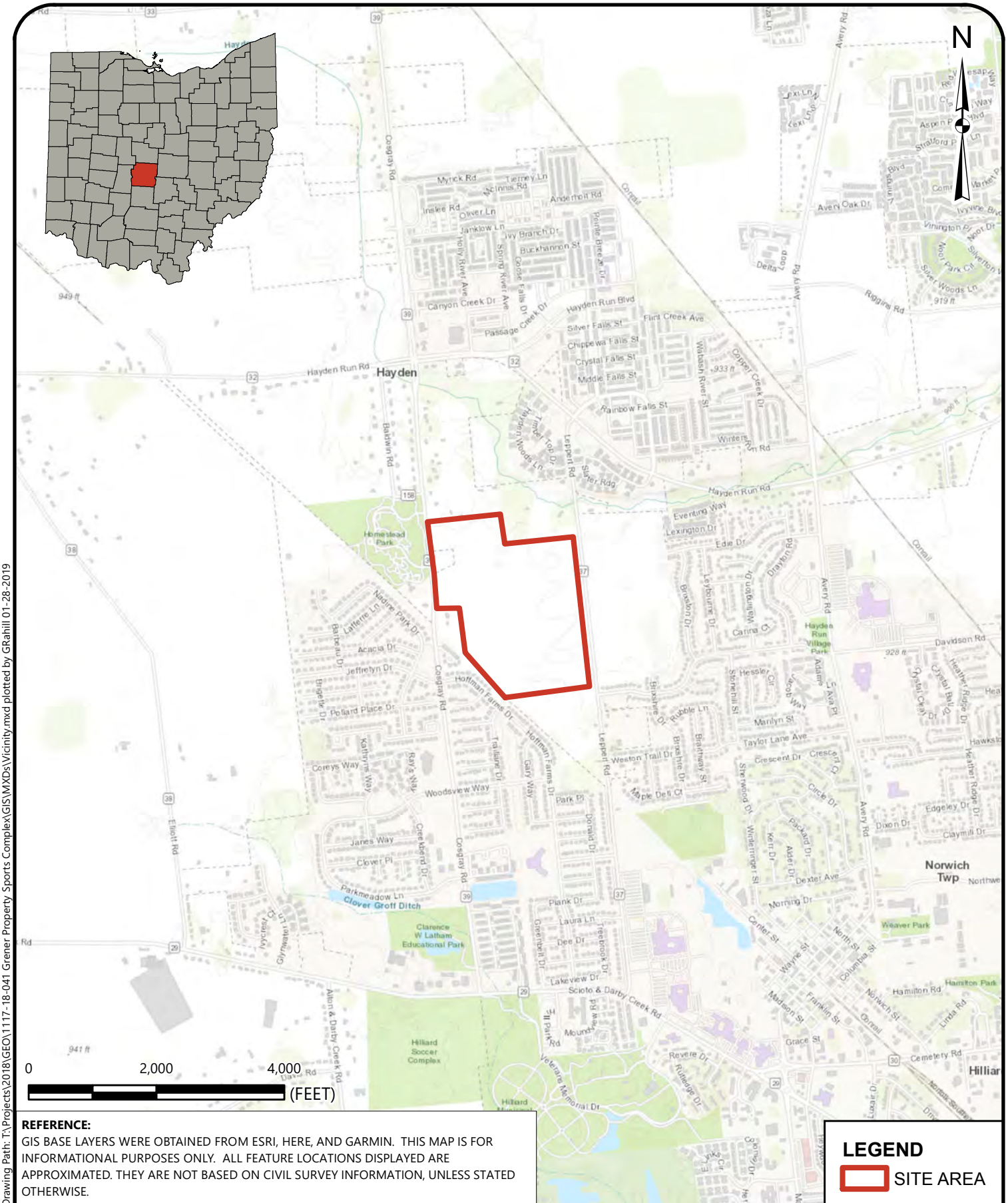
We relied on project information given to us to develop our conclusions and recommendations. If project information described in this report is not accurate, or if it changes during project development, we should be notified of the changes so that we can modify our recommendations based on this additional information if necessary.

Our conclusions and recommendations are based on limited data from a field exploration program. Subsurface conditions can vary widely between explored areas. Some variations may not become evident until construction. If conditions are encountered which appear different than those described in our report, we should be notified. This report should not be construed to represent subsurface conditions for the entire site.

Unless specifically noted otherwise, our field exploration program did not include an assessment of regulatory compliance, environmental conditions or pollutants or presence of any biological materials (mold, fungi, bacteria). If there is a concern about these items, other studies should be performed. S&ME can provide a proposal and perform these services if requested.

S&ME should be retained to review the final plans and specifications to confirm that recommendations are properly interpreted and implemented. The recommendations in this report are contingent on S&ME's review of final plans and specifications followed by our observation and monitoring of utility construction activities.

Appendix



REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM ESRI, HERE, AND GARMIN. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

LEGEND
SITE AREA

Drawing Path: T:\Projects\2018\GEO\1117-18-041 Grener Property Sports Complex\GIS\MXDs\Vicinity.mxd plotted by GRahill 01-28-2019

VICINITY MAP

GRENER PROPERTY MULTI-USE SPORTS COMPLEX
HILLIARD, OH

SCALE:	1 " = 2,000 '
DATE:	1-28-19
PROJECT NUMBER	1117-18-041
FIGURE NO.	1

LEGEND

BORING LOCATIONS

FRANKLIN COUNTY AUDITOR CONTOURS

- EL 934 AND BELOW
- EL 936
- EL 938
- EL 940
- EL 942
- EL 944

REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM ESRI, DIGITALGLOBE AND GEOEYE. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.
BASE LAYER AERIAL IMAGERY UPDATED JAN 31 2019.
CONTOURS OBTAINED FROM FRANKLIN COUNTRY AUDITOR, DATED 2013.

Drawing Path: T:\Projects\2018\GEO\1117-18-041 Grener Property Sports Complex\GIS\MXDs\POB w contours - Copy.mxd plotted by grahill 02-01-2019

PLAN OF BORINGS

GRENER PROPOERTY MULTI-USE SPORTS COMPLEX
HILLIARD, OH

SCALE:
1 " = 400 '

DATE:
2-1-19

PROJECT NUMBER
1117-18-041

FIGURE NO.
2A

LEGEND

1. Natural Turf Field (360'x225')
2. Synthetic Turf Field (360'x225')
3. High Performance Natural Turf Field (360'x225')
4. Miracle Field with Lights
5. Playground
6. Vendor Space
7. Flex Space
8. Promenade
9. Stormwater Management
10. Multi-use Trail
11. Concessions and Restrooms (3,250 sf)
12. Maintenance Building
13. Open Air Picnic Shelter

N

0 50 100 200
SCALE 1"=100'

September 7th, 2018

SITE RENDERING

HILLIARD MULTI-USE SPORTS COMPLEX

PLATE 2B

EXPLANATION OF SYMBOLS AND TERMS USED ON BORING LOGS FOR SAMPLING AND DESCRIPTION OF SOIL

SAMPLING DATA

- ▮ - Blocked-in "SAMPLES" column indicates sample was attempted and recovered within this depth interval.
- ▯ - Sample was attempted within this interval but not recovered.
- 2/5/9 - The number of blows required for each 6-inch increment of penetration of a "Standard" 2-inch O.D. split-barrel sampler, driven a distance of 18 inches by a 140-pound hammer freely falling 30 inches. The raw "blowcount" or "N" is equal to the sum of the second and third 6-inch increments of penetration. Addition of one of the following symbols indicates the use of a split-barrel other than the 2" O.D. sampler:
  - 2S - 2½"O.D. split-barrel sampler
  - 3S - 3" O.D. split-barrel sampler
- N_{60} - Corrected Blowcount = [(S&ME Drill Rod Energy Ratio) / (0.60 Standard)] X N_{raw}
- P - Shelby tube sampler, 3" O.D., hydraulically pushed.
- R - Refusal of sampler in very-hard or dense soil, or on a resistant surface.
- 50-2" - Number of blows (50) to drive a split-barrel sampler a certain number of inches (2), other than the normal 6-inch increment.
- SD - Split-barrel sampler (S) advanced by weight of drill rods (D).
- SH - Split-barrel sampler (S) advanced by combined weight of rods and drive Hammer (H).

SOIL DESCRIPTIONS

All soils have been classified basically in accordance with the Unified Soil Classification System, but this system has been augmented by the use of special adjectives to designate the approximate percentages of minor components, as follows:

Adjective	Percent by Weight
trace	1 to 10
little	11 to 20
some	21 to 35
"and"	36 to 50

The following terms are used to describe density and consistency of soils:

Term (Granular Soils)	Blows per foot (N_{60})
Very-loose	Less than 5
Loose	5 to 10
Medium-dense	11 to 30
Dense	31 to 50
Very-dense	Over 50

Term (Cohesive Soils)	Qu (tsf)
Very-soft	Less than 0.25
Soft	0.25 to 0.5
Medium-stiff	0.5 to 1.0
Stiff	1.0 to 2.0
Very-stiff	2.0 to 4.0
Hard	Over 4.0

LOG OF BORING NO. B-1
GRENER PROPERTY - MULTI USE SPORTS COMPLEX
HILLIARD, OHIO

LOCATION: **See Plate 2 of Appendix.** ELEVATION: **941 ±** DATE: **1/7/19**

DRILLING METHOD: **3-1/4" I.D. Hollow-stem Auger** COMPLETION DEPTH: **15.5'**

SAMPLER(S): **2" O.D. Split-barrel Sampler**

ELEV.	DEPTH, FEET	SAMPLE NUMBER	SAMPLE	SAMPLE EFFORT	N_{60}	SAMPLE REC-%	DESCRIPTION	NATURAL CONSISTENCY INDEX / NATURAL MOISTURE CONTENT (PLASTIC LIMIT — LIQUID LIMIT)	TEST RESULTS
940.6	0						ROOTMAT - 5 INCHES	10 20 30 40	
940.0							POSSIBLE TOPSOIL/STAINED CLAY - 7 INCHES		
		1		1 / 3 / 3	7	80	Very-stiff brown silty clay, little fine to coarse sand, trace fine to coarse gravel, few cobbles (CL).		H=2.0-2.5
938.0							Very-stiff brown mottled with gray silty clay, little fine to coarse sand, trace fine gravel (CL).		
		2		3 / 3 / 6	11	67			H=3.0-4.5
935.5	5						Stiff to very-stiff brown mottled with gray silty clay, little fine to coarse sand, trace fine to coarse gravel, few cobbles (CL).		
		3 2S		6 / 7 / 7	17	0 80			H=1.5-3.0
		4 2S		2 / 6 / 9	18	0 100			H=3.5-4.0
	10								
		5 2S		6 / 42 / 32	90	0 40			
925.5	15						- No seepage noted. - Cobbles noted at 3.0' and 14.0'. - Elevations estimated from Franklin County Auditor mapping and should be considered approximate.		
	20								
	25								

2010 NEW DEFAULT BORING LOG-W/ N60

WATER LEVEL: ▽ "Dry" ▼ 1.0
WATER NOTE: Caved at 11.7
DATE: 1/7/2019 1/8/2019

SYMBOLS USED TO INDICATE TEST RESULTS

G - Gradation, Q - Uncon Comp, T - Triax Comp, C - Consol. (See Separate Curves)

H - Penetrometer (tsf)
W - Unit Dry Wt (pcf)
D - Relative Dens (%)

Drill Rod Energy Ratio : 0.732
Last Calibration Date : 11/16/2017
Drill Rig Number : S&ME (R43)

JOB: 1117-18-041

PLATE 4

LOG OF BORING NO. B-2
GRENER PROPERTY - MULTI USE SPORTS COMPLEX
HILLIARD, OHIO

LOCATION: **See Plate 2 of Appendix.** ELEVATION: **940 ±** DATE: **1/4/19**

DRILLING METHOD: **3-1/4" I.D. Hollow-stem Auger** COMPLETION DEPTH: **15.0'**

SAMPLER(S): **2" O.D. Split-barrel Sampler**

ELEV.	DEPTH, FEET	SAMPLE NUMBER	SAMPLE	SAMPLE EFFORT	N_{60}	SAMPLE REC-%	DESCRIPTION	NATURAL CONSISTENCY INDEX / NATURAL MOISTURE CONTENT (PLASTIC LIMIT — LIQUID LIMIT)	TEST RESULTS
939.8	0						ROOTMAT - 3 INCHES	10 20 30 40	
939.0							POSSIBLE TOPSOIL/STAINED CLAY - 9 INCHES		
		1		2/3/4	9	67	Very-stiff brown mottled with gray silty clay, trace fine to coarse sand, contains iron oxide stains (CL).		H=2.5-3.0
937.0							Very-stiff brown mottled with gray silty clay, little fine to coarse sand, trace fine to coarse gravel (CL).		
		2		2/2/3	6	53			H=2.0-2.5
934.5	5						Hard brown silty clay, trace fine to coarse sand (CL).		
		3		2/4/7	13	80			H=4.5
932.0							Hard brown clayey silt, some fine to coarse sand, little fine to coarse gravel (CL).		
		4		4/10/21	38	80			H=4.5+
	10								
		5		7/13/26	48	67			H=4.0
925.0	15						- No seepage noted. - Elevations estimated from Franklin County Auditor mapping and should be considered approximate.		
	20								
	25								

2010 NEW DEFAULT BORING LOG-W/ N60

WATER LEVEL: ▽ "Dry" ▼ 1.3
WATER NOTE: Caved at 11.2
DATE: 1/7/2019 1/8/2019

SYMBOLS USED TO INDICATE TEST RESULTS

G - Gradation, Q - Uncon Comp, T - Triax Comp, C - Consol. (See Separate Curves)

H - Penetrometer (tsf)
W - Unit Dry Wt (pcf)
D - Relative Dens (%)

Drill Rod Energy Ratio : 0.732
Last Calibration Date : 11/16/2017
Drill Rig Number : S&ME (R43)

JOB: 1117-18-041

PLATE 5

LOG OF BORING NO. B-3
GRENER PROPERTY - MULTI USE SPORTS COMPLEX
HILLIARD, OHIO

LOCATION: **See Plate 2 of Appendix.** ELEVATION: **940 ±** DATE: **1/4/19**

DRILLING METHOD: **3-1/4" I.D. Hollow-stem Auger** COMPLETION DEPTH: **15.5'**

SAMPLER(S): **2" O.D. Split-barrel Sampler**

ELEV.	DEPTH, FEET	SAMPLE NUMBER	SAMPLE	SAMPLE EFFORT	N_{60}	SAMPLE REC-%	DESCRIPTION	NATURAL CONSISTENCY INDEX / NATURAL MOISTURE CONTENT (PLASTIC LIMIT — LIQUID LIMIT)	TEST RESULTS
939.7	0						ROOTMAT - 4 INCHES	10 20 30 40	
939.0							POSSIBLE TOPSOIL/STAINED CLAY - 8 INCHES		
		1		2 / 3 / 6	11	80	Very-stiff to hard brown mottled with gray silty clay, little to some fine to coarse sand, trace fine to coarse gravel, few cobbles, contains iron oxide stains (CL).		H=2.0-4.0
		2		3 / 6 / 8	17	0			
	5	2S		7		60			H=3.5
		3		4 / 7 / 12	23	0			
		2S		13		100			H=2.0-3.0
		4		4 / 6 / 11	21	67			H=4.5
	10								
		5		31 / 22 / 18	49	0			
	15	2S		17		100			
924.5							- No seepage noted. - Encountered cobbles at 4.0', 14.0'. - Elevations estimated from Franklin County Auditor mapping and should be considered approximate.		
	20								
	25								

2010 NEW DEFAULT BORING LOG-W/ N60

WATER LEVEL: ▽ "Dry" ▼ 1.8
WATER NOTE: Caved at 11.5
DATE: 1/7/2019 1/8/2019

SYMBOLS USED TO INDICATE TEST RESULTS

G - Gradation, Q - Uncon Comp, T - Triax Comp, C - Consol. (See Separate Curves)

H - Penetrometer (tsf)
W - Unit Dry Wt (pcf)
D - Relative Dens (%)

Drill Rod Energy Ratio : 0.732
Last Calibration Date : 11/16/2017
Drill Rig Number : S&ME (R43)

JOB: 1117-18-041

PLATE 6

LOG OF BORING NO. B-4
GRENER PROPERTY - MULTI USE SPORTS COMPLEX
HILLIARD, OHIO

LOCATION: **See Plate 2 of Appendix.** ELEVATION: **938 ±** DATE: **1/4/19**

DRILLING METHOD: **3-1/4" I.D. Hollow-stem Auger** COMPLETION DEPTH: **20.5'**

SAMPLER(S): **2" O.D. Split-barrel Sampler**

ELEV.	DEPTH, FEET	SAMPLE NUMBER	SAMPLE	SAMPLE EFFORT	N_{60}	SAMPLE REC-%	DESCRIPTION	NATURAL CONSISTENCY INDEX / NATURAL MOISTURE CONTENT (PLASTIC LIMIT — LIQUID LIMIT; 10 20 30 40)	TEST RESULTS
937.7	0						ROOTMAT - 4 INCHES		
937.0							POSSIBLE TOPSOIL/STAINED CLAY - 8 INCHES		
		1		2/3/4	9	67	Stiff to very-stiff brown mottled with gray silty clay, trace fine to coarse sand, trace fine to coarse gravel (CL).		H=1.5-3.0
		2		2/2/3	6	40			H=1.5-4.0
932.5	5								
		3		2/2/5	9	53	Stiff to very-stiff brown silty clay, little fine to coarse sand, trace fine to coarse gravel (CL).		H=1.5-3.5
930.0									
		4		4/8/17	31	60	Very-stiff to hard gray clayey silt, some fine to coarse sand, little fine to coarse gravel, few cobbles (CL).		H=3.5-4.5
	10								
		5		2/7/9	20	67			H=4.5
	15								
		6		6/16/19	43	0			
	20	2S		20		40			H=4.5
917.5							- No seepage noted. - Placed hand slotted PVC for water observation. - 1/8/2019 water observed 2.0' below ground surface. - 1/24/2019 water observed at ground surface. - Elevations estimated from Franklin County Auditor mapping and should be considered		
	25								

2010 NEW DEFAULT BORING LOG-W/ N60

WATER LEVEL: ▽ 9.5 ▼ 2.0

WATER NOTE: Caved at 15.2

DATE: 1/4/2019 1/8/2019

SYMBOLS USED TO INDICATE TEST RESULTS

G - Gradation, Q - Uncon Comp, T - Triax Comp, C - Consol. (See Separate Curves)

H - Penetrometer (tsf)
W - Unit Dry Wt (pcf)
D - Relative Dens (%)

Drill Rod Energy Ratio : 0.732
Last Calibration Date : 11/16/2017
Drill Rig Number : S&ME (R43)

LOG OF BORING NO. B-4
GRENER PROPERTY - MULTI USE SPORTS COMPLEX
HILLIARD, OHIO

LOCATION: **See Plate 2 of Appendix.** ELEVATION: **938 ±** DATE: **1/4/19**

DRILLING METHOD: **3-1/4" I.D. Hollow-stem Auger** COMPLETION DEPTH: **20.5'**

SAMPLER(S): **2" O.D. Split-barrel Sampler**

ELEV.	DEPTH, FEET	SAMPLE NUMBER	SAMPLE	SAMPLE EFFORT	N_{60}	SAMPLE REC-%	DESCRIPTION	NATURAL CONSISTENCY INDEX / NATURAL MOISTURE CONTENT (PLASTIC LIMIT — LIQUID LIMIT)	TEST RESULTS
	25						approximate.	10 20 30 40	
	30								
	35								
	40								
	45								
	50								

WATER LEVEL: ▽ **9.5** ▼ **2.0**
WATER NOTE: **Caved at 15.2**
DATE: **1/4/2019** **1/8/2019**

SYMBOLS USED TO INDICATE TEST RESULTS

G - Gradation, Q - Uncon Comp, T - Triax Comp, C - Consol. (See Separate Curves)

H - Penetrometer (tsf)
W - Unit Dry Wt (pcf)
D - Relative Dens (%)

Drill Rod Energy Ratio : **0.732**
Last Calibration Date : **11/16/2017**
Drill Rig Number : **S&ME**
(R43)

JOB: 1117-18-041

PLATE 8

2010 NEW DEFAULT BORING LOG-W/ N60

LOG OF BORING NO. B-5
GRENER PROPERTY - MULTI USE SPORTS COMPLEX
HILLIARD, OHIO

LOCATION: **See Plate 2 of Appendix.** ELEVATION: **942 ±** DATE: **1/7/19**

DRILLING METHOD: **3-1/4" I.D. Hollow-stem Auger** COMPLETION DEPTH: **15.0'**

SAMPLER(S): **2" O.D. Split-barrel Sampler**

ELEV.	DEPTH, FEET	SAMPLE NUMBER	SAMPLE	SAMPLE EFFORT	N_{60}	SAMPLE REC-%	DESCRIPTION	NATURAL CONSISTENCY INDEX / NATURAL MOISTURE CONTENT (PLASTIC LIMIT — LIQUID LIMIT)	TEST RESULTS
941.7	0						ROOTMAT - 4 INCHES	10 20 30 40	
941.0							POSSIBLE TOPSOIL/STAINED CLAY - 8 INCHES		
		1		2 / 3 / 5	10	73	Stiff to very-stiff brown mottled with gray silty clay, trace fine to coarse sand, few iron oxide stains (CL).		H=1.5-2.5
939.0									
		2		6 / 9 / 9	22	0	Very-stiff to hard brown mottled with gray silty clay, little fine to coarse sand, little fine to coarse gravel (CL).		
	5	2S		11		100			H=2.5-3.5
		3		2 / 5 / 5	12	53			H=3.0-4.5
934.0									
		4		3 / 4 / 5	11	67	Very-stiff brown silty clay, little fine to coarse sand, trace fine gravel (CL).		H=2.0-4.0
	10								
930.0									
		5		10 / 7 / 6	16	73	Very-stiff to hard gray clayey silt, some fine to coarse sand, little fine to coarse gravel (CL).		H=3.5-4.5
927.0	15								
							- No seepage noted. - Elevations estimated from Franklin County Auditor mapping and should be considered approximate.		
	20								
	25								

2010 NEW DEFAULT BORING LOG-W/ N60

WATER LEVEL: ▽ "Dry" ▼ 3.1
WATER NOTE: Caved at 12.7
DATE: 1/7/2019 1/8/2019

SYMBOLS USED TO INDICATE TEST RESULTS

G - Gradation, Q - Uncon Comp, T - Triax Comp, C - Consol. (See Separate Curves)

H - Penetrometer (tsf)
W - Unit Dry Wt (pcf)
D - Relative Dens (%)

Drill Rod Energy Ratio : 0.732
Last Calibration Date : 11/16/2017
Drill Rig Number : S&ME (R43)

JOB: 1117-18-041

PLATE 9

LOG OF BORING NO. B-6
GRENER PROPERTY - MULTI USE SPORTS COMPLEX
HILLIARD, OHIO

LOCATION: **See Plate 2 of Appendix.** ELEVATION: **942 ±** DATE: **1/7/19**

DRILLING METHOD: **3-1/4" I.D. Hollow-stem Auger** COMPLETION DEPTH: **15.5'**

SAMPLER(S): **2" O.D. Split-barrel Sampler**

ELEV.	DEPTH, FEET	SAMPLE NUMBER	SAMPLE	SAMPLE EFFORT	N_{60}	SAMPLE REC-%	DESCRIPTION	NATURAL CONSISTENCY INDEX / NATURAL MOISTURE CONTENT (PLASTIC LIMIT — LIQUID LIMIT)	TEST RESULTS
941.6	0						ROOTMAT - 5 INCHES	10 20 30 40	
941.0							POSSIBLE TOPSOIL/STAINED CLAY - 7 INCHES		
		1		3 / 5 / 4	11	80	Very-stiff dark-brown silty clay, little fine to coarse sand (CH).		H=2.5-3.0 LL=54
939.0							Very-stiff brown mottled with gray silty clay, trace fine to coarse sand (CL).		
		2		2 / 3 / 4	9	47			H=1.5-2.5
936.5	5						Medium-stiff brown mottled with gray silty clay, trace fine to coarse sand (CL).		
		3		2 / 2 / 2	5	73			H=0.5-1.0
934.0							Hard brown clayey silt, some fine to coarse sand, little fine to coarse gravel (CL).		
		4		6 / 8 / 11	23	0			
	10	2S		10		60			H=4.0
		5		9 / 18 / 14	39	0			
926.5	15	2S		16		100			H=4.0-4.5
							- No seepage noted. - Elevations estimated from Franklin County Auditor mapping and should be considered approximate.		
	20								
	25								

2010 NEW DEFAULT BORING LOG-W/ N60

WATER LEVEL: ▽ "Dry" ▼ 1.8
WATER NOTE: Caved at 12.7
DATE: 1/7/2019 1/8/2019

SYMBOLS USED TO INDICATE TEST RESULTS

G - Gradation, Q - Uncon Comp, T - Triax Comp, C - Consol. (See Separate Curves)

H - Penetrometer (tsf)
W - Unit Dry Wt (pcf)
D - Relative Dens (%)

Drill Rod Energy Ratio : 0.732
Last Calibration Date : 11/16/2017
Drill Rig Number : S&ME (R43)

JOB: 1117-18-041

PLATE 10

LOG OF BORING NO. B-7
GRENER PROPERTY - MULTI USE SPORTS COMPLEX
HILLIARD, OHIO

LOCATION: **See Plate 2 of Appendix.** ELEVATION: **940 ±** DATE: **1/7/19**

DRILLING METHOD: **3-1/4" I.D. Hollow-stem Auger** COMPLETION DEPTH: **15.0'**

SAMPLER(S): **2" O.D. Split-barrel Sampler**

ELEV.	DEPTH, FEET	SAMPLE NUMBER	SAMPLE	SAMPLE EFFORT	N_{60}	SAMPLE REC-%	DESCRIPTION	NATURAL CONSISTENCY INDEX / NATURAL MOISTURE CONTENT (PLASTIC LIMIT — LIQUID LIMIT)	TEST RESULTS
939.7	0						ROOTMAT - 4 INCHES	10 20 30 40	
939.0							POSSIBLE TOPSOIL/STAINED CLAY - 8 INCHES		
		1		2 / 3 / 4	9	67	Very-stiff brown mottled with gray silty clay, trace fine to coarse sand, few roots (CL).		H=2.5-4.0
937.0									
		2		3 / 4 / 6	12	60	Very-stiff to hard brown mottled with gray silty clay, little fine to coarse sand, trace fine gravel (CL).		H=3.5-4.5
934.5	5								
		3		1 / 4 / 5	11	0	Very-stiff brown silty clay, trace to little fine to coarse sand (CL).		
		2S		7		80			H=2.0-2.5
		4		3 / 3 / 6	11	73			H=2.5-4.0
928.0	10								
		5		12 / 21 / 17	46	60	Stiff to very-stiff brown silty clay, some fine to coarse sand, trace fine gravel, contains silt zones, contains decayed wood (CL).		H=1.5-2.5
925.0	15								
							- No seepage noted. - Elevations estimated from Franklin County Auditor mapping and should be considered approximate.		
	20								
	25								

2010 NEW DEFAULT BORING LOG-W/ N60

WATER LEVEL: ▽ 3.7 ▼ 1.0

WATER NOTE: Caved at 13.3

DATE: 1/7/2019 1/8/2019

SYMBOLS USED TO INDICATE TEST RESULTS

G - Gradation, Q - Uncon Comp, T - Triax Comp, C - Consol. (See Separate Curves)

H - Penetrometer (tsf)
W - Unit Dry Wt (pcf)
D - Relative Dens (%)

Drill Rod Energy Ratio : 0.732
Last Calibration Date : 11/16/2017
Drill Rig Number : S&ME (R43)

JOB: 1117-18-041

PLATE 11

LOG OF BORING NO. B-8
GRENER PROPERTY - MULTI USE SPORTS COMPLEX
HILLIARD, OHIO

LOCATION: **See Plate 2 of Appendix.** ELEVATION: **939 ±** DATE: **1/4/19**

DRILLING METHOD: **3-1/4" I.D. Hollow-stem Auger** COMPLETION DEPTH: **20.0'**

SAMPLER(S): **2" O.D. Split-barrel Sampler**

ELEV.	DEPTH, FEET	SAMPLE NUMBER	SAMPLE	SAMPLE EFFORT	N_{60}	SAMPLE REC-%	DESCRIPTION	NATURAL CONSISTENCY INDEX / NATURAL MOISTURE CONTENT (PLASTIC LIMIT — LIQUID LIMIT)	TEST RESULTS
938.6	0						ROOTMAT - 5 INCHES	10 20 30 40	
938.0							POSSIBLE TOPSOIL/STAINED CLAY - 7 INCHES		
		1		2/3/5	10	60	Very-stiff to hard brown mottled with gray silty clay, some fine to coarse sand, little fine gravel, contains iron oxide stains (CL).		H=2.5-4.5
936.0									
		2		2/3/4	9	73	Hard brown mottled with gray clayey silt, some fine to coarse sand, little fine to coarse gravel, contains iron oxide stains (CL).		H=4.0-4.5
933.5	5								
		3		5/5/10	18	87	Very-stiff to hard brown silty clay, little fine to coarse sand, trace fine to coarse gravel (CL).		H=3.0-4.5
931.0									
		4		8/16/26	51	100	Hard brown clayey silt, some fine to coarse sand, little fine to coarse gravel (CL).		H=4.5+
	10								
927.0									
		5		22/17/21	46	60	Stiff to very-stiff gray clayey silt, little fine to coarse sand, trace fine to coarse gravel (CL).		H=1.5-3.5
	15								
922.0									
		6		2/7/14	26	73	Hard gray clayey silt, little fine to coarse sand, trace fine to coarse gravel (CL).		H=4.5+
919.0	20								
							- No seepage noted. - Elevations estimated from Franklin County Auditor mapping and should be considered approximate.		
	25								

2010 NEW DEFAULT BORING LOG-W/ N60

WATER LEVEL: ▽ "Dry" ▼ 13.5
WATER NOTE: Caved at 16.0
DATE: 1/4/2019 1/8/2019

SYMBOLS USED TO INDICATE TEST RESULTS

G - Gradation Q - Uncon Comp T - Triax Comp C - Consol.	See Separate Curves	H - Penetrometer (tsf) W - Unit Dry Wt (pcf) D - Relative Dens (%)

Drill Rod Energy Ratio : 0.732
Last Calibration Date : 11/16/2017
Drill Rig Number : S&ME (R43)

JOB: 1117-18-041

PLATE 12

LOG OF BORING NO. B-9
GRENER PROPERTY - MULTI USE SPORTS COMPLEX
HILLIARD, OHIO

LOCATION: **See Plate 2 of Appendix.** ELEVATION: **942 ±** DATE: **1/7/19**

DRILLING METHOD: **3-1/4" I.D. Hollow-stem Auger** COMPLETION DEPTH: **15.0'**

SAMPLER(S): **2" O.D. Split-barrel Sampler**

ELEV.	DEPTH, FEET	SAMPLE NUMBER	SAMPLE	SAMPLE EFFORT	N_{60}	SAMPLE REC-%	DESCRIPTION	NATURAL CONSISTENCY INDEX / NATURAL MOISTURE CONTENT (PLASTIC LIMIT — LIQUID LIMIT)	TEST RESULTS
941.8	0						ROOTMAT - 3 INCHES	10 20 30 40	
941.0							POSSIBLE TOPSOIL/STAINED CLAY - 9 INCHES		
		1		2/3/4	9	67	Very-stiff brown silty clay, trace fine to coarse sand (CL).		H=2.0-3.5
939.0			▼						
		2		2/4/5	11	80	Very-stiff to hard brown mottled with gray silty clay, little fine to coarse sand, trace fine to coarse gravel, contains iron oxide stains (CL).		H=2.0-4.5
936.5	5								
		3		3/3/5	10	87	Very-stiff brown silty clay, little fine to coarse sand, little fine to coarse gravel, (CL).		H=2.5-4.0
934.0									
		4		4/5/11	20	73	Very-stiff to hard brown silty clay, trace fine to coarse sand, trace fine to coarse gravel, (CL).		H=3.0-4.5
930.0	10								
							Very-dense gray silt, trace silty clay, trace fine sand, (ML).		
		5		30/36/30	81	47			
927.0	15								
							- No seepage noted. - Elevations estimated from Franklin County Auditor mapping and should be considered approximate.		
	20								
	25								

2010 NEW DEFAULT BORING LOG-W/ N60

WATER LEVEL: ▽ "Dry" ▼ 3.0
WATER NOTE: Caved at 12.5
DATE: 1/7/2019 1/8/2019

SYMBOLS USED TO INDICATE TEST RESULTS

G - Gradation, Q - Uncon Comp, T - Triax Comp, C - Consol. (See Separate Curves)

H - Penetrometer (tsf)
W - Unit Dry Wt (pcf)
D - Relative Dens (%)

Drill Rod Energy Ratio : 0.732
Last Calibration Date : 11/16/2017
Drill Rig Number : S&ME (R43)

JOB: 1117-18-041

PLATE 13

LOG OF BORING NO. B-10
GRENER PROPERTY - MULTI USE SPORTS COMPLEX
HILLIARD, OHIO

LOCATION: **See Plate 2 of Appendix.** ELEVATION: **943 ±** DATE: **1/8/19**

DRILLING METHOD: **3-1/4" I.D. Hollow-stem Auger** COMPLETION DEPTH: **15.0'**

SAMPLER(S): **2" O.D. Split-barrel Sampler**

ELEV.	DEPTH, FEET	SAMPLE NUMBER	SAMPLE	SAMPLE EFFORT	N_{60}	SAMPLE REC-%	DESCRIPTION	NATURAL CONSISTENCY INDEX / NATURAL MOISTURE CONTENT (PLASTIC LIMIT — LIQUID LIMIT; 10 20 30 40)	TEST RESULTS
942.7	0						ROOTMAT - 4 INCHES		
942.0							POSSIBLE TOPSOIL/STAINED CLAY - 8 INCHES		
		1		2 / 4 / 5	11	87	Very-stiff to hard brown mottled with gray silty clay, little fine to coarse sand, trace fine gravel, few iron oxide stains (CL).		H=2.5-4.5
		2		3 / 5 / 8	16	67			H=2.5-4.5
	5								
		3		2 / 3 / 5	10	73			H=3.5-4.5
935.0									
		4		2 / 4 / 9	16	67	Very-stiff to hard brown clayey silt, little fine to coarse sand, trace fine to coarse gravel, cotnains few iron oxide stains (CL).		H=3.5-4.5
	10								
931.0							Hard gray clayey silt, some fine to coarse sand, little fine to coarse gravel (CL).		
		5		4 / 8 / 14	27	80			H=4.5
928.0	15								
							- No seepage noted. - Elevations estimated from Franklin County Auditor mapping and should be considered approximate.		
	20								
	25								

2010 NEW DEFAULT BORING LOG-W/ N60

WATER LEVEL: ▽ "Dry" ▼ 0.0
WATER NOTE: Caved at 12.1 End of Day
DATE: 1/8/2019 1/8/2019

SYMBOLS USED TO INDICATE TEST RESULTS

G - Gradation, Q - Uncon Comp, T - Triax Comp, C - Consol. (See Separate Curves)

H - Penetrometer (tsf)
W - Unit Dry Wt (pcf)
D - Relative Dens (%)

Drill Rod Energy Ratio : 0.732
Last Calibration Date : 11/16/2017
Drill Rig Number : S&ME (R43)

JOB: 1117-18-041

PLATE 14

LOG OF BORING NO. B-11
GRENER PROPERTY - MULTI USE SPORTS COMPLEX
HILLIARD, OHIO

LOCATION: **See Plate 2 of Appendix.** ELEVATION: **942 ±** DATE: **1/8/19**

DRILLING METHOD: **3-1/4" I.D. Hollow-stem Auger** COMPLETION DEPTH: **15.0'**

SAMPLER(S): **2" O.D. Split-barrel Sampler**

ELEV.	DEPTH, FEET	SAMPLE NUMBER	SAMPLE	SAMPLE EFFORT	N_{60}	SAMPLE REC-%	DESCRIPTION	NATURAL CONSISTENCY INDEX / NATURAL MOISTURE CONTENT (PLASTIC LIMIT — LIQUID LIMIT)	TEST RESULTS
941.8	0						ROOTMAT - 3 INCHES	10 20 30 40	
941.0							POSSIBLE TOPSOIL/STAINED CLAY - 9 INCHES		
		1		3/4/6	12	53	Very-stiff brown mottled with gray silty clay, trace fine to coarse sand (CL).		H=2.5-3.0
939.0									
		2		3/3/3	7	47	Very-stiff to hard brown mottled with gray silty clay, little fine to coarse sand, trace fine to coarse gravel (CL).		H=2.5-4.5
	5								
		3		2/3/5	10	67			H=3.0-4.0
934.0									
		4		3/6/18	29	40	Hard brown becoming gray silty clay, little fine to coarse sand, trace fine to coarse gravel, few cobbles (CL).		H=4.5
	10								
930.0									
		5		4/8/12	24	73	Hard gray clayey silt, some fine to coarse sand, little fine to coarse gravel, few cobbles (CL).		H=4.5
927.0	15								
							- No seepage noted. - Encountered cobbles at 9.5' and 12.5'. - Elevations estimated from Franklin County Auditor mapping and should be considered approximate.		
	20								
	25								

2010 NEW DEFAULT BORING LOG-W/ N60

WATER LEVEL: ▽ "Dry" ▼ 3.5
WATER NOTE: Caved at 11.7 End of Day
DATE: 1/8/2019 1/8/2019

SYMBOLS USED TO INDICATE TEST RESULTS

G - Gradation, Q - Uncon Comp, T - Triax Comp, C - Consol. (See Separate Curves)

H - Penetrometer (tsf)
W - Unit Dry Wt (pcf)
D - Relative Dens (%)

Drill Rod Energy Ratio : 0.732
Last Calibration Date : 11/16/2017
Drill Rig Number : S&ME (R43)

JOB: 1117-18-041

PLATE 15

LOG OF BORING NO. B-12
GRENER PROPERTY - MULTI USE SPORTS COMPLEX
HILLIARD, OHIO

LOCATION: **See Plate 2 of Appendix.** ELEVATION: **940 ±** DATE: **1/7/19**

DRILLING METHOD: **3-1/4" I.D. Hollow-stem Auger** COMPLETION DEPTH: **35.0'**

SAMPLER(S): **2" O.D. Split-barrel Sampler**

ELEV.	DEPTH, FEET	SAMPLE NUMBER	SAMPLE	SAMPLE EFFORT	N_{60}	SAMPLE REC-%	DESCRIPTION	NATURAL CONSISTENCY INDEX / NATURAL MOISTURE CONTENT (PLASTIC LIMIT — LIQUID LIMIT)	TEST RESULTS
939.7	0						ROOTMAT - 4 INCHES	10 20 30 40	
939.0							POSSIBLE TOPSOIL/STAINED CLAY - 8 INCHES		
		1		2 / 3 / 5	10	73	Very-stiff brown mottled with gray silty clay, trace fine to coarse sand (CL).		H=2.0-2.5
937.0									
		2		3 / 6 / 8	17	80	Very-stiff to hard brown silty clay, some fine to coarse sand, trace to little fine gravel, contains iron oxide stains (CL).		H=3.5-4.5
	5								
		3		4 / 5 / 8	16	67			H=4.0-4.5
932.0									
		4		9 / 10 / 11	26	93	Very-stiff to hard brown clayey silt, some fine to coarse sand, little fine to coarse gravel (CL).		H=4.5+
	10								
		5		39 / 23 / 16	48	47			H=3.0-3.5
	15 ▼								
923.5									
		6		8 / 15 / 21	44	73	Hard gray clayey silt, little fine to coarse sand, trace to little fine gravel (CL).		H=4.5+
	20								
		7		2 / 7 / 17	29	73			H=4.5+
	25								

2010 NEW DEFAULT BORING LOG-W/ N60

WATER LEVEL: ▽ "Dry" ▼ 15.0
WATER NOTE: Caved at 32.6
DATE: 1/7/2019 1/8/2019

SYMBOLS USED TO INDICATE TEST RESULTS
G - Gradation, Q - Uncon Comp, T - Triax Comp, C - Consol. (See Separate Curves)
H - Penetrometer (tsf), W - Unit Dry Wt (pcf), D - Relative Dens (%)

Drill Rod Energy Ratio : 0.732
Last Calibration Date : 11/16/2017
Drill Rig Number : S&ME (R43)

JOB: 1117-18-041

-CONTINUED-

PLATE 16

LOG OF BORING NO. B-12
GRENER PROPERTY - MULTI USE SPORTS COMPLEX
HILLIARD, OHIO

LOCATION: **See Plate 2 of Appendix.** ELEVATION: **940 ±** DATE: **1/7/19**

DRILLING METHOD: **3-1/4" I.D. Hollow-stem Auger** COMPLETION DEPTH: **35.0'**

SAMPLER(S): **2" O.D. Split-barrel Sampler**

ELEV.	DEPTH, FEET	SAMPLE NUMBER	SAMPLE	SAMPLE EFFORT	N_{60}	SAMPLE REC-%	DESCRIPTION	NATURAL CONSISTENCY INDEX / NATURAL MOISTURE CONTENT (PLASTIC LIMIT — LIQUID LIMIT)	TEST RESULTS
	25						Hard gray clayey silt, little fine to coarse sand, trace to little fine gravel (CL).	10 20 30 40	
		8	■	21/12/24	44	93			H=4.5+
	30								
		9	■	29/50-5"R		100			H=4.5+
905.0	35						- No seepage noted. - Elevations estimated from Franklin County Auditor mapping and should be considered approximate.		
	40								
	45								
	50								

2010 NEW DEFAULT BORING LOG-W/ N60

WATER LEVEL: ▽ "Dry" ▼ 15.0
WATER NOTE: Caved at 32.6
DATE: 1/7/2019 1/8/2019

SYMBOLS USED TO INDICATE TEST RESULTS

G - Gradation, Q - Uncon Comp, T - Triax Comp, C - Consol. (See Separate Curves)

H - Penetrometer (tsf)
W - Unit Dry Wt (pcf)
D - Relative Dens (%)

Drill Rod Energy Ratio : 0.732
Last Calibration Date : 11/16/2017
Drill Rig Number : S&ME (R43)

JOB: 1117-18-041

PLATE 17

LOG OF BORING NO. B-13
GRENER PROPERTY - MULTI USE SPORTS COMPLEX
HILLIARD, OHIO

LOCATION: **See Plate 2 of Appendix.** ELEVATION: **939 ±** DATE: **1/3/19 - 1/4/19**

DRILLING METHOD: **3-1/4" I.D. Hollow-stem Auger** COMPLETION DEPTH: **37.7'**

SAMPLER(S): **2" O.D. Split-barrel Sampler**

ELEV.	DEPTH, FEET	SAMPLE NUMBER	SAMPLE	SAMPLE EFFORT	N_{60}	SAMPLE REC-%	DESCRIPTION	NATURAL CONSISTENCY INDEX / NATURAL MOISTURE CONTENT (PLASTIC LIMIT — LIQUID LIMIT)	TEST RESULTS
938.7	0						ROOTMAT - 3 INCHES	10 20 30 40	
938.0							POSSIBLE TOPSOIL/STAINED CLAY - 9 INCHES		
		1		3 / 4 / 5	11	60	Very-stiff brown silty clay, trace fine to coarse sand (CL).		H=2.5-4.0
936.0									
		2		2 / 4 / 7	13	67	Hard brown mottled with gray silty clay, little fine to coarse sand, trace fine to coarse gravel (CL).		H=4.5+
933.5	5								
		3		4 / 3 / 7	12	80	Very-stiff brown mottled with gray silty clay, little fine to coarse sand, trace fine to coarse gravel (CL).		H=2.5-3.5
930.1		4A		7 / 9 / 11	24	100			H=2.5
		4B				100	Hard gray clayey silt, some fine to coarse sand, little fine to coarse gravel, few cobbles (CL).		H=4.0-4.5
	10								
927.0									
		5		6 / 8 / 9	21	0	Very-stiff to hard gray clayey silt, little fine to coarse sand, trace fine to coarse gravel (CL).		
	15	2S		11		80			H=3.0-3.5
		6		4 / 13 / 14	33	93			H=3.0-4.5+
	20								
		7		12 / 19 / 19	46	47			H=4.5+
	25								

2010 NEW DEFAULT BORING LOG-W/ N60

WATER LEVEL: ▽ 28.6 ▼ 2.2
WATER NOTE: Caved at 34.1
DATE: 1/4/2019 1/8/2019

SYMBOLS USED TO INDICATE TEST RESULTS

G - Gradation, Q - Uncon Comp, T - Triax Comp, C - Consol. (See Separate Curves)

H - Penetrometer (tsf)
W - Unit Dry Wt (pcf)
D - Relative Dens (%)

Drill Rod Energy Ratio : 0.732
Last Calibration Date : 11/16/2017
Drill Rig Number : S&ME (R43)

JOB: 1117-18-041

-CONTINUED-

PLATE 18

LOG OF BORING NO. B-13
GRENER PROPERTY - MULTI USE SPORTS COMPLEX
HILLIARD, OHIO

LOCATION: **See Plate 2 of Appendix.** ELEVATION: **939 ±** DATE: **1/3/19 - 1/4/19**

DRILLING METHOD: **3-1/4" I.D. Hollow-stem Auger** COMPLETION DEPTH: **37.7'**

SAMPLER(S): **2" O.D. Split-barrel Sampler**

ELEV.	DEPTH, FEET	SAMPLE NUMBER	SAMPLE	SAMPLE EFFORT	N_{60}	SAMPLE REC-%	DESCRIPTION	NATURAL CONSISTENCY INDEX / NATURAL MOISTURE CONTENT (PLASTIC LIMIT — LIQUID LIMIT)	TEST RESULTS
	25							10 20 30 40	
913.0							Very-stiff to hard gray clayey silt, little fine to coarse sand, trace fine to coarse gravel (CL).		
							Dense gray silt, little clay, trace fine sand, (ML).		
		8		4 / 8 / 12	24	53			
	30								
907.0							Very-dense gray fine to coarse sand, some fine to coarse gravel, trace silt, few cobbles, (SW-SM).		
		9		12 / 50-5"R		56			
	35								
901.3		10		17 / 50-2"R		57			
							- Encountered probable boulder at 9.0'; offset and continued. - Encountered seepage at 22.4'. - Encountered water at 33.0'. - Encountered cobbles at 9.4'. - Elevations estimated from Franklin County Auditor mapping and should be considered approximate.		
	40								
	45								
	50								

2010 NEW DEFAULT BORING LOG-W/ N60

WATER LEVEL: ▽ 28.6 ▼ 2.2
WATER NOTE: Caved at 34.1
DATE: 1/4/2019 1/8/2019

SYMBOLS USED TO INDICATE TEST RESULTS

G - Gradation, Q - Uncon Comp, T - Triax Comp, C - Consol. (See Separate Curves)

H - Penetrometer (tsf)
W - Unit Dry Wt (pcf)
D - Relative Dens (%)

Drill Rod Energy Ratio : 0.732
Last Calibration Date : 11/16/2017
Drill Rig Number : S&ME (R43)

JOB: 1117-18-041

PLATE 19

LOG OF BORING NO. B-14
GRENER PROPERTY - MULTI USE SPORTS COMPLEX
HILLIARD, OHIO

LOCATION: **See Plate 2 of Appendix.** ELEVATION: **942 ±** DATE: **1/8/19**

DRILLING METHOD: **3-1/4" I.D. Hollow-stem Auger** COMPLETION DEPTH: **15.5'**

SAMPLER(S): **2" O.D. Split-barrel Sampler**

ELEV.	DEPTH, FEET	SAMPLE NUMBER	SAMPLE	SAMPLE EFFORT	N_{60}	SAMPLE REC-%	DESCRIPTION	NATURAL CONSISTENCY INDEX / NATURAL MOISTURE CONTENT (PLASTIC LIMIT — LIQUID LIMIT)	TEST RESULTS
941.5	0						ROOTMAT - 6 INCHES	10 20 30 40	
941.0							POSSIBLE TOPSOIL/STAINED CLAY - 6 INCHES		
		1		2 / 3 / 3	7	73	Very-stiff to hard brown mottled with gray silty clay, little fine to coarse sand, trace fine to coarse gravel, few iron oxide stains (CH).		H=3.0-3.5 LL=56
		2		2 / 4 / 6	12	80			H=2.0-2.5
	5								
		3		2 / 4 / 5	11	67			H=4.0-4.5
934.0							Hard brown clayey silt, some fine to coarse sand, trace fine to coarse gravel (CL).		
		4	2S	3 / 5 / 11 12	20	0 60			H=4.5
	10								
		5	2S	4 / 13 / 17 16	37	0 40			H=4.0
926.5	15						- No seepage noted. - Elevations estimated from Franklin County Auditor mapping and should be considered approximate.		
	20								
	25								

2010 NEW DEFAULT BORING LOG-W/ N60

WATER LEVEL: ▽ "Dry" ▼ 10.3
WATER NOTE: Caved at 10.8 End of Day
DATE: 1/8/2019 1/8/2019

SYMBOLS USED TO INDICATE TEST RESULTS

G - Gradation, Q - Uncon Comp, T - Triax Comp, C - Consol. (See Separate Curves)

H - Penetrometer (tsf)
W - Unit Dry Wt (pcf)
D - Relative Dens (%)

Drill Rod Energy Ratio : 0.732
Last Calibration Date : 11/16/2017
Drill Rig Number : S&ME (R43)

JOB: 1117-18-041

PLATE 20

LOG OF BORING NO. B-15
GRENER PROPERTY - MULTI USE SPORTS COMPLEX
HILLIARD, OHIO

LOCATION: **See Plate 2 of Appendix.** ELEVATION: **941 ±** DATE: **1/8/19**

DRILLING METHOD: **3-1/4" I.D. Hollow-stem Auger** COMPLETION DEPTH: **20.0'**

SAMPLER(S): **2" O.D. Split-barrel Sampler**

ELEV.	DEPTH, FEET	SAMPLE NUMBER	SAMPLE	SAMPLE EFFORT	N_{60}	SAMPLE REC-%	DESCRIPTION	NATURAL CONSISTENCY INDEX / NATURAL MOISTURE CONTENT (PLASTIC LIMIT — LIQUID LIMIT)	TEST RESULTS
940.7	0						ROOTMAT - 4 INCHES	10 20 30 40	
940.0							POSSIBLE TOPSOIL/STAINED CLAY - 8 INCHES		
		1		2 / 3 / 3	7	73	Stiff to very-stiff brown mottled with gray silty clay, trace fine to coarse sand, few roots (CL).		H=1.5-2.5
938.0									
		2		2 / 2 / 3	6	53	Stiff to very-stiff brown mottled with gray silty clay, trace fine to coarse sand, trace fine gravel (CL).		H=1.0-3.0
935.5	5								
		3		2 / 4 / 6	12	73	Very-stiff to hard brown mottled with gray silty clay, little fine to coarse sand, trace fine to coarse gravel, contains iron oxide stains (CL).		H=2.5-4.5
		4		6 / 9 / 7	20	80			H=1.5-3.5
929.0	10								
		5		7 / 17 / 21	46	80	Hard gray clayey silt, some fine to coarse sand, little fine to coarse gravel, few cobbles (CL).		H=4.5+
	15								
		6		11 / 27 / 23	61	93			H=4.5+
921.0	20						- No seepage noted. - Encountered cobbles at 15.0' to 16.5'. - Elevations estimated from Franklin County Auditor mapping and should be considered approximate.		
	25								

2010 NEW DEFAULT BORING LOG-W/ N60

WATER LEVEL: ▽ "Dry" ▼ 7.6
WATER NOTE: Caved at 15.0 End of Day
DATE: 1/8/2019 1/8/2019

SYMBOLS USED TO INDICATE TEST RESULTS

G - Gradation, Q - Uncon Comp, T - Triax Comp, C - Consol. (See Separate Curves)

H - Penetrometer (tsf)
W - Unit Dry Wt (pcf)
D - Relative Dens (%)

Drill Rod Energy Ratio : 0.732
Last Calibration Date : 11/16/2017
Drill Rig Number : S&ME (R43)

JOB: 1117-18-041

PLATE 21

LOG OF BORING NO. B-16
GRENER PROPERTY - MULTI USE SPORTS COMPLEX
HILLIARD, OHIO

LOCATION: **See Plate 2 of Appendix.** ELEVATION: **942 ±** DATE: **1/8/19**

DRILLING METHOD: **3-1/4" I.D. Hollow-stem Auger** COMPLETION DEPTH: **20.0'**

SAMPLER(S): **2" O.D. Split-barrel Sampler**

ELEV.	DEPTH, FEET	SAMPLE NUMBER	SAMPLE	SAMPLE EFFORT	N_{60}	SAMPLE REC-%	DESCRIPTION	NATURAL CONSISTENCY INDEX / NATURAL MOISTURE CONTENT (PLASTIC LIMIT — LIQUID LIMIT)	TEST RESULTS
941.7	0						ROOTMAT - 4 INCHES	10 20 30 40	
941.0							POSSIBLE TOPSOIL/STAINED CLAY - 8 INCHES		
		1		2/3/4	9	80	Very-stiff brown mottled with gray silty clay, trace fine to coarse sand, few iron oxide stains (CL).		H=2.5-3.0
		2		2/3/3	7	67			H=2.5
936.5	5								
		3		2/9/23	39	80	Very-stiff to hard brown clayey silt, little to some fine to coarse sand, trace to little fine to coarse gravel, few cobbles, contains iron oxide stains (CL).		H=3.5-4.5
		4		2/4/10	17	87		● × — ×	H=4.0-4.5
930.0	10								
		5		5/11/15	32	73	Hard gray clayey silt, some fine to coarse sand, little fine to coarse gravel, few cobbles (CL).		H=4.5+
	15								
		6		6/6/9	18	67			H=4.0-4.5
922.0	20								
	25						- No seepage noted. - Encountered cobbles at 10.0', 11.5', 13.0', 16.4' and 18.0'. - Placed hand slotted PVC for water obsevations. - 1/8/2019 water observed at ground surface (end of day). - 1/24/2019 water observed 2.6' below ground surface. - Elevations estimated from Franklin County		

2010 NEW DEFAULT BORING LOG-W/ N60

WATER LEVEL: ▽ "Dry" ▼ 0.0
WATER NOTE: Caved at 15.0 End of Day
DATE: 1/8/2019 1/8/2019

SYMBOLS USED TO INDICATE TEST RESULTS

G - Gradation, Q - Uncon Comp, T - Triax Comp, C - Consol. (See Separate Curves)

H - Penetrometer (tsf)
W - Unit Dry Wt (pcf)
D - Relative Dens (%)

Drill Rod Energy Ratio : 0.732
Last Calibration Date : 11/16/2017
Drill Rig Number : S&ME (R43)

JOB: 1117-18-041

-CONTINUED-

PLATE 22

LOG OF BORING NO. B-16
GRENER PROPERTY - MULTI USE SPORTS COMPLEX
HILLIARD, OHIO

LOCATION: **See Plate 2 of Appendix.** ELEVATION: **942 ±** DATE: **1/8/19**

DRILLING METHOD: **3-1/4" I.D. Hollow-stem Auger** COMPLETION DEPTH: **20.0'**

SAMPLER(S): **2" O.D. Split-barrel Sampler**

ELEV.	DEPTH, FEET	SAMPLE NUMBER	SAMPLE	SAMPLE EFFORT	N_{60}	SAMPLE REC-%	DESCRIPTION	NATURAL CONSISTENCY INDEX / NATURAL MOISTURE CONTENT (PLASTIC LIMIT — LIQUID LIMIT)	TEST RESULTS
	25						Auditor mapping and should be considered approximate.	10 20 30 40	
	30								
	35								
	40								
	45								
	50								

2010 NEW DEFAULT BORING LOG-W/ N60

WATER LEVEL: ▽ "Dry" ▼ 0.0
WATER NOTE: Caved at 15.0 End of Day
DATE: 1/8/2019 1/8/2019

SYMBOLS USED TO INDICATE TEST RESULTS

G - Gradation, Q - Uncon Comp, T - Triax Comp, C - Consol. (See Separate Curves)

H - Penetrometer (tsf)
W - Unit Dry Wt (pcf)
D - Relative Dens (%)

Drill Rod Energy Ratio : 0.732
Last Calibration Date : 11/16/2017
Drill Rig Number : S&ME (R43)

JOB: 1117-18-041

PLATE 23

LOG OF BORING NO. B-17
GRENER PROPERTY - MULTI USE SPORTS COMPLEX
HILLIARD, OHIO

LOCATION: **See Plate 2 of Appendix.** ELEVATION: **940 ±** DATE: **1/8/19**

DRILLING METHOD: **3-1/4" I.D. Hollow-stem Auger** COMPLETION DEPTH: **15.0'**

SAMPLER(S): **2" O.D. Split-barrel Sampler**

ELEV.	DEPTH, FEET	SAMPLE NUMBER	SAMPLE	SAMPLE EFFORT	N_{60}	SAMPLE REC-%	DESCRIPTION	NATURAL CONSISTENCY INDEX / NATURAL MOISTURE CONTENT (PLASTIC LIMIT — LIQUID LIMIT)	TEST RESULTS
939.5	0						ROOTMAT - 6 INCHES	10 20 30 40	
939.0							POSSIBLE TOPSOIL/STAINED CLAY - 6 INCHES		
		1		2 / 3 / 3	7	73	Very-stiff brown silty clay, trace fine to coarse sand, contains iron oxide stains (CL).		H=2.0-3.0
937.0									
		2		3 / 5 / 9	17	67	Very-stiff brown mottled with gray silty clay, trace fine to coarse sand (CL).		H=2.5-4.5
934.5	5								
		3		3 / 3 / 7	12	80	Very-stiff brown silty clay, little fine to coarse sand, trace fine gravel (CL).		H=3.0-3.5
932.0									
		4		2 / 6 / 12	22	80	Hard brown mottled with gray silty clay, little fine to coarse sand, trace fine gravel (CL).		H=4.5+
928.0	10								
		5		4 / 7 / 10	21	87	Hard gray clayey silt, little fine to coarse sand, little fine to coarse gravel (CL).		H=4.5+
925.0	15								
	20						- No seepage noted. - Elevations estimated from Franklin County Auditor mapping and should be considered approximate.		
	25								

2010 NEW DEFAULT BORING LOG-W/ N60

WATER LEVEL: ▽ "Dry" ▼ 10.1
WATER NOTE: Caved at 11.3 End of Day
DATE: 1/8/2019 1/8/2019

SYMBOLS USED TO INDICATE TEST RESULTS

G - Gradation, Q - Uncon Comp, T - Triax Comp, C - Consol. (See Separate Curves)

H - Penetrometer (tsf)
W - Unit Dry Wt (pcf)
D - Relative Dens (%)

Drill Rod Energy Ratio : 0.732
Last Calibration Date : 11/16/2017
Drill Rig Number : S&ME (R43)

JOB: 1117-18-041

PLATE 24

LOG OF BORING NO. B-18
GRENER PROPERTY - MULTI USE SPORTS COMPLEX
HILLIARD, OHIO

LOCATION: **See Plate 2 of Appendix.** ELEVATION: **938 ±** DATE: **1/3/19**

DRILLING METHOD: **3-1/4" I.D. Hollow-stem Auger** COMPLETION DEPTH: **20.0'**

SAMPLER(S): **2" O.D. Split-barrel Sampler**

ELEV.	DEPTH, FEET	SAMPLE NUMBER	SAMPLE	SAMPLE EFFORT	N_{60}	SAMPLE REC-%	DESCRIPTION	NATURAL CONSISTENCY INDEX / NATURAL MOISTURE CONTENT (PLASTIC LIMIT — LIQUID LIMIT)	TEST RESULTS
937.7	0						ROOTMAT - 3 INCHES	10 20 30 40	
937.0							POSSIBLE TOPSOIL/STAINED CLAY - 9 INCHES		
		1		2 / 2 / 4	7	67	POSSIBLE FILL: Stiff to very-stiff brown silty clay, some fine to coarse sand, trace fine to coarse gravel (CL).		H=1.5-3.5 G
935.0							POSSIBLE FILL: Hard brown mottled with gray silty clay, little fine to coarse sand, trace fine to coarse gravel, contains possible brick or clay tile fragments (CL).		
		2		2 / 5 / 6	13	73			H=4.0-4.5
932.5	5						Very-stiff to hard brown silty clay, little fine to coarse sand, trace fine gravel, contains iron oxide stains (CL).		
		3		3 / 4 / 6	12	53			H=3.5-4.5
930.0							Very-stiff to hard brown silty clay, some fine to coarse sand, little fine to coarse gravel (CL).		
		4		2 / 3 / 4	9	67			H=3.0-4.5
926.0	10						Stiff brown silty clay, little fine to coarse sand, trace fine gravel, cotnains silt zones (CL).		
		5		9 / 14 / 16	37	40			H=1.0-2.0
921.0	15						Very-stiff to hard gray clayey silt, little fine to coarse sand, trace fine to coarse gravel (CL).		
		6		4 / 8 / 14	27	100			H=3.5-4.5
918.0	20						- Encountered seepage at 1.0' and 14.0'. - Elevations estimated from Franklin County Auditor mapping and should be considered approximate.		
	25								

2010 NEW DEFAULT BORING LOG-W/ N60

WATER LEVEL: ▽ "Dry" ▼ 4.0
WATER NOTE: Caved at 16.5
DATE: 1/3/2019 1/8/2019

SYMBOLS USED TO INDICATE TEST RESULTS

G - Gradation, Q - Uncon Comp, T - Triax Comp, C - Consol. (See Separate Curves)

H - Penetrometer (tsf)
W - Unit Dry Wt (pcf)
D - Relative Dens (%)

Drill Rod Energy Ratio : 0.732
Last Calibration Date : 11/16/2017
Drill Rig Number : S&ME (R43)

JOB: 1117-18-041

PLATE 25

LOG OF BORING NO. B-19
GRENER PROPERTY - MULTI USE SPORTS COMPLEX
HILLIARD, OHIO

LOCATION: **See Plate 2 of Appendix.** ELEVATION: **942 ±** DATE: **1/2/19**

DRILLING METHOD: **3-1/4" I.D. Hollow-stem Auger** COMPLETION DEPTH: **34.5'**

SAMPLER(S): **2" O.D. Split-barrel Sampler**

ELEV.	DEPTH, FEET	SAMPLE NUMBER	SAMPLE	SAMPLE EFFORT	N_{60}	SAMPLE REC-%	DESCRIPTION	NATURAL CONSISTENCY INDEX / NATURAL MOISTURE CONTENT (PLASTIC LIMIT — LIQUID LIMIT)	TEST RESULTS
941.1	0						ROOTMAT/TOPSOIL - 11 INCHES	10 20 30 40	
		1		4 / 5 / 6	13	73	POSSIBLE FILL: Very-stiff to hard brown mottled with gray silty clay, trace fine to coarse sand, trace fine gravel (CL).		H=3.0-4.5
939.0									
		2		3 / 4 / 4	10	40	POSSIBLE FILL: Very-stiff brown mottled with gray silty clay, little fine to coarse sand, trace fine to coarse gravel (CL).		H=2.0-4.0
936.5	5								
		3		7 / 5 / 6	13	47	POSSIBLE FILL: Very-stiff to hard brown clayey silt, little fine to coarse sand, trace fine to coarse gravel, few cobbles (CL).		H=2.0-3.5
		4		1 / 4 / 15	23	40			H=4.0-4.5
930.5	10								
		5		9 / 29 / 24	65	0	Very-stiff brown clayey silt, little fine to coarse sand, trace fine to coarse gravel, few roots, contains iron oxide stains (CL).		
	15	2S		16		100			H=2.0-2.5
925.0									
		6		9 / 14 / 20	41	73	Very-stiff to hard gray clayey silt, little fine to coarse sand, trace fine to coarse gravel, few cobbles (CL).		H=4.5+
	20								
		7		7 / 12 / 17	35	73			H=4.5+
	25								

WATER LEVEL: "Dry" 8.5
WATER NOTE: Caved at 27.5
DATE: 1/2/2019 1/8/2019

SYMBOLS USED TO INDICATE TEST RESULTS
G - Gradation, Q - Uncon Comp, T - Triax Comp, C - Consol. (See Separate Curves)
H - Penetrometer (tsf), W - Unit Dry Wt (pcf), D - Relative Dens (%)

Drill Rod Energy Ratio : 0.732
Last Calibration Date : 11/16/2017
Drill Rig Number : S&ME (R43)

JOB: 1117-18-041

-CONTINUED-

PLATE 26

2010 NEW DEFAULT BORING LOG-W/ N60

LOG OF BORING NO. B-19
GRENER PROPERTY - MULTI USE SPORTS COMPLEX
HILLIARD, OHIO

LOCATION: **See Plate 2 of Appendix.** ELEVATION: **942 ±** DATE: **1/2/19**

DRILLING METHOD: **3-1/4" I.D. Hollow-stem Auger** COMPLETION DEPTH: **34.5'**

SAMPLER(S): **2" O.D. Split-barrel Sampler**

ELEV.	DEPTH, FEET	SAMPLE NUMBER	SAMPLE	SAMPLE EFFORT	N_{60}	SAMPLE REC-%	DESCRIPTION	NATURAL CONSISTENCY INDEX / NATURAL MOISTURE CONTENT (PLASTIC LIMIT — LIQUID LIMIT)	TEST RESULTS
	25						Very-stiff to hard gray clayey silt, little fine to coarse sand, trace fine to coarse gravel, few cobbles (CL).	10 20 30 40	
		8		12 / 14 / 28	51	40			H=4.5+
	30								
		9		15 / 31 / 48	96	87			H=3.0-4.5+
907.5									
	35						- No seepage noted. - Encountered cobbles at 9.4'. - Placed hand slotted PVC for water observation. - 1/8/2019 water observed 8.5' below ground surface. - 1/24/2019 water observed 9.4' below ground surface. - Elevations estimated from Franklin County Auditor mapping and should be considered approximate.		
	40								
	45								
	50								

2010 NEW DEFAULT BORING LOG-W/ N60

WATER LEVEL: ▽ "Dry" ▼ 8.5
WATER NOTE: Caved at 27.5
DATE: 1/2/2019 1/8/2019

SYMBOLS USED TO INDICATE TEST RESULTS

G - Gradation, Q - Uncon Comp, T - Triax Comp, C - Consol. (See Separate Curves)

H - Penetrometer (tsf)
W - Unit Dry Wt (pcf)
D - Relative Dens (%)

Drill Rod Energy Ratio : 0.732
Last Calibration Date : 11/16/2017
Drill Rig Number : S&ME (R43)

JOB: 1117-18-041

PLATE 27

LOG OF BORING NO. B-20
GRENER PROPERTY - MULTI USE SPORTS COMPLEX
HILLIARD, OHIO

LOCATION: **See Plate 2 of Appendix.** ELEVATION: **942 ±** DATE: **1/3/19**

DRILLING METHOD: **3-1/4" I.D. Hollow-stem Auger** COMPLETION DEPTH: **39.4'**

SAMPLER(S): **2" O.D. Split-barrel Sampler**

ELEV.	DEPTH, FEET	SAMPLE NUMBER	SAMPLE	SAMPLE EFFORT	N_{60}	SAMPLE REC-%	DESCRIPTION	NATURAL CONSISTENCY INDEX / NATURAL MOISTURE CONTENT (PLASTIC LIMIT — LIQUID LIMIT)	TEST RESULTS
941.3	0						ROOTMAT/TOPSOIL - 10 INCHES	10 20 30 40	
		1		3 / 5 / 7	15	73	Very-stiff brown mottled with gray silty clay, trace to little fine to coarse sand, trace fine gravel (CL).		H=3.0-4.0
		2		5 / 8 / 10	22	80			H=3.5-4.0
936.5	5								
		3		3 / 6 / 6	15	80	Very-stiff brown silty clay, little fine to coarse sand, trace fine to coarse gravel (CL).		H=2.5-4.0
934.0									
		4		2 / 5 / 9	17	53	Very-stiff brown silty clay, little fine to coarse sand, trace fine to coarse gravel (CL).		H=3.5-4.0
	10								
		5		3 / 14 / 22	44	0			
	15	2S		20		80			H=2.0-2.5
925.0									
		6		6 / 28 / 33	74	47	Dense gray silt, some to "and" fine to coarse sand, some fine to coarse gravel, trace clay (ML).		
	20								
920.0									
		7		9 / 13 / 16	35	0	Hard gray clayey silt, little fine to coarse sand, trace fine to coarse gravel (CL).		
	25								

WATER LEVEL: **18.2** **1.0**
WATER NOTE: **Caved at 35.7**
DATE: **1/3/2019** **1/8/2019**

SYMBOLS USED TO INDICATE TEST RESULTS

G - Gradation, Q - Uncon Comp, T - Triax Comp, C - Consol. (See Separate Curves)

H - Penetrometer (tsf)
W - Unit Dry Wt (pcf)
D - Relative Dens (%)

Drill Rod Energy Ratio : 0.732
Last Calibration Date : 11/16/2017
Drill Rig Number : S&ME (R43)

JOB: 1117-18-041

-CONTINUED-

PLATE 28

2010 NEW DEFAULT BORING LOG-W/ N60

LOG OF BORING NO. B-20
GRENER PROPERTY - MULTI USE SPORTS COMPLEX
HILLIARD, OHIO

LOCATION: **See Plate 2 of Appendix.** ELEVATION: **942 ±** DATE: **1/3/19**

DRILLING METHOD: **3-1/4" I.D. Hollow-stem Auger** COMPLETION DEPTH: **39.4'**

SAMPLER(S): **2" O.D. Split-barrel Sampler**

ELEV.	DEPTH, FEET	SAMPLE NUMBER	SAMPLE	SAMPLE EFFORT	N_{60}	SAMPLE REC-%	DESCRIPTION	NATURAL CONSISTENCY INDEX / NATURAL MOISTURE CONTENT (PLASTIC LIMIT — LIQUID LIMIT)	TEST RESULTS
	25	2S	■	17		100	Hard gray clayey silt, little fine to coarse sand, trace fine to coarse gravel (CL).	10 20 30 40	H=4.5
914.5									
		8	■	3 / 10 / 9	23	60	Medium-dense gray and brown fine to coarse sand, some fine gravel, little clay (SP-SC).		
	30								
910.0									
		9	■	16 / 32 / 36	83	67	Very-dense brown silt, trace fine sand, trace clay (ML).		
	35								
905.0									
		10	■	16 / 50-5"R		67	Hard gray clayey silt, some fine to coarse sand, little fine to coarse gravel (CL).		H=4.5+
902.6									
	40						- Encountered seepage at 35.3'. - Encountered cobbles at 11.5'. - Elevations estimated from Franklin County Auditor mapping and should be considered approximate.		
	45								
	50								

WATER LEVEL: ▽ **18.2** ▼ **1.0**
WATER NOTE: **Caved at 35.7**
DATE: **1/3/2019** **1/8/2019**

SYMBOLS USED TO INDICATE TEST RESULTS

G - Gradation, Q - Uncon Comp, T - Triax Comp, C - Consol. — See Separate Curves

H - Penetrometer (tsf)
W - Unit Dry Wt (pcf)
D - Relative Dens (%)

Drill Rod Energy Ratio : 0.732
Last Calibration Date : 11/16/2017
Drill Rig Number : S&ME (R43)

JOB: 1117-18-041

PLATE 29

2010 NEW DEFAULT BORING LOG-W/ N60

LOG OF BORING NO. B-21
GRENER PROPERTY - MULTI USE SPORTS COMPLEX
HILLIARD, OHIO

LOCATION: **See Plate 2 of Appendix.** ELEVATION: **940 ±** DATE: **1/8/19**

DRILLING METHOD: **3-1/4" I.D. Hollow-stem Auger** COMPLETION DEPTH: **20.5'**

SAMPLER(S): **2" O.D. Split-barrel Sampler**

ELEV.	DEPTH, FEET	SAMPLE NUMBER	SAMPLE	SAMPLE EFFORT	N_{60}	SAMPLE REC-%	DESCRIPTION	NATURAL CONSISTENCY INDEX / NATURAL MOISTURE CONTENT (PLASTIC LIMIT — LIQUID LIMIT)	TEST RESULTS
939.7	0						ROOTMAT - 3 INCHES	10 20 30 40	
939.0							POSSIBLE TOPSOIL/STAINED CLAY - 9 INCHES		
		1		1 / 3 / 6	11	60	Stiff to very-stiff brown silty clay, little fine to coarse sand, trace fine gravel, (CH).		H=1.7-2.5 LL=53
937.0							Hard brown mottled with gray silty clay, little fine to coarse sand, trace fine gravel (CL).		
		2		3 / 5 / 9	17	67			H=4.0-4.5
934.5	5						Very-stiff brown silty clay, little fine to coarse sand, trace fine gravel (CL).		
		3		2 / 3 / 4	9	67			H=2.0-3.5
932.0							Very-stiff brown silty clay, little fine to coarse sand, trace fine to coarse gravel, few cobbles (CL).		
		4		1 / 6 / 9	18	60			H=3.5-4.0
	10								
		5		14 / 28 / 36	78	40			H=4.5+
	15								
923.0							Very-stiff gray clayey silt, some fine to coarse sand, little fine to coarse gravel, few cobbles (CL).		
		6		8 / 8 / 15	28	0			
919.5	20	2S		15		80			H=2.5-4.0
	25						- No seepage noted. - Encoutnered cobbles at 10.5'. - Elevations estimated from Franklin County Auditor mapping and should be considered approximate.		

2010 NEW DEFAULT BORING LOG-W/ N60

WATER LEVEL: ▽ "Dry" ▼ 1.6
WATER NOTE: Caved at 16.9
DATE: 1/7/2019 1/8/2019

SYMBOLS USED TO INDICATE TEST RESULTS

G - Gradation, Q - Uncon Comp, T - Triax Comp, C - Consol. (See Separate Curves)

H - Penetrometer (tsf)
W - Unit Dry Wt (pcf)
D - Relative Dens (%)

Drill Rod Energy Ratio : 0.732
Last Calibration Date : 11/16/2017
Drill Rig Number : S&ME (R43)

JOB: 1117-18-041

PLATE 30

LOG OF BORING NO. B-22
GRENER PROPERTY - MULTI USE SPORTS COMPLEX
HILLIARD, OHIO

LOCATION: **See Plate 2 of Appendix.** ELEVATION: **938 ±** DATE: **1/3/19**

DRILLING METHOD: **3-1/4" I.D. Hollow-stem Auger** COMPLETION DEPTH: **15.0'**

SAMPLER(S): **2" O.D. Split-barrel Sampler**

ELEV.	DEPTH, FEET	SAMPLE NUMBER	SAMPLE	SAMPLE EFFORT	N_{60}	SAMPLE REC-%	DESCRIPTION	NATURAL CONSISTENCY INDEX / NATURAL MOISTURE CONTENT (PLASTIC LIMIT — LIQUID LIMIT)	TEST RESULTS
937.6	0						ROOTMAT - 5 INCHES	10 20 30 40	
937.0							POSSIBLE TOPSOIL/STAINED CLAY - 7 INCHES		
		1		3 / 3 / 4	9	73	Stiff to very-stiff brown mottled with gray silty clay, little fine to coarse sand, trace fine gravel (CL).		H=1.5-3.5
935.0							Stiff brown silty clay, little fine to coarse sand, trace fine gravel (CL).		
		2		2 / 3 / 4	9	47			H=1.0-1.5
932.5	5						Very-dense brown fine to coarse sand, little fine to coarse gravel, "and" silty clay, few cobbles (SW-SC).		
		3		10 / 40 / 16	68	0			G
929.8		2S		10		100			
		4		50-3"R		0	Hard brown clayey silt, little fine to coarse sand, trace fine to coarse gravel, few cobbles (CL).		
	10	2S		32		100			H=4.5+
926.0							Stiff to very-stiff gray clayey silt, trace to little fine to coarse sand (CL).		
		5		2 / 16 / 6	27	40			H=1.0-2.5
923.0	15								
	20								
	25								

- Encountered seepage at 5.0'.
- Encountered cobbles at 6.0', 8.5'.
- Elevations estimated from Franklin County Auditor mapping and should be considered approximate.

WATER LEVEL: ▽ 12.3 ▼ 1.3
WATER NOTE: Caved at 13.7
DATE: 1/3/2019 1/8/2019

SYMBOLS USED TO INDICATE TEST RESULTS

G - Gradation, Q - Uncon Comp, T - Triax Comp, C - Consol. (See Separate Curves)

H - Penetrometer (tsf)
W - Unit Dry Wt (pcf)
D - Relative Dens (%)

Drill Rod Energy Ratio : 0.732
Last Calibration Date : 11/16/2017
Drill Rig Number : S&ME (R43)

JOB: 1117-18-041

PLATE 31

2010 NEW DEFAULT BORING LOG-W/ N60

SUMMARY OF LABORATORY TEST RESULTS

BORING	G'int Id.	MC	LL	PL	PI	GRADATION			COMPACTION		TRIAXIAL				DIRECT SHEAR			UNCONFIN COMPRESS	CONSOLID.	SPECIFIC GRAVITY	UNIT WEIGHT DRY	REMOLDED	PERMEABILITY				RELATIVE DENSITY	LOI	ROCK CORE	SHELBY TUBE	Slake Index
						sieve	Hydrometer short	Hydrometer long	standard	modified	unconsol. undrain	consolid undrain w/ pores	drained	drained	undrain	residual							cohesive	non/cohes	wall rigid	wall flexible					
		%	%	%	%	* SEE INDIVIDUAL TEST CURVES															PCF						%	%			
B-1	1.75	24.6	48	21	27																										
B-3	1.75	20.0	39	19	20																										
B-6	1.75	26.5	54	21	33																										
B-6	6.75	34.4	47	20	27																										
B-8	4.25	13.8	25	16	9																										
B-10	1.75	14.5	31	17	14																										
B-12	19.25	10.0	22	14	8																										
B-14	1.75	27.0	56	22	34																										
B-16	9.25	11.4	21	15	6																										
B-18	1.75	20.4	35	19	16	*	*																								
B-19	6.75	14.1	23	16	7																										
B-21	1.75	25.3	53	19	34																										
B-22	8.25					*	*																								

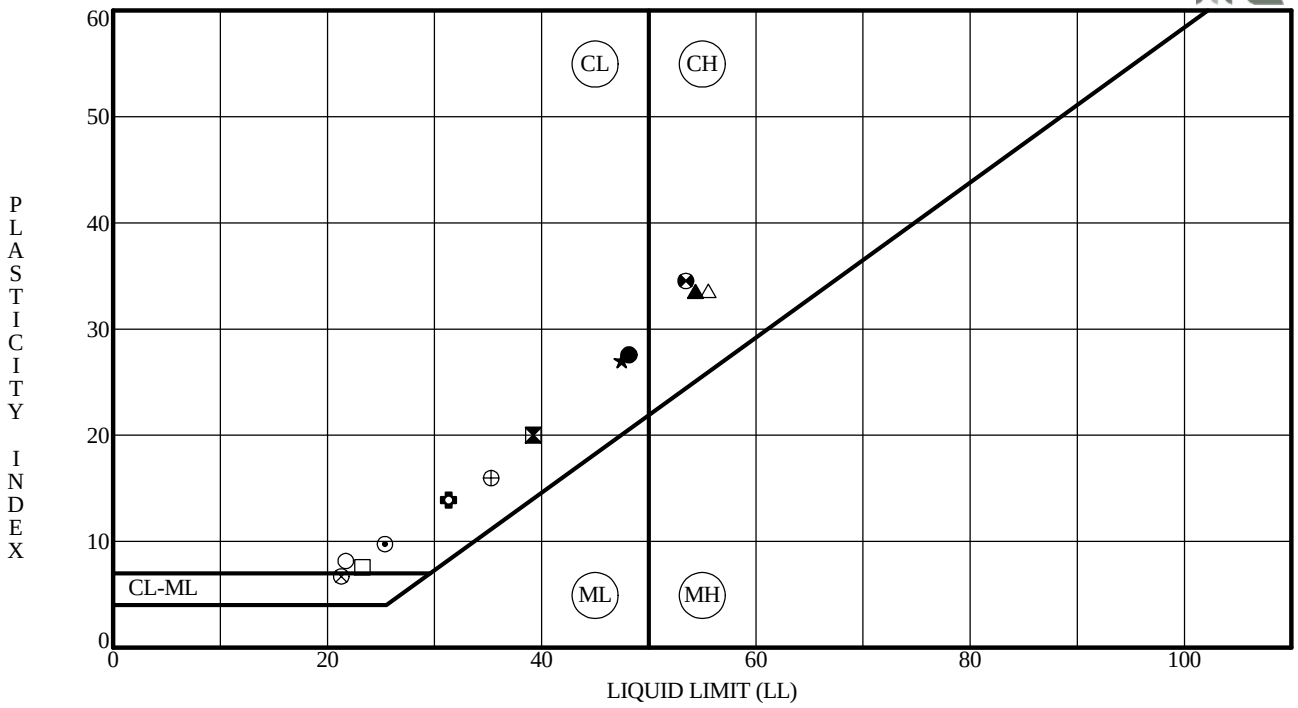
SUM REG

PLATE 32

TESTING SUMMARY - STANDARD

PROJECT GRENER PROPERTY - MULTI USE SPORTS COMPLEX
LOCATION HILLIARD, OHIO
JOB NO. 1117-18-041 DATE 2/7/19

ATTERBERG LIMITS' RESULTS - ASTM D4318



	Specimen Id.	Depth	MC	LL	PL	PI	Fines	ASTM Classification
●	**B-1**	**1.75**	**25**	**48**	**21**	**27**		
⊠	**B-3**	**1.75**	**20**	**39**	**19**	**20**		
▲	**B-6**	**1.75**	**26**	**54**	**21**	**33**		
★	**B-6**	**6.75**	**34**	**47**	**20**	**27**		
⊙	**B-8**	**4.25**	**14**	**25**	**16**	**9**		
✿	**B-10**	**1.75**	**15**	**31**	**17**	**14**		
○	**B-12**	**19.25**	**10**	**22**	**14**	**8**		
△	**B-14**	**1.75**	**27**	**56**	**22**	**34**		
⊗	**B-16**	**9.25**	**11**	**21**	**15**	**6**		
⊕	**B-18**	**1.75**	**20**	**35**	**19**	**16**	**74.0**	**LEAN CLAY with SAND CL**
□	**B-19**	**6.75**	**14**	**23**	**16**	**7**		
☢	**B-21**	**1.75**	**25**	**53**	**19**	**34**		

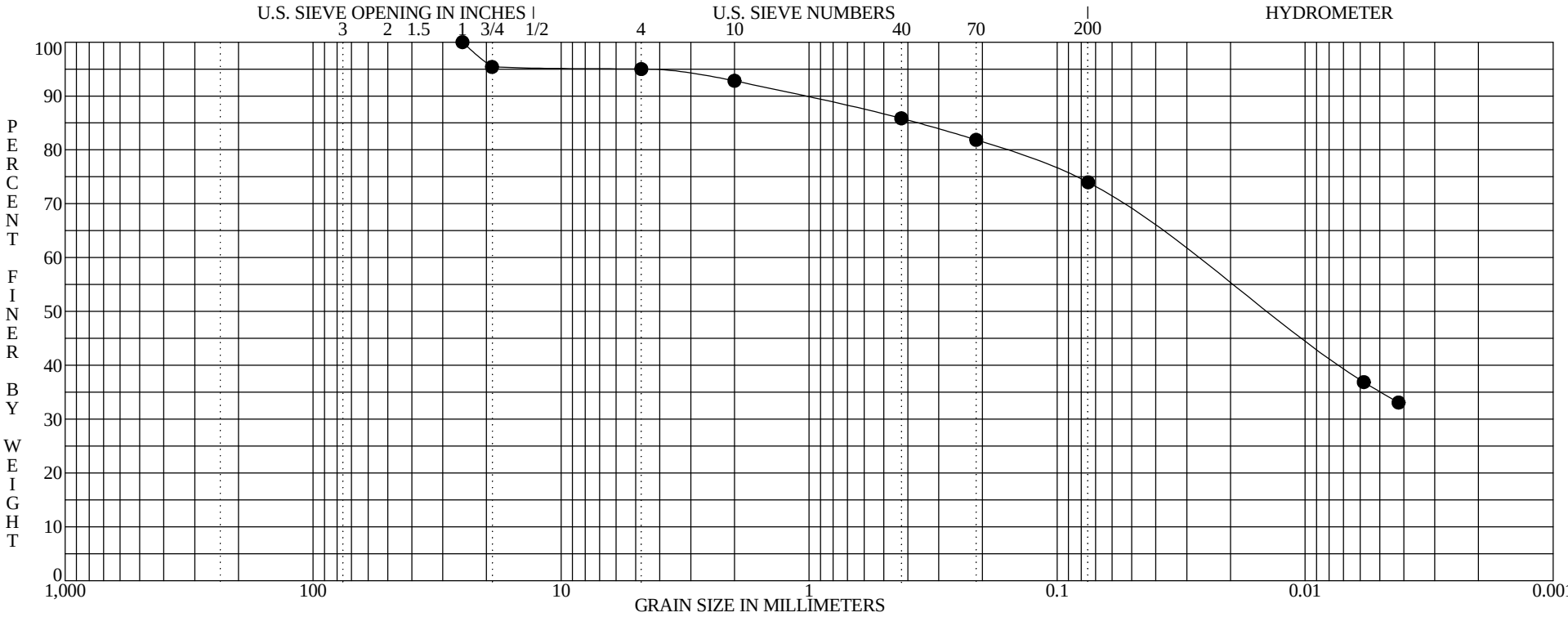
PROJECT GRENER PROPERTY - MULTI USE SPORTS COMPLEX

LOCATION HILLIARD, OHIO

JOB NO. 1117-18-041 **DATE** 2/7/19

ALPI-REG

GRN-REG



BOULDERS	COBBLES	GRAVEL		SAND			SILT OR CLAY
		coarse	fine	coarse	medium	fine	

	Specimen Identification - Depth	Classification	MC%	LL	PL	PI	Cc	Cu
●	**B-18 S-1 1.0' to 2.0'**	**Brown silty clay, some fine to coarse sand, trace fine to coarse gravel.**	**20**	**35**	**19**	**16**		

	Specimen Identification - Depth	D100	D95	D60	D50	D10	%Gravel	%Sand	%Silt	%Clay
●	**B-18 S-1 1.0' to 2.0'**	**25.0000**	**4.7280**	**0.0286**	**0.0143**		**5.0**	**21.0**	**38.9**	**35.1**

ASTM D422

GRADATION CURVE

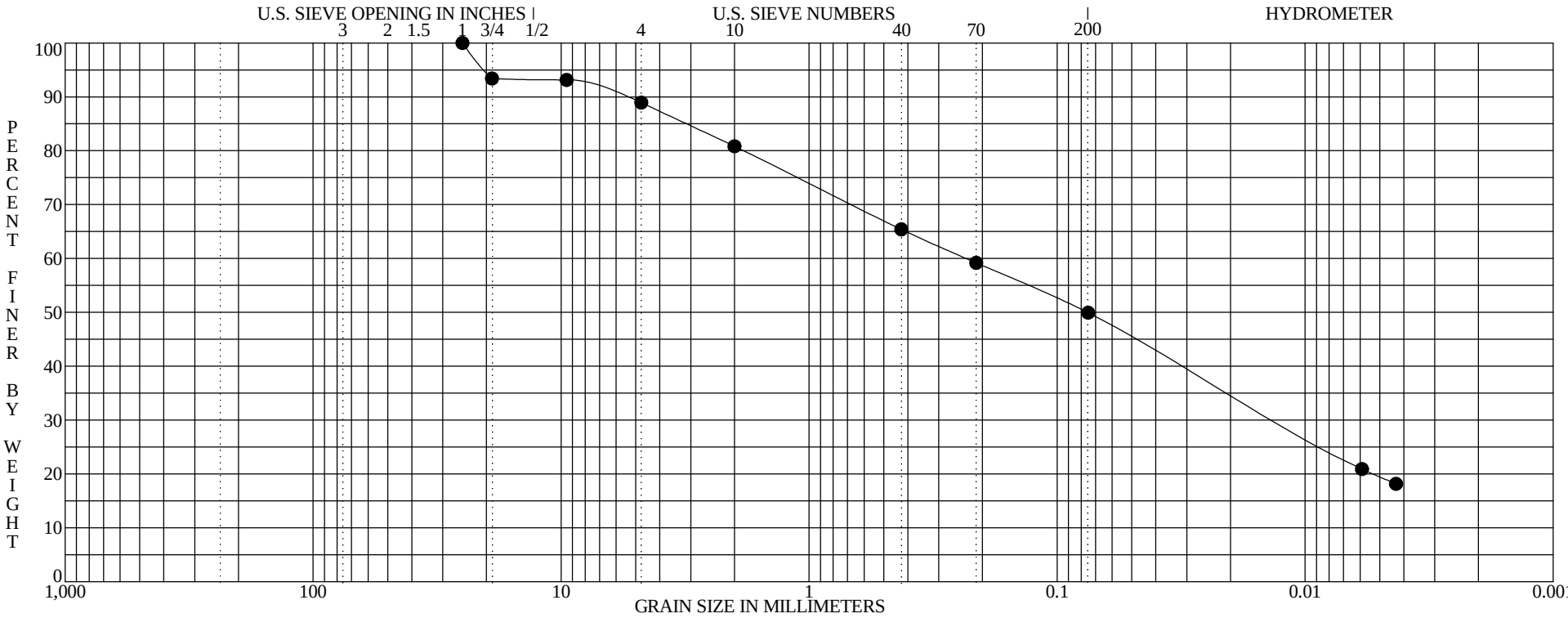
PROJECT GRENER PROPERTY - MULTI USE SPORTS COMPLEX

LOCATION HILLIARD, OHIO

JOB NO. 1117-18-041 **DATE** 2/7/19

PLATE 34

GRN-REG



BOULDERS	COBBLES	GRAVEL		SAND			SILT OR CLAY
		coarse	fine	coarse	medium	fine	

Specimen Identification - Depth	Classification	MC%	LL	PL	PI	Cc	Cu
● **B-22 S-3 7.5' to 8.0'**	**Brown fine to coarse sand, little fine to coarse gravel, "and" silty clay.**						

Specimen Identification - Depth	D100	D95	D60	D50	D10	%Gravel	%Sand	%Silt	%Clay
● **B-22 S-3 7.5' to 8.0'**	**25.0000**	**20.2964**	**0.2321**	**0.0756**		**11.1**	**39.0**	**30.5**	**19.5**

ASTM D422

GRADATION CURVE

PROJECT GRENER PROPERTY - MULTI USE SPORTS COMPLEX
LOCATION HILLIARD, OHIO
JOB NO. 1117-18-041 **DATE** 2/7/19

PLATE 35

Important Information About Your
Geotechnical Engineering Report

Variations in subsurface conditions can be a principal cause of construction delays, cost overruns and claims. The following information is provided to assist you in understanding and managing the risk of these variations.

Geotechnical Findings Are Professional Opinions

Geotechnical engineers cannot specify material properties as other design engineers do. Geotechnical material properties have a far broader range on a given site than any manufactured construction material, and some geotechnical material properties may change over time because of exposure to air and water, or human activity.

Site exploration identifies subsurface conditions at the time of exploration and only at the points where subsurface tests are performed or samples obtained. Geotechnical engineers review field and laboratory data and then apply their judgment to render professional opinions about site subsurface conditions. Their recommendations rely upon these professional opinions. Variations in the vertical and lateral extent of subsurface materials may be encountered during construction that significantly impact construction schedules, methods and material volumes. While higher levels of subsurface exploration can mitigate the risk of encountering unanticipated subsurface conditions, no level of subsurface exploration can eliminate this risk.

Geotechnical Findings Are Professional Opinions

Professional geotechnical engineering judgment is required to develop a geotechnical exploration scope to obtain information necessary to support design and construction. A number of unique project factors are considered in developing the scope of geotechnical services, such as the exploration objective; the location, type, size and weight of the proposed structure; proposed site grades and improvements; the construction schedule and sequence; and the site geology.

Geotechnical engineers apply their experience with construction methods, subsurface conditions and exploration methods to develop the exploration scope. The scope of each exploration is unique based on available project and site information. Incomplete project information or constraints on the scope of exploration increases the risk of variations in subsurface conditions not being identified and addressed in the geotechnical report.

Services Are Performed for Specific Projects

Because the scope of each geotechnical exploration is unique, each geotechnical report is unique. Subsurface conditions are explored and recommendations are made for a specific project.

Subsurface information and recommendations may not be adequate for other uses. Changes in a proposed structure location, foundation loads, grades, schedule, etc. may require additional geotechnical exploration, analyses, and consultation. The geotechnical engineer should be consulted to determine if additional services are required in response to changes in proposed construction, location, loads, grades, schedule, etc.

Geo-Environmental Issues

The equipment, techniques, and personnel used to perform a geo-environmental study differ significantly from those used for a geotechnical exploration. Indications of environmental contamination may be encountered incidental to performance of a geotechnical exploration but go unrecognized. Determination of the presence, type or extent of environmental contamination is beyond the scope of a geotechnical exploration.

Geotechnical Recommendations Are Not Final

Recommendations are developed based on the geotechnical engineer's understanding of the proposed construction and professional opinion of site subsurface conditions. Observations and tests must be performed during construction to confirm subsurface conditions exposed by construction excavations are consistent with those assumed in development of recommendations. It is advisable to retain the geotechnical engineer that performed the exploration and developed the geotechnical recommendations to conduct tests and observations during construction. This may reduce the risk that variations in subsurface conditions will not be addressed as recommended in the geotechnical report.

Portion obtained with permission from "Important Information About Your Geotechnical Engineering Report", ASFE, 2004
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Phase I Environmental Site Assessment
Grener Multi-Sports Complex
Hilliard, Franklin Co., Ohio
S&ME Project No. 4117-18-020

PREPARED FOR:

The City of Hilliard
3800 Municipal Way
Hilliard, Ohio 43026

PREPARED BY:

S&ME, Inc.
6190 Enterprise Court
Dublin, OH 43016

January 7, 2019

January 7, 2019

City of Hilliard
3800 Municipal Way
Hilliard, Ohio 43026

Attention: Mr. Clyde Seidle, P.E.

Reference: **Phase I Environmental Site Assessment**
Grener Multi-Sports Complex
Hilliard, Franklin County, Ohio
S&ME Project No. 4117-18-020

Mr. Seidle:

S&ME, Inc. (S&ME) has completed a Phase I Environmental Site Assessment (ESA) for the referenced property (i.e., "property"). The attached report presents the findings of S&ME's Phase I ESA which was performed in accordance with American Society of Testing and Materials (ASTM) E1527-13 and S&ME Proposal No. 41-18-00517, dated September 20, 2018. The purpose of the Phase I ESA was to identify, to the extent feasible, *recognized environmental conditions* in connection with the property.

ASTM E1527-13 states that a Phase I ESA "meeting or exceeding" this practice and completed less than 180 days prior to the date of acquisition or intended transaction is presumed to be valid if the report is being relied on by the User for whom the assessment was originally prepared and the following components were completed: interviews, the regulatory review, site visit, and the declaration by the environmental professional responsible for the assessment. Based on this requirement, this report is presumed to be valid until July 6, 2019.

S&ME appreciates the opportunity to provide this Phase I ESA for this project. Please contact us at your convenience if there are questions regarding the information contained in this report.

Sincerely,

S&ME, Inc.

Samuel J. Staschiak
Staff Environmental Scientist

James R. Bruce, PG, CHMM
Senior Reviewer

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Executive Summary

S&ME, Inc. (S&ME) has completed a Phase I Environmental Site Assessment (ESA) of the Grener Multi-Sports Complex (property) located along the east side of Cosgray Road and west of Leppert Road in Hilliard, Franklin County, Ohio. Based on a review of the Franklin County Auditor's website, the property comprises approximately 116.8 acres and consists of three parcels (050-011197-00, 050-011455-00, and 050-009807-00).

The historical resources reviewed along with personal interview information, indicates that the property was vacant land or agricultural fields from at least 1901 to 2017.

Two database listings were identified within 700 feet of the property.

This assessment has revealed no evidence of *recognized environmental conditions, historic recognized environmental conditions, or controlled recognized environmental conditions* in connection with the property.

We have prepared this summary solely to provide a general overview. Please do not rely solely on this executive summary. The full report should be reviewed for information about findings, recommendations, and other concerns.

1.0 Introduction

S&ME, Inc. (S&ME) conducted a Phase I ESA of the Grener Multi-Sports Complex property located along the east side of Cosgray Road and west of Leppert Road, in Hilliard, Franklin County, Ohio, i.e. the "property." The Phase I ESA was conducted using the ASTM International (ASTM) E1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* and in accordance with S&ME Proposal No. 41-18-00517, dated September 20, 2018.

1.1 Continued Viability of the Phase I ESA

ASTM E1527-13 states that an Environmental Site Assessment "meeting or exceeding" this practice and completed less than 180 days prior to the date of acquisition or intended transaction is presumed to be valid if the report is being relied on by the User for whom the assessment was originally prepared and the following components were completed: interviews, regulatory records review, site visit, and declaration by the environmental professional responsible for the assessment. Based on this requirement, this report is presumed to be valid until July 6, 2019.

The Phase I ESA may be updated within one year prior to the date of property acquisition or transaction provided that the above components are updated no more than 180 days prior to the property acquisition or transaction.

1.2 Purpose

The purpose of the Phase I ESA is to identify, pursuant to ASTM E1527-13, *recognized environmental conditions* in connection with the property.

ASTM defines the term *recognized environmental condition* (REC) as the presence or likely presence of hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. The term includes hazardous substances or petroleum products even under conditions in compliance with laws.

ASTM defines the term *controlled recognized environmental condition* (CREC) as "a *recognized environmental condition* resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)."

ASTM defines the term *historical recognized environmental condition* (HREC) as a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).

The terms do not include *de minimis* conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis* conditions are not *recognized environmental conditions* nor *controlled recognized environmental conditions*.

1.3 Detailed Scope of Services

1.3.1 ASTM E1527-13

S&ME's approach to performing this Phase I ESA consisted of four major tasks in accordance with ASTM Standard Practice E1527-13.

1.3.1.1 Task 1

A review of reasonably ascertainable public records for the property and the immediate vicinity was conducted. This review was performed to characterize environmental features of the property and to identify past and present land use activities, on or in the vicinity of the property, which may indicate a potential for *recognized environmental conditions*. The review of the reasonably ascertainable public records included:

1. Review of federal, state, tribal, and reasonably ascertainable local public records for the property and immediate vicinity.
2. Review of one or more of the following standard sources: aerial photographs, fire insurance maps, tax files, building department records, zoning/land use records, street directories and topographic maps of the property and vicinity for evidence suggesting past uses that might have involved hazardous substances or petroleum products.

3. Review of land title records back to 1940, or first developed use - whichever is earlier, as well as a copy of the current deed if the documents are provided to S&ME by the Phase I ESA user.

1.3.1.2 Task 2

A site reconnaissance was performed to identify visible signs of past or existing contamination on or adjacent to the property. This reconnaissance was also performed to evaluate evidence found in our public record review that might indicate activities resulting in hazardous substances or petroleum products being used or deposited on the property. The site reconnaissance included the following activities:

1. A reconnaissance of the property and adjacent sites was performed to look for evidence of current and past property uses, signs of spills, stressed vegetation, buried waste, underground storage tanks (USTs) or above ground storage tanks (ASTs), subsidence, transformers, or unusual soil discoloration which may indicate the possible presence of contaminants on the properties. Photographs are provided to document these conditions.
2. The exterior reconnaissance involved a viewing of the periphery of the property and a walk-through of accessible areas of the site interior.
3. Areas of the property were photographed to document the current use(s) of the property, as well as conditions such as unusually discolored soil, stressed vegetation, or other significant features associated with the property.

1.3.1.3 Task 3

Interviews with past and present property owners (if available), operators and occupants as well as with appropriate local officials were conducted to consider any local knowledge of hazardous substances or petroleum products on the property or on adjacent sites.

1.3.1.4 Task 4

Report preparation.

1.3.2 Exclusions from and Additions to Scope of Services

Unless specifically authorized as an addition to the Phase I ESA work scope, the assessment did not include assessment of environmental conditions not specifically included in the ASTM E1527-13 standard including, but not limited to sampling of materials (i.e., soil, surface water, groundwater or air), or the assessment of business risk issues such as wetlands, lead in drinking water, asbestos-containing materials, regulatory compliance, cultural/historic risks, industrial hygiene, health/safety, ecological resources, endangered species, indoor air quality, vapor intrusion, radon or high-voltage power lines.

1.4 Significant Assumptions

Information obtained from the Client, the Client's representatives, individuals interviewed, and prior environmental reports was considered to be accurate unless S&ME's reasonable inquiries clearly revealed otherwise.

The groundwater within the local geologic province is typically contained in an unconfined (water table) aquifer. The slope of the water table under static conditions (no pumping interference) often approximates the land surface topography. Thus, the interpreted groundwater flow direction is assumed to be approximately the same as the topography of the ground surface. Perennial surface waters (creeks, streams, rivers, ponds, etc.) are assumed to act as discharge features for groundwater flow.

1.5 Limitations and Exceptions of Assessment

The Phase I ESA was conducted using ASTM E1527-13. The findings of this report are applicable and representative of conditions encountered at the property on the date of this assessment, and may not represent conditions at a later date. The review of public records was limited to that information which was available to S&ME at the time this report was prepared. Interviews with local and state government authorities were limited to those people whom S&ME was able to contact during the preparation of this report. Information was derived from "reasonably ascertainable" and "practically reviewable" sources in compliance with our understanding of the standards set forth by ASTM E1527-13.

1.6 Special Terms and Conditions

This Phase I ESA was conducted in accordance with S&ME Proposal No. 41-18-00517, dated September 20, 2018.

1.7 User Reliance

The User of this report is The City of Hilliard (the Client). The resulting report is provided for the sole use of the Client. Use of this report by any third parties will be at such party's sole risk except when granted under written permission by S&ME. Any such authorized use or reliance by third parties will be subject to the same Agreement under which the work was conducted for the Client.

The additional party's use and reliance on the report will be subject to the same rights, obligations, and limitations imposed on the client by our Agreement, unless otherwise agreed. However, the total liability of S&ME to all parties of the Phase I ESA shall be limited to the remedies and amounts as provided in the Agreement as a single contract. The additional party's use and reliance on the report shall signify the additional party's agreement to be bound by the proposal and contract that make up the Agreement between S&ME and the Client.

2.0 General Site Description

2.1 Site Location

The property comprises approximately 116.8 acres and consists of three parcels (050-011197-00, 050-011455-00, and 050-009807-00) in Hilliard, Franklin County, Ohio. The location of the property and site features are illustrated on **Figure 1** and **Figure 2** in **Appendix I**. Parcel information is included in **Appendix III**.

2.2 Site and Vicinity Characteristics

The property is primarily in use for agricultural purposes. Adjacent sites are developed with residential and commercial buildings (Bo Jackson Sports Complex).

3.0 User Provided Information

The User Questionnaire identified in ASTM E1527-13 was completed on behalf of the User (The City of Hilliard) by Clark Rausch with The City of Hilliard. A copy of the completed User Questionnaire is included in **Appendix V**.

3.1 Title Records

Mr. Rausch did not provide S&ME with title records for review and S&ME was not engaged by the Clients to secure a title report as part of the services.

3.2 Environmental Liens or Activity and Use Limitations

Review of Activity and Use Limitations (AULs) and environmental liens by the environmental professional can help in determining if a *recognized environmental condition* is associated with the property. AULs can include both institutional and engineering controls, and are often recorded in land title records in the restrictions of record rather than a typical chain-of-title or title abstract. The User has the responsibility of checking land title and judicial (federal, state, tribal and local) records.

No lien/AUL search was provided by the User, and no information regarding environmental liens, AULs, or governmental notification relating to past or recurrent violations of environmental laws with respect to the property was reported to S&ME by the User.

3.3 Specialized Knowledge

The User reported that the site has been farmed for approximately 50 years.

3.4 Commonly Known or Reasonably Ascertainable Information

No commonly known or reasonably ascertainable information about the property within the local community that was material to RECs in connection with the property was reported to S&ME by the User.

3.5 Valuation Reduction for Environmental Issues

The User indicated the purchase price of the property reflects the current market value.

3.6 Owner, Property Manager and Occupant Information

The property is currently owned by The City of Hilliard and Hilliard City Schools.

3.7 Reason for Performing the Phase I ESA

It is our understanding that the Phase I ESA is being conducted prior to the transfer of the property from Hilliard City Schools to the City of Hilliard and to develop the property as a sports complex. The purpose of the Phase I ESA is to identify, pursuant to ASTM E1527-13, RECs in connection with the property. S&ME assumes that this Phase I ESA is being performed to assist the purchaser in qualifying for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability.

3.8 Other

No other information was provided to S&ME by the User.

4.0 Records Review

This section summarizes records obtained and reviewed to help identify *recognized environmental conditions, controlled recognized environmental conditions,* and *historical recognized environmental conditions* in connection with the property.

4.1 Standard Environmental Record Sources

S&ME reviewed the regulatory lists obtained from Environmental Data Resources (EDR). EDR contacts regulatory agencies on a periodic basis to update identified databases. The extent of the search radii vary according to the activities and/or materials produced at each facility. The EDR environmental records report is included in **Appendix II** and contains detailed information regarding the release date and search distance for each database researched, search radii, an explanation of each database, and figures depicting the approximate location of regulated facilities in the vicinity of the property.

Regulatory listings are limited and include only those facilities or incidents that are known to the regulatory agencies at the time of publication to be contaminated, in the process of evaluation for potential contamination, or to store/generate potentially hazardous substances, waste, or petroleum. The Phase I ESA ASTM search radii are listed below.

Table 4-1 – Federal Environmental Records Sources

Database	Approximate ASTM Search Distance	Number of Sites in Results
NPL (National Priority List)	1.0 mile	0
Proposed NPL (Proposed National Priority List)	1.0 mile	0
DELISTED NPL (National Priority List Deletions)	1.0 mile	0
NPL LIENS (Federal Superfund Liens)	Property & Adjacent Sites	0
CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System)	0.5 mile	0

Database	Approximate ASTM Search Distance	Number of Sites in Results
CERCLIS-NFRAP (Comprehensive Environmental Response, Compensation and Liability Information System – No Further Remedial Action Planned)	0.5 mile	0
CORRACTS (Corrective Action Report)	1.0 mile	0
RCRA-TSDF (Resource Conservation and Recovery Act – Treatment, Storage, and Disposal Facilities)	1.0 mile	0
RCRA-SQG (Resource Conservation and Recovery Act – Small Quantity Generators)	Property & Adjacent Sites	0
RCRA-LQG (Resource Conservation and Recovery Act – Large Quantity Generators)	Property & Adjacent Sites	0
RCRA-CESQG (Resource Conservation and Recovery Act – Conditionally Exempt Small Quantity Generators)	Property & Adjacent Sites	0
RCRA-NonGen (Resource Conservation and Recovery Act – Non-Generators)	Property & Adjacent Sites	0
ERNS (Emergency Response Notification System	Property & Adjacent Sites	0
HMIRS (Hazardous Materials Information Reporting System)	Property & Adjacent Sites	0
CONSENT (Superfund (CERCLA) Consent Decrees)	1.0 mile	0
ROD (Records of Decision)	1.0 mile	0
TRIS (Toxic Chemical Release Inventory System)	Property & Adjacent Sites	0
TSCA (Toxic Substances Control Act)	Property & Adjacent Sites	0
FTTS (FIFRA & TSCA Tracking System)	Property & Adjacent Sites	0
HIST FTTS (Historical FIFRA & TSCA Tracking System)	Property & Adjacent Sites	0
PADS (PCB Activity Database System)	Property & Adjacent Sites	0
MLTS (Material Licensing Tracking System)	Property & Adjacent Sites	0
US AIRS (Aerometric Information Retrieval System)	Property & Adjacent Sites	0
MINES (Mines Master Index File)	0.25 mile	0
ECHO (Enforcement and Compliance History Online)	Property & Adjacent Sites	0
NPDES (National Pollutant Discharge Elimination System)	Property & Adjacent Sites	0
FINDS (Facility Index System)	Property & Adjacent Sites	1
RAATS (RCRA Administrative Action Tracking System)	Property & Adjacent Sites	0

Table 4-2 – State Environmental Records Sources

Database	Approximate ASTM Search Distance	Number of Sites in Results
SHWS (State Hazardous Waste Sites)	N/A	N/A
Landfills (SWF/LF)	0.5 mile	0
LUST (Leaking Underground Storage Tanks)	0.5 mile	1
UST (Underground Storage Tank)	0.25 mile	0
AST (Aboveground Storage Tank)	0.25 mile	0
Spills	0.25 mile	1
ARCHIVE UST (USTs Removed from UST Database)	0.25 mile	0
DERR	1.0 mile	0
VCP (Voluntary Action Program Sites)	0.5 mile	0

The identified facilities of potential concern, based on distance and topography, are discussed in the following table.

Table 4-3 – Database Search Summary Table (Standard Record Sources)

Facility	Location Distance/Direction	Record	Comment
Unknown	4593 Traillane Drive – Adjacent -614 feet - South southwest	SPILLS	A spill of "Algae" was reported at the intersection during May 2004. The incident is not considered a REC in connection with the property.
6032 Hayden Run Road	6032 Hayden Run Road – 2,181 feet – East northeast	LUST UST	The site is separated from the subject property by a stream and groundwater at this site likely flows away from the property. The LUST status of the facility is No Further Action (NFA). One orphan UST was reported at the site and has been removed. The facility is not considered a REC in connection with the property.

4.2 Additional Environmental Record Sources

4.2.1 EDR Supplementary Sources

The EDR report also includes additional environmental records not listed among the standard federal, state and tribal databases, such as historical auto stations and dry cleaners; however, no such facilities were identified within 500 feet of the Property in the EDR report.

4.2.2 Tribal Record Sources

The EDR Radius Map Report with GeoCheck® includes a search of available tribal record sources. The EDR report did not reveal listing of tribal environmental records. In addition, S&ME reviewed the United States Environmental Protection Agency (USEPA) American Indian Environmental Office Tribal Portal website as well as a website which identifies geographic locations of the Native American tribes in USEPA, Region 5. According to information obtained from these websites, no federally recognized tribes are located at the property.

4.2.3 Other Record Sources

4.2.3.1 Water Wells

The Ohio Department of Natural Resources (ODNR) on-line water well log database was searched for water wells on the property; no water wells were included in the database for the property.

4.2.3.2 Oil & Gas Wells

According to the ODNR on-line mapping, there are no records of oil or gas wells on the property.

No other record sources were checked in connection with this Phase I ESA.

4.3 Physical Setting Sources

Physical setting sources specified in Section 11.0 of this report were reviewed to provide information about the geology and hydrogeology of the area of the property.

4.3.1 Surface Drainage and Soil

Based upon the topographic map reviewed, the property has a surface elevation of approximately 940 feet above mean sea level (MSL) to 945 feet above MSL. Most of the property slopes downward towards the east-northeast (see **Figure 1,** Site Vicinity Map, **Appendix I**).

Information regarding the area soils was obtained from the EDR Radius Map Report with GeoCheck®. EDR indicates soils at the property are characterized as the Crosby, Kokomo, Celina, and Miamian silty clay loam. These soils are characterized as very-poorly-drained to well-drained.

4.3.2 Bedrock

The property is located within the Columbus Limestone portion of the Southern Ohio Loamy Till Plain section of the Till Plains physiographic region of Ohio. Geologic literature indicates soils in the vicinity of the property are likely to be ground moraine deposits. The glacial till in the vicinity of the property overlies limestone and dolomite bedrock from the Middle and Lower Devonian system.

4.3.3 Groundwater

In the Till Plains physiographic region, the slope of the water table under static conditions (no pumping interference) often approximates the land surface topography; thus, groundwater flow is often in the direction of the dip in topographic slope.

Based upon a review of topographic maps, groundwater is anticipated to generally flow to the east-northeast.

4.4 Historical Use Information on the Property

S&ME reviewed aerial photographs obtained from EDR (1938, 1950, 1953, 1965, 1972, 1979, 1981, 1989, 1994, 2000, 2006, 2010, 2013, and 2017). The certified Sanborn® Map Report from EDR did not find Sanborn® Fire Insurance Maps for the property. S&ME also reviewed historical topographic maps obtained from EDR (1901/1903, 1912, 1954, 1966, 1973, 1980, 1984, and 2013). S&ME a summary of city directories for Cosgray Road and Leppert Road provided by EDR (1965, 1971, 1976, 1981, 1985, 1992, 2002, 2005, 2010, and 2014). Historical information is included in **Appendix III**.

Table 4-4 –Historical Use Summary Table (On-site)

Listing/Observed Feature	Years Found for this Listing	Source(s)
The property is depicted as agricultural fields/pastureland or vacant land with two inferred homesteads from 1938 to 1953. From 1965 to 2017 the property is depicted as undeveloped with no buildings and row crops planted, indicating agricultural use.	As listed above	Aerial Photographs
Sanborn maps were not available for the property.	As listed above	Sanborn® Fire Insurance Maps
Three structures are illustrated on the property from 1901 through 1912. The property is depicted as undeveloped agricultural land lacking buildings from 1954 through 2013.	As listed above	Topographic Maps
The address for the property was not listed in the city directories. An address for 4200 Leppert Road is included in the 2000 City Directory for Hilliard City School District which is suspected to be the property.	As listed above	City Directories

The standard historical sources listed below were not reviewed. It is S&ME's opinion that these sources would not provide additional meaningful and complete information, or the sources were not considered to be practically reviewable or reasonably ascertainable.

- Property Tax Files
- Recorded Land Title Records

- Building Department Records
- Zoning/Land Use Records

4.5 Historical Use Information on Adjoining Properties

Historical information including aerial photographs, city directories, topographic maps, Sanborn® Fire Insurance Maps, and regulatory records were reviewed to assess off-site historical land uses. Our findings are presented in the following table.

Table 4-5 - Historical Use Summary Table (Off-site)

Current Use/Location	Prior Use
North: Bo Jackson Sports Center, a cellular communication tower, and a dwelling	The area adjoining the north side of the property is depicted as vacant/agricultural fields/ pastureland (1901 through 1953); agricultural fields/forested and developed with a dwelling (1965 through 2013); developed with a dwelling, and a commercial sports complex with paved lots (2017).
East: Leppert Road is adjacent to the east of the property and the area along the east side of Leppert Road is vacant agricultural fields and single-family dwellings	Leppert Road is illustrated immediately east of the property (1901 through 2017). The area east of Leppert Road is illustrated as agricultural/pastureland/ vacant land (1901 through 2017). A cellular tower was noted northeast of the site, no above ground fuel tank was noted in the area.
South: Heritage Trail with residential development (single-family dwellings) south of Heritage Trail	A railroad line and agricultural field are depicted immediately south of the property (1901 through 1994); a recreational trail (Heritage Trail), dwellings, and an agricultural field (2000 through 2017).
West: Cosgray Road is present along the west side of the property and a recreational park (Homestead Park) is present along the west side of Cosgray Road	Cosgray Road is present along the west side of the property (1901 through 2017). Suspected farmsteads and agricultural/pastureland is present (1901 through 1989) and the area is depicted as a park and a dwelling (1994 through 2017).

5.0 Site Reconnaissance

The site reconnaissance was performed by Mr. Sam Staschiak, S&ME Staff Environmental Scientist, on November 16, 2018. The weather was cloudy with light rain/snow and temperatures of approximately 32 degrees Fahrenheit. The approximate locations of selected photographs and property characteristics are indicated on the Site Plan in **Appendix I**. Color copies of selected photographs are included in **Appendix IV**.

5.1 Methodology and Limiting Conditions

The purpose of the site reconnaissance is to "obtain information indicating the likelihood of identifying *recognized environmental conditions* in connection with the property." The site reconnaissance was performed by walking the perimeter and property, along tree lines, across interior areas of the property.

5.2 General Site Setting

5.2.1 Current Use(s) of the Property

The property is comprised of three parcels which are owned by The Hilliard City School District. The property is approximately 116.8 acres in size and is primarily comprised of an agricultural field. No structures were present on the property during the site investigation. An aerial photograph of the property is presented as **Figure 2** in **Appendix I**.

5.2.2 Past Use(s) of the Property

Based on the presence of row crops, it is inferred that the property has been used for agricultural purposes.

5.2.3 Current Use(s) of Adjoining and Surrounding Properties

The current uses of the adjoining sites were identified to the extent that they were visually observed from the property during our field reconnaissance, or were identified in interviews or in the records review. Descriptions of adjoining sites are provided below:

- North – Residential (single-family home), and commercial use (Bo Jackson Sports Complex).
- East – Residential (single-family house), and agricultural (planted in row crops), cellular tower
- South – Heritage Trail and south of Heritage Trail is a residential development (several single-family houses).
- West – Residential development (single-family house), local park (Homestead Metro Park).

5.2.4 Past Use(s) of Adjoining and Surrounding Properties

No obvious evidence of previous land uses was observed on adjoining and surrounding sites through observations made during the site visit.

5.2.5 Geologic, Hydrogeologic, Hydrologic, and Topographic Conditions

The topography at the property is gently rolling with the ground surface elevation ranging from approximately 940 feet above MSL to 945 feet above MSL. Surface drainage on most of the property appears to drain towards the northeast into Hayden Run located to the north of the property.

5.2.6 Description of Structures and Roads

Access to the property is via Cosgray Road located along the east side of the property. An asphalt parking lot is present to the north side of the property and a sports complex building is located north of the parking lot.

5.2.7 Potable Water Supply and Sewage Disposal System

There was no evidence of water wells, monitoring wells, oil and gas wells, septic systems, or cisterns at the property. Evidence of a buried petroleum pipeline was noted running parallel to the north of Heritage Trail. Evidence of a buried natural gas pipeline was noted west of the property running along Cosgray Road.

5.3 Exterior Observations

The property is currently in use for agricultural purposes and was planted in soybeans (Photographs 1 through 8). Overhead electric lines and a petroleum pipeline are present on the south side of the property running adjacent to Heritage Trail. A natural gas line was noted running from the west to the northeast of the site. (see **Figure 2** in **Appendix I** containing additional site details).

5.4 Interior Observations

The property is undeveloped agricultural land, with the area currently planted in row crops.

5.5 General Property Observations

Findings from the site reconnaissance are summarized in the following table:

Table 5-1 – General Property Observations

Description	Reported or Observed On-site (Y/N)	Comments (Noteworthy observations are further discussed below the table.)
Hazardous Substances and Petroleum Products	N	
Underground Storage Tanks (USTs)	N	
Aboveground Storage Tanks (ASTs)	N	
Oil/Water Separators	N	
Strong, Pungent, or Noxious Odors	N	
Pools of Liquid	N	
Drums, Barrels and/or Containers > 5 Gallons	N	
Unidentified Substance Containers	N	
Potential Polychlorinated Biphenyls (PCB)-Containing Equipment	N	

Description	Reported or Observed On-site (Y/N)	Comments (Noteworthy observations are further discussed below the table.)
Hydraulic Equipment	N	
Contracted Maintenance Services	N	
Utilities and Stormwater Management	Y	Evidence of buried water and storm sewer utilities were note on the east and west sides of the property along Leppert Road and Cosgray Road.
Pits, Ponds, Lagoons, and Surface Waters	N	
Surface Water Discoloration, Sheen or Free Product	N	
Storm Water Retention or Detention Ponds	N	
Stained Soil or Pavement	N	
Stressed Vegetation	N	
Solid Waste	N	
Exterior Dumpsters with Staining	N	
Process/industrial Wastewater Discharges	N	
Wells	N	
Septic Systems	N	
Heating/Cooling	N	
Drains and Sumps	N	
Fill	N	
Other	N	

6.0 Interviews

Copies of the Record of Communications are included in **Appendix V**.

6.1 Interview with Past and Present Owners

Mr. Richard Grener, the previous property owner, was interviewed for this investigation. A copy of the completed Owner/Tenant Interview questionnaire is included in **Appendix V**. Mr. Grener indicated he has been familiar with the property for approximately 60 years.

- The property has been farmed since it was purchased in 1940.
- The property originally had a log cabin and barn that were both demolished after Mr. Grener's father purchased the property in 1940. Since then, the area has been farmed.
- The property has not been used as a shooting range, waste disposal facility, dry cleaning, or automotive repair facility.
- No USTs are on the property or have been removed from the property. No ASTs are on the property or have been removed from the property.
- The only known utility on the site was a pipeline running along the old rail trail on the south side of the site.
- No environmental liens or AULs are associated with the property.

6.2 Interview with Key Site Manager

The property does not have a key site manager present; therefore, no interviews were conducted.

6.3 Interview with Occupants

There are no occupants of property; therefore, no interviews were conducted.

6.4 Interview with Local Government Officials

The Franklin County Emergency Management Agency (EMA) was contacted via mail November 16, 2018. S&ME has not received a response to our request.

The Norwich Township Fire Department was contacted via mail on November 16, 2018. S&ME has received a response to our request, stating that there were no records pertaining to aboveground/underground storage tanks, hazardous substances or spills, open fire code violations or environmental complaints on the property.

The Franklin County Health Department was contacted via mail on November 16, 2018. S&ME has received a response to our request, stating that there were no records pertaining to aboveground/underground storage tanks, hazardous substances or spills, violations or environmental complaints on the property.

6.5 Interviews with Others

No other interviews were conducted.

7.0 Findings

The results of the Phase I ESA are summarized in the following sections.

7.1 On-Site Findings

- According the historical research, the property appears to have been agricultural fields/pastureland or vacant land with two (inferred) homesteads from 1901 to 1953. From 1954 to 2017 the property was vacant and with an agricultural use. There is no remaining evidence of the two homesteads, which was confirmed during the site investigation.

7.2 Off-Site Findings

- The 4593 Traillane Drive event off of Cosgray Road (adjacent to the SSW of the property) is listed in the SPILLS database for a spill of "algae" reported during May of 2004.
- 6032 Hayden Run Road (2181 feet ENE), is listed in the LUST and UST databases. The site is separated from the property by a surface stream and groundwater at this site likely flows away from the property. The LUST status of the facility is No Further Action (NFA). One orphan UST was reported at the site and has been removed.

8.0 Opinions

8.1 On-Site Opinions

- The historical uses of the property as agricultural fields/pastureland with suspected farmsteads does not represent a *recognized environmental condition* at the property.

8.2 Off-Site Opinions

- The SPILLS database listing for 4593 Traillane Drive (adjacent to the SSW of the property), does not represent a *recognized environmental condition* in connection with the property based on the material spilled (algae).
- The LUST and UST listing for 6032 Hayden Run Road (2,181 feet E-NE of the property) does not represent a *recognized environmental condition* in connection with the property based on the NFA status of the listing and because the listing is hydrogeologically separated by a stream, and because the groundwater is anticipated to flow away from the property.

8.3 Data Gaps

The following data gap was encountered:

- Title records, environmental lien search, and activity and use limitation were not provided to S&ME for review.

The data gap is not considered significant and did not appear to affect our ability to render an opinion about *recognized environmental conditions*.

8.4 Additional Investigation

Based on the findings of this assessment, no additional investigation is recommended with identifying *recognized environmental conditions*.

9.0 Deviations

No deviations from the standard were made.

10.0 Additional Services

No additional services were performed for this Phase I ESA.

11.0 References

- EDR- Aerial Photo Decade Package, Inquiry Number 5473965.8, dated November 5, 2018
- EDR-Certified Sanborn® Map Report, Inquiry Number 5473965.3, dated November 5, 2018
- EDR-City Directory Image Report, Inquiry Number 5473965.5, dated November 8, 2018
- EDR-Historical Topo Map Report, Inquiry Number 5473965.4, dated November 2, 2018
- EDR-Radius Map Report with GeoCheck, Inquiry Number 5473965_2, dated November 5, 2018
- Franklin County Auditor, Ohio website http://www.delco-gis.org/auditor/
- Ohio Department of Natural Resources, Division of Geological Survey. Bedrock Geologic Map of Ohio, 2006
- Ohio Department of Natural Resources, Division of Geological Survey. Oil & Gas Interactive Web Map. http://www.dnr.state.oh.us/website/geosurvey/oilgas/disclaimer.htm
- Ohio Department of Natural Resources, Division of Geological Survey, Physiographic Regions of Ohio, 1998
- Ohio Department of Natural Resources, Division of Geological Survey. Quaternary Geology of Ohio, 1999
- Ohio Department of Natural Resources, Division of Water. Water Well Log Report On-Line Search Tools. http://www.dnr.state.oh.us/water/maptechs/wellogs/appNEW/

12.0 Signatures of Environmental Professionals

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in paragraph 312.10 of 40 CFR 312, and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Eric P. Slosser, AHES, CPSWQ Environmental Professional	Sam Staschiak Staff Environmental Scientist	James R. Bruce, PG, CHMM Senior Reviewer

13.0 Qualifications of Environmental Professionals

Mr. Staschiak was responsible for conducting interviews, historical research, and report preparation. Mr. Staschiak has three and a half years of experience in biological and environmental monitoring.

Mr. Eric P. Slosser was responsible for oversight of the interviews, historical research, and report preparation. Mr. Slosser has a Baccalaureate of Science in Natural Resource Development Specializing in Environmental Monitoring and Assessment from The Ohio State University (1991). Mr. Slosser has 27 years of experience conducting Phase I ESAs. Since 1992, Mr. Slosser has conducted over 440 Phase I ESAs.

The senior reviewer for this project is James R. Bruce. Mr. Bruce is a registered professional geologist in the State of Tennessee. Mr. Bruce has 28 years of experience in conducting environmental assessment activities.

Copies of the résumés for Mr. Staschiak, Mr. Slosser, and Mr. Bruce are included in **Appendix VI**.

Appendices

Appendix I – Figures

N

PROJECT LOCATION

Hayden Run

HAYDEN RUN RD

COSGRAY RD

LEPPERT RD

ELLIOTT RD

NADINE PARK DR

DRAYTON RD

WALLINGTON DR

Hilliard Davidson HS

DAVIDSON RD

Hilliard Weaver Mid Sch

TAYLOR LANE AVE

CIRCLE DR

Avery Elem Sch

AVERY RD

RAYS WAY

WOODSVIEW WAY

HOFFMAN TRAILS Elem Sch

HOFFMAN FARMS DR

WINTERRINGER ST

NW PKWY

PARKMEADOW LN

Clover Groff Ditch

SCIOTO DARBY CREEK RD

SCIOTO DARBY RD

Hilliard Darby HS

CENTER ST

Hilliard

Hilliard Heritage Mid Sch

SUNRISE Acad

Hilliard Memorial Mid Sch

Hilliard Station Sixth Grade Elem

MAIN ST

SILVERTON WAY

HOLLYRIVER AVE

SPRING RIVER AVE

0 2,000 4,000 (FEET)

REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM ESRI, AND USGS THE NATIONAL MAP: NATIONAL. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

STUDY AREA

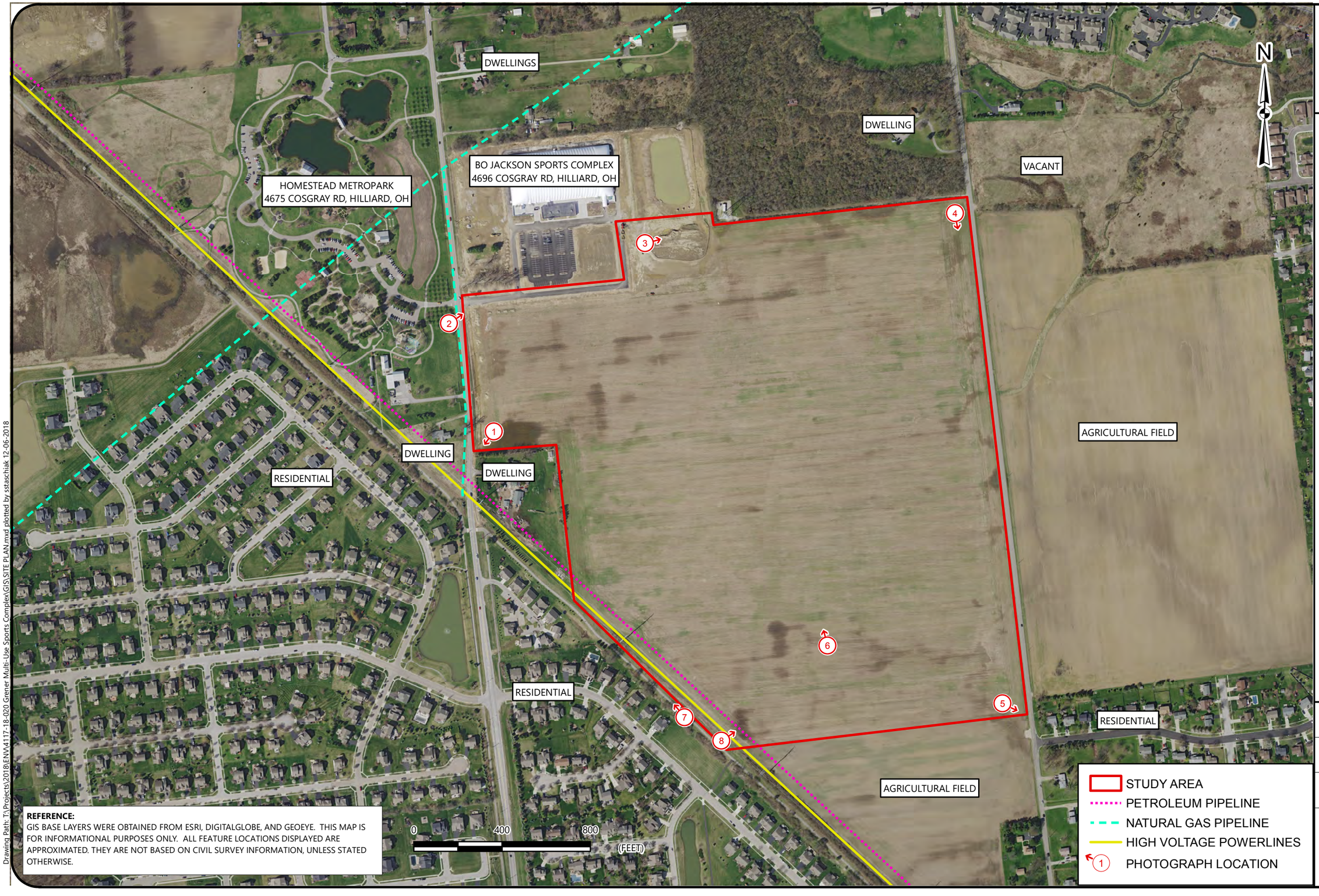
Drawing Path: T:\Projects\2018\ENV\4117-18-020 Grener Multi-Use Sports Complex\GIS\PLE.mxd plotted by sstaschiak 11-16-2018

VICINITY MAP

GRENER MULTI-USE SPORTS COMPLEX
HILLIARD, FRANKLIN COUNTY, OHIO

SCALE: 1 " = 2,000 '
DATE: 11-16-18
PROJECT NUMBER 4117-18-020

FIGURE NO. 1



REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM ESRI, DIGITALGLOBE, AND GEOEYE. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

Drawing Path: T:\Projects\2018\ENV\4117-18-020 Grener Multi-Use Sports Complex\GIS\SITE PLAN.mxd plotted by sstaschiak 12-06-2018

2017 AERIAL SITE PLAN

GRENER MULTI-SPORTS COMPLEX
HILLIARD, FRANKLIN COUNTY, OHIO

SCALE:
1 " = 400 '

DATE:
12-6-18

PROJECT NUMBER
4117-18-020

FIGURE NO.
2

Appendix II – EDR Radius Map Report with GeoCheck

Hilliard Multi-Use Sports Complex
Cosgray Road
Hilliard, OH 43026

Inquiry Number: 5473965.2s
November 05, 2018

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

COSGRAY ROAD
HILLIARD, OH 43026

COORDINATES

Latitude (North):	40.0496930 - 40° 2' 58.89''
Longitude (West):	83.1764430 - 83° 10' 35.19''
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	314341.6
UTM Y (Meters):	4435332.0
Elevation:	940 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5964865 HILLIARD, OH
Version Date:	2013

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20150808
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
COSGRAY ROAD
HILLIARD, OH 43026

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	THE HOMESTEAD PARK A	COSGRAY RD	FINDS	Lower	36, 0.007, NW
A2	THE HOMESTEAD PARK	4675 COSGRAY ROAD	UIC	Lower	51, 0.010, NW
3	NATURAL PHENOMENA	4593 TRAILLANE DR OF	SPILLS	Lower	614, 0.116, SSW
4	LEE ROSS CLEANERS IN	4734 BRIXSTON DR	EDR Hist Cleaner	Lower	1595, 0.302, ESE
5	CLINTON FILM AND SIL	4896 COSGRAY RD	RCRA NonGen / NLR, FINDS, ECHO	Lower	1719, 0.326, NNW
B6	AT&T	6032 HAYDEN RUN RD	LUST, UST	Lower	2181, 0.413, ENE
B7	AT&T	6032 HAYDEN RUN RD	ARCHIVE UST	Lower	2181, 0.413, ENE
B8	AT&T LONG LINES HILL	APPROX 12 MI W OF CO	RCRA NonGen / NLR	Lower	2400, 0.455, ENE
9	GLENMONT	4599 AVERY RD	SWF/LF	Lower	3734, 0.707, ESE
10	BUCK & SONS LANDSCAP	7147 HAYDEN RUN RD	LUST	Higher	3829, 0.725, NW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-SQG ---------- RCRA - Small Quantity Generators
RCRA-CESQG ---------- RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List

US INST CONTROL - Sites with Institutional Controls

Federal ERNS list

ERNS - Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS - This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.
DERR - Division of Environmental Response and Revitalization Database

State and tribal leaking storage tank lists

INDIAN LUST - Leaking Underground Storage Tanks on Indian Land
UNREG LTANKS - Ohio Leaking UST File

State and tribal registered storage tank lists

FEMA UST - Underground Storage Tank Listing
AST - Above Ground Storage Tanks
INDIAN UST - Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

HIST ENG CONTROLS - Operation & Maintenance Agreements Database
HIST INST CONTROLS - Institutional Controls Database
ENG CONTROLS - Sites with Engineering Controls
INST CONTROL - Sites with Institutional Engineering Controls

State and tribal voluntary cleanup sites

VCP - Voluntary Action Program Sites
INDIAN VCP - Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS - Ohio Brownfield Inventory

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS - A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

HIST LF - Old Solid Waste Landfill
SWRCY - Recycling Facility Listing
INDIAN ODI - Report on the Status of Open Dumps on Indian Lands
ODI - Open Dump Inventory
DEBRIS REGION 9 - Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS - Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL - Delisted National Clandestine Laboratory Register

CDL ---------- Clandestine Drug Lab Locations
US CDL ---------- National Clandestine Laboratory Register

Local Land Records

LIENS 2 ---------- CERCLA Lien Information

Records of Emergency Release Reports

HMIRS ---------- Hazardous Materials Information Reporting System
SPILLS 90 ---------- SPILLS 90 data from FirstSearch
SPILLS 80 ---------- SPILLS 80 data from FirstSearch

Other Ascertainable Records

FUDS ---------- Formerly Used Defense Sites
DOD ---------- Department of Defense Sites
SCRD DRYCLEANERS ---------- State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ---------- Financial Assurance Information
EPA WATCH LIST ---------- EPA WATCH LIST
2020 COR ACTION ---------- 2020 Corrective Action Program List
TSCA ---------- Toxic Substances Control Act
TRIS ---------- Toxic Chemical Release Inventory System
SSTS ---------- Section 7 Tracking Systems
ROD ---------- Records Of Decision
RMP ---------- Risk Management Plans
RAATS ---------- RCRA Administrative Action Tracking System
PRP ---------- Potentially Responsible Parties
PADS ---------- PCB Activity Database System
ICIS ---------- Integrated Compliance Information System
FTTS ---------- FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ---------- Material Licensing Tracking System
COAL ASH DOE ---------- Steam-Electric Plant Operation Data
COAL ASH EPA ---------- Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ---------- PCB Transformer Registration Database
RADINFO ---------- Radiation Information Database
HIST FTTS ---------- FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS ---------- Incident and Accident Data
CONSENT ---------- Superfund (CERCLA) Consent Decrees
INDIAN RESERV ---------- Indian Reservations
FUSRAP ---------- Formerly Utilized Sites Remedial Action Program
UMTRA ---------- Uranium Mill Tailings Sites
LEAD SMELTERS ---------- Lead Smelter Sites
US AIRS ---------- Aerometric Information Retrieval System Facility Subsystem
US MINES ---------- Mines Master Index File
ABANDONED MINES ---------- Abandoned Mines
UXO ---------- Unexploded Ordnance Sites
DOCKET HWC ---------- Hazardous Waste Compliance Docket Listing
ECHO ---------- Enforcement & Compliance History Information
FUELS PROGRAM ---------- EPA Fuels Program Registered Listing
AIRS ---------- Title V Permits Listing
COAL ASH ---------- Coal Ash Disposal Site Listing
CRO ---------- Cessation of Regulated Operations Facility Listing
DRYCLEANERS ---------- Drycleaner Facility Listing

Financial Assurance ---------- Financial Assurance Information Listing
HIST USD ---------- Urban Setting Designations Database
LEAD ---------- Lead Inspections Listing
NPDES ---------- NPDES General Permit List
VAPOR ---------- Vapor Intrusion
TOWNGAS ---------- DERR Towngas Database
USD ---------- Urban Setting Designation Sites

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP ---------- EDR Proprietary Manufactured Gas Plants
EDR Hist Auto ---------- EDR Exclusive Historical Auto Stations

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF ---------- Recovered Government Archive Solid Waste Facilities List
RGA LUST ---------- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Ohio Environmental Protection Agency's Licensed Solid Waste Facilities.

A review of the SWF/LF list, as provided by EDR, and dated 07/09/2018 has revealed that there is 1 SWF/LF site within approximately 0.75 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GLENMONT Status: ISSUED Facility Id: 135309	4599 AVERY RD	ESE 1/2 - 1 (0.707 mi.)	9	14

EXECUTIVE SUMMARY

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Commerce Division of State Fire Marshal's List of Reported Petroleum Underground Storage Tank Release Incidents.

A review of the LUST list, as provided by EDR, and dated 08/08/2018 has revealed that there are 2 LUST sites within approximately 0.75 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BUCK & SONS LANDSCAP	7147 HAYDEN RUN RD	NW 1/2 - 1 (0.725 mi.)	10	15
FR Status: Inactive FR Status: NFA: No Further Action				
Facility Status: Inactive FR Status: NFA: No Further Action				

Lower Elevation	Address	Direction / Distance	Map ID	Page
AT&T	***6032 HAYDEN RUN RD***	***ENE 1/4 - 1/2 (0.413 mi.)***	***B6***	***11***
FR Status: Inactive FR Status: NFA: No Further Action				
Facility Status: Inactive FR Status: NFA: No Further Action				

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Commerce Division of State Fire Marshal's Facility File.

A review of the UST list, as provided by EDR, and dated 08/08/2018 has revealed that there is 1 UST site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
AT&T	***6032 HAYDEN RUN RD***	***ENE 1/4 - 1/2 (0.413 mi.)***	***B6***	***11***
Facility Id: 25007049				
Tank Status: REM - Removed				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Registered Storage Tanks

ARCHIVE UST: Underground storage tank records that have been removed from the Underground Storage Tank database.

A review of the ARCHIVE UST list, as provided by EDR, and dated 08/08/2018 has revealed that there is 1 ARCHIVE UST site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
AT&T	6032 HAYDEN RUN RD	ENE 1/4 - 1/2 (0.413 mi.)	B7	12
Facility Number: 25007049				

Tank Status: REM

Records of Emergency Release Reports

SPILLS: The Spills Database comes from the Ohio EPA.

A review of the SPILLS list, as provided by EDR, and dated 08/20/2018 has revealed that there is 1 SPILLS site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NATURAL PHENOMENA Spill No.: 0405-25-1903	4593 TRAILLANE DR OF	SSW 0 - 1/8 (0.116 mi.)	3	8

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/01/2018 has revealed that there are 2 RCRA NonGen / NLR sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CLINTON FILM AND SIL EPA ID:: OHD981196322	***4896 COSGRAY RD***	***NNW 1/4 - 1/2 (0.326 mi.)***	***5***	***9***
AT&T LONG LINES HILL EPA ID:: OHT400013835	APPROX 12 MI W OF CO	ENE 1/4 - 1/2 (0.455 mi.)	B8	13

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 08/07/2018 has revealed that there is 1 FINDS site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
THE HOMESTEAD PARK A Registry ID:: 110006257932	COSGRAY RD	NW 0 - 1/8 (0.007 mi.)	A1	8

UIC: A listing of underground injection well locations.

A review of the UIC list, as provided by EDR, and dated 07/11/2018 has revealed that there is 1 UIC site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
THE HOMESTEAD PARK Facility Status: Active	4675 COSGRAY ROAD	NW 0 - 1/8 (0.010 mi.)	A2	8

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there is 1 EDR Hist Cleaner site within approximately 0.375 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
LEE ROSS CLEANERS IN	4734 BRIXSTON DR	ESE 1/4 - 1/2 (0.302 mi.)	4	9

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

Site Name	Database(s)
UNKNOWN	LUST

OVERVIEW MAP - 5473965.2S

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Power transmission lines
- Pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Hilliard Multi-Use Sports Complex	CLIENT: S&ME
ADDRESS: Cosgray Road	CONTACT: Samuel Staschiak
Hilliard OH 43026	INQUIRY #: 5473965.2s
LAT/LONG: 40.049693 / 83.176443	DATE: November 05, 2018 8:17 am

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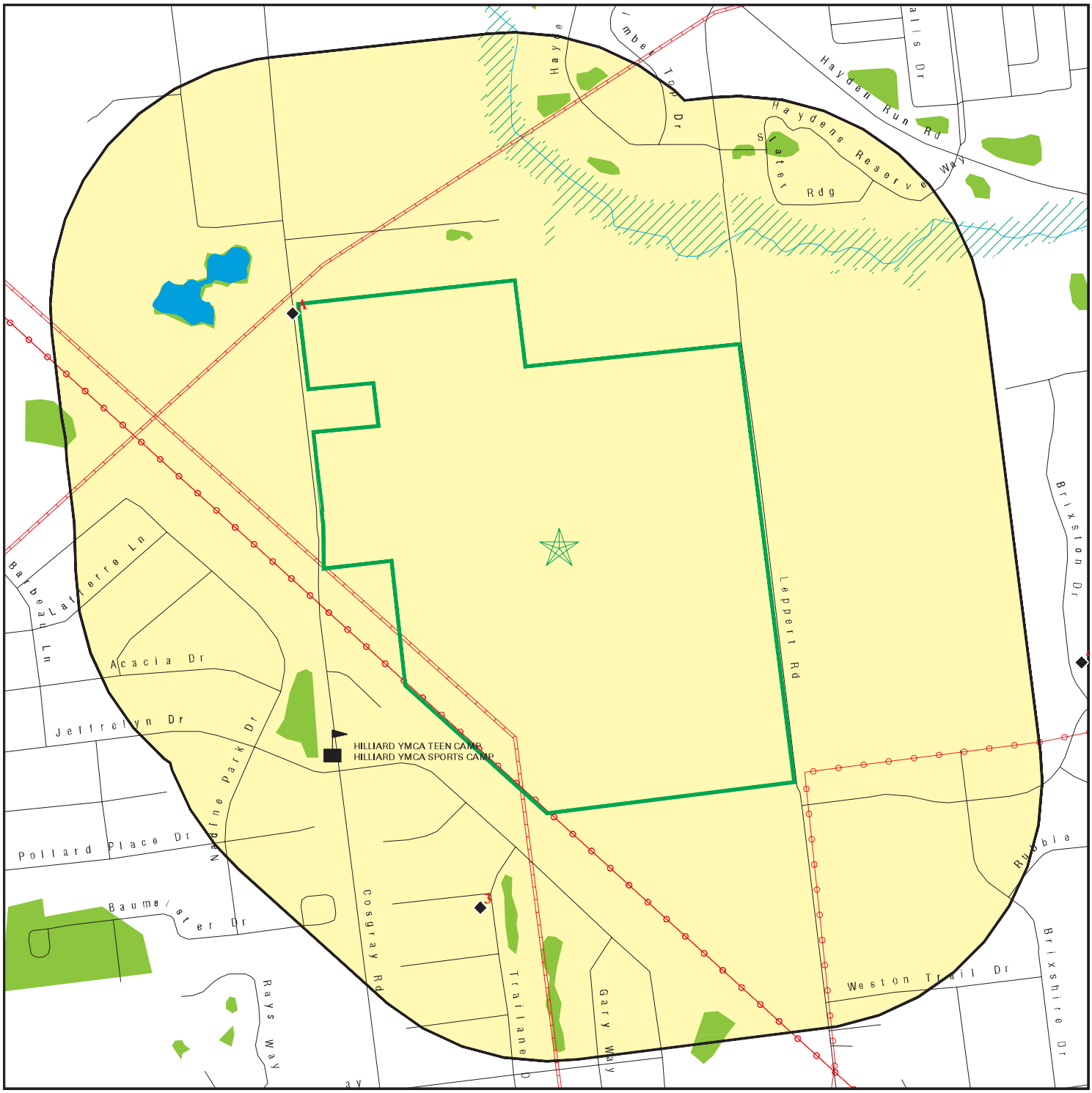
DETAIL MAP - 5473965.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Hilliard Multi-Use Sports Complex	CLIENT: S&ME
ADDRESS: Cosgray Road Hilliard OH 43026	CONTACT: Samuel Staschiak INQUIRY #: 5473965.2s
LAT/LONG: 40.049693 / 83.176443	DATE: November 05, 2018 8:17 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.250		0	0	0	0	0	0
Proposed NPL	1.250		0	0	0	0	0	0
NPL LIENS	0.250		0	0	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.250		0	0	0	0	0	0
Federal CERCLIS list								
FEDERAL FACILITY	0.750		0	0	0	0	NR	0
SEMS	0.750		0	0	0	0	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.750		0	0	0	0	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.250		0	0	0	0	0	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.750		0	0	0	0	NR	0
Federal RCRA generators list								
RCRA-LQG	0.500		0	0	0	NR	NR	0
RCRA-SQG	0.500		0	0	0	NR	NR	0
RCRA-CESQG	0.500		0	0	0	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.750		0	0	0	0	NR	0
US ENG CONTROLS	0.750		0	0	0	0	NR	0
US INST CONTROL	0.750		0	0	0	0	NR	0
Federal ERNS list								
ERNS	0.250		0	0	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS	N/A		N/A	N/A	N/A	N/A	N/A	N/A
DERR	1.250		0	0	0	0	0	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.750		0	0	0	1	NR	1
State and tribal leaking storage tank lists								
LUST	0.750		0	0	1	1	NR	2
INDIAN LUST	0.750		0	0	0	0	NR	0
UNREG LTANKS	0.750		0	0	0	0	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
State and tribal registered storage tank lists								
FEMA UST	0.500		0	0	0	NR	NR	0
UST	0.500		0	0	1	NR	NR	1
AST	0.500		0	0	0	NR	NR	0
INDIAN UST	0.500		0	0	0	NR	NR	0
State and tribal institutional control / engineering control registries								
HIST ENG CONTROLS	0.750		0	0	0	0	NR	0
HIST INST CONTROLS	0.750		0	0	0	0	NR	0
ENG CONTROLS	0.750		0	0	0	0	NR	0
INST CONTROL	0.750		0	0	0	0	NR	0
State and tribal voluntary cleanup sites								
VCP	0.750		0	0	0	0	NR	0
INDIAN VCP	0.750		0	0	0	0	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.750		0	0	0	0	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.750		0	0	0	0	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
HIST LF	0.750		0	0	0	0	NR	0
SWRCY	0.750		0	0	0	0	NR	0
INDIAN ODI	0.750		0	0	0	0	NR	0
ODI	0.750		0	0	0	0	NR	0
DEBRIS REGION 9	0.750		0	0	0	0	NR	0
IHS OPEN DUMPS	0.750		0	0	0	0	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.250		0	0	NR	NR	NR	0
CDL	0.250		0	0	NR	NR	NR	0
US CDL	0.250		0	0	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
ARCHIVE UST	0.500		0	0	1	NR	NR	1
Local Land Records								
LIENS 2	0.250		0	0	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.250		0	0	NR	NR	NR	0
SPILLS	0.250		1	0	NR	NR	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SPILLS 90	0.250		0	0	NR	NR	NR	0
SPILLS 80	0.250		0	0	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.500		0	0	2	NR	NR	2
FUDS	1.250		0	0	0	0	0	0
DOD	1.250		0	0	0	0	0	0
SCRD DRYCLEANERS	0.750		0	0	0	0	NR	0
US FIN ASSUR	0.250		0	0	NR	NR	NR	0
EPA WATCH LIST	0.250		0	0	NR	NR	NR	0
2020 COR ACTION	0.500		0	0	0	NR	NR	0
TSCA	0.250		0	0	NR	NR	NR	0
TRIS	0.250		0	0	NR	NR	NR	0
SSTS	0.250		0	0	NR	NR	NR	0
ROD	1.250		0	0	0	0	0	0
RMP	0.250		0	0	NR	NR	NR	0
RAATS	0.250		0	0	NR	NR	NR	0
PRP	0.250		0	0	NR	NR	NR	0
PADS	0.250		0	0	NR	NR	NR	0
ICIS	0.250		0	0	NR	NR	NR	0
FTTS	0.250		0	0	NR	NR	NR	0
MLTS	0.250		0	0	NR	NR	NR	0
COAL ASH DOE	0.250		0	0	NR	NR	NR	0
COAL ASH EPA	0.750		0	0	0	0	NR	0
PCB TRANSFORMER	0.250		0	0	NR	NR	NR	0
RADINFO	0.250		0	0	NR	NR	NR	0
HIST FTTS	0.250		0	0	NR	NR	NR	0
DOT OPS	0.250		0	0	NR	NR	NR	0
CONSENT	1.250		0	0	0	0	0	0
INDIAN RESERV	1.250		0	0	0	0	0	0
FUSRAP	1.250		0	0	0	0	0	0
UMTRA	0.750		0	0	0	0	NR	0
LEAD SMELTERS	0.250		0	0	NR	NR	NR	0
US AIRS	0.250		0	0	NR	NR	NR	0
US MINES	0.500		0	0	0	NR	NR	0
ABANDONED MINES	0.500		0	0	0	NR	NR	0
FINDS	0.250		1	0	NR	NR	NR	1
UXO	1.250		0	0	0	0	0	0
DOCKET HWC	0.250		0	0	NR	NR	NR	0
ECHO	0.250		0	0	NR	NR	NR	0
FUELS PROGRAM	0.500		0	0	0	NR	NR	0
AIRS	0.250		0	0	NR	NR	NR	0
COAL ASH	0.750		0	0	0	0	NR	0
CRO	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.500		0	0	0	NR	NR	0
Financial Assurance	0.250		0	0	NR	NR	NR	0
HIST USD	0.750		0	0	0	0	NR	0
LEAD	0.250		0	0	NR	NR	NR	0
NPDES	0.250		0	0	NR	NR	NR	0
VAPOR	0.750		0	0	0	0	NR	0
TOWNGAS	1.250		0	0	0	0	0	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UIC	0.250		1	0	NR	NR	NR	1
USD	0.750		0	0	0	0	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.250		0	0	0	0	0	0
EDR Hist Auto	0.375		0	0	0	NR	NR	0
EDR Hist Cleaner	0.375		0	0	1	NR	NR	1
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.250		0	0	NR	NR	NR	0
RGA LUST	0.250		0	0	NR	NR	NR	0
- Totals --		0	3	0	6	2	0	11

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

N/A = This State does not maintain a SHWS list. See the Federal CERCLIS list.

A1
NW
< 1/8
0.007 mi.
36 ft.

THE HOMESTEAD PARK ADDIT — **FINDS** — **1007657580**
COSGRAY RD — **N/A**
AMLIN, OH 43002

Site 1 of 2 in cluster A

Relative:
Lower

Actual:
939 ft.

FINDS:

Registry ID: 110006257932

Environmental Interest/Information System

The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A2
NW
< 1/8
0.010 mi.
51 ft.

THE HOMESTEAD PARK — **UIC** — **S122527956**
4675 COSGRAY ROAD — **N/A**
HILLIARD, OH 43026

Site 2 of 2 in cluster A

Relative:
Lower

Actual:
939 ft.

UIC:

Facility Status:	Active
UIC Number:	Not reported
Type Of UIC Well:	Large Capcity Septic
Well Status:	Not reported
AUT Status:	Rule Authorized
Latitude:	Not reported
Longitude:	Not reported
Number Of UIC Wells:	Not reported
Well Site:	Class V
Type Description:	Not reported

3
SSW
< 1/8
0.116 mi.
614 ft.

NATURAL PHENOMENA — **SPILLS** — **S106959159**
4593 TRAILLANE DR OFF OF COSGREY RD — **N/A**
HILLIARD, OH

Relative:
Lower

Actual:
939 ft.

SPILLS:

Spill Number:	0405-25-1903
Spill Year:	2004
Date Spill Reported:	05/11/2004
Spill Month:	5
Spill Number:	1903
Rep Name:	JAYNE SCHWENKER
Confidential:	Not reported
District Code:	CD
District Description:	Central
EMP Number:	1752
Area Name:	Not reported

NATURAL PHENOMENA (Continued) **S106959159**

Affiliation:	Not reported
Object ID:	Not reported
Spill Size:	Not reported
Spill Type:	Not reported
Ext Haz:	Not reported
OEPA Dist:	Not reported
Incident Type Code:	Not reported
Incident Type Description:	Not reported
Modifying Circumstance Code:	Not reported
Modifying Circumstance Description:	Not reported
Latitude:	4002398
Longitude:	8310386

SPILLS:

Substance:	ALGAE
Media:	Not reported
Reported Amount:	Not reported
Reported UOM:	Not reported
Spill Number:	0405-25-1903

Substance:	ALGAE
Media:	Not reported
Reported Amount:	Not reported
Reported UOM:	Not reported
Spill Number:	0405-25-1903

4
ESE
1/4-1/2
0.302 mi.
1595 ft.

LEE ROSS CLEANERS INC **EDR Hist Cleaner** **1020026308**
4734 BRIXSTON DR **N/A**
HILLIARD, OH 43026

Relative:
Lower

Actual:
937 ft.

EDR Hist Cleaner

Year:	Name:	Type:
1995	LEE ROSS CLEANERS	Drycleaning Plants, Except Rugs
1996	LEE ROSS CLEANERS INC	Drycleaning Plants, Except Rugs
1997	LEE ROSS CLEANERS INC	Drycleaning Plants, Except Rugs

5
NNW
1/4-1/2
0.326 mi.
1719 ft.

CLINTON FILM AND SILVER CO **RCRA NonGen / NLR** **1000322607**
4896 COSGRAY RD **FINDS** **OHD981196322**
AMLIN, OH 43002 **ECHO**

Relative:
Lower

Actual:
936 ft.

RCRA NonGen / NLR:

Date form received by agency:	02/20/1986
Facility name:	CLINTON FILM AND SILVER CO
Facility address:	4896 COSGRAY RD AMLIN, OH 43002
EPA ID:	OHD981196322
Contact:	DEL PARSLEY
Contact address:	4896 COSGRAY RD AMLIN, OH 43002
Contact country:	US
Contact telephone:	614-876-9652

CLINTON FILM AND SILVER CO (Continued) **1000322607**

Contact email: Not reported
EPA Region: 05
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: PARSLEY D AND KRATZER D
Owner/operator address: ADDRESS NOT REPORTED
CITY NOT REPORTED, AK 99998
Owner/operator country: Not reported
Owner/operator telephone: 312-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NAME NOT REPORTED
Owner/operator address: ADDRESS NOT REPORTED
CITY NOT REPORTED, AK 99998
Owner/operator country: Not reported
Owner/operator telephone: 312-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D000
. Waste name: Not Defined

Violation Status: No violations found

FINDS:

Registry ID: 110004641816

CLINTON FILM AND SILVER CO (Continued) **1000322607**

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000322607
Registry ID: 110004641816
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110004641816

B6 **AT&T** **LUST U004205279**
ENE **6032 HAYDEN RUN RD** **UST N/A**
1/4-1/2 **HILLIARD, OH 43026**
0.413 mi.
2181 ft. **Site 1 of 3 in cluster B**

Relative:
Lower

Actual:
910 ft.

LUST:
Release Number: 25007049-N00001
Release Date: Not reported
Facility Status: **Inactive**
LTF Status: 6 Closure of regulated UST
FR Status: **NFA: No Further Action**
Priority: 3
Review Date: 06/20/2000
Priority Decode: SUS/CON from AST
Class1 Decode: A viable RP have been identified
Latitude: 40.054622
Longitude: -83.164787
Class: Viable Responsible Party has been identified

UST:
Facility Id: 25007049
Facility Type: Industrial
Owner Name: AT&T
Owner Address: 308 S AKARD ST RM 1700
Owner City/State/Zip: 75202

Tank Number: T00001
Status: REM - Removed
UST Capacity: 25000
Tank Content: Diesel
Installation Date: 01/01/1971
Construction: BM - Bare Metal
Date Last Used: 08/09/1994
Date TCL Closed: Not reported
Date Removed: 08/09/1994
CAS Number: 68334-30-5
Abandoned Approved: Not reported
Regulated: YES
Sensitive Area: NO

AT&T (Continued) **U004205279**

Date Of Sensitivity:	Not reported
UST Configurations:	Not reported
Construction Comments:	Steel
Corrosion Protections:	Not reported
Corrosion Protection Comments:	Not reported
Primary Release Detection:	AMO - Alternative Method (Other, explain)
Secondary Release Detection:	Not reported
Release Detection Comments:	RDTank: / RDLine:
Piping Configuration:	Not reported
Piping Configuration Comments:	Not reported
Piping Styles:	S - Suction
Piping Constructions:	BM - Bare Metal
Piping Construction Comments:	Galvanized Steel
Piping Corrosion Protections:	OTH - Other (explain)
Piping Corrosion Protection Comments:	Not reported
Piping Release Detections:	OTH - Other(explain)
Piping Release Detection Comments:	Not reported
Spill Prevention Manholes:	NP - None Present
Spill Prevention Manhole Comments:	No
OverFill Prevention:	Not reported
OverFill Prevention Comment:	OverFill Spill: No
Comments:	Not reported

B7 **AT&T** **ARCHIVE UST** **U004084561**
ENE **6032 HAYDEN RUN RD** **N/A**
1/4-1/2 **HILLIARD, OH 43026**
0.413 mi.
2181 ft. **Site 2 of 3 in cluster B**

Relative: **Lower**

Actual: **910 ft.**

ARCHIVE UST:

Facility Number:	25007049
Owner Name:	AT&T
Owner Address:	308 S AKARD ST RM 1700
Owner City,St,Zip:	DALLAS, TX 75202
Owner Telephone:	(214)464-1917
Owner ID:	W000036
Facility Type:	Industrial
Contact Name:	Not reported
Contact Telephone:	Not reported
Tank Number:	Not reported
Depth at Location:	Zero
Authorized:	No
Eligible Award:	Not reported
Action:	No

Permit:

Facility Id:	25007049
Permit Id:	P00001
Permit Status:	Expired
Issued Date:	4/7/1995
LFD Permit Id:	Not reported

Inspection:

Facility Id:	25007049
Permit Number:	P00001
Code:	103
Inspection Type:	Final

AT&T (Continued) **U004084561**

Tank ID:	T00001
Tank Type:	Steel
Tank Status:	**Removed**
Install Date:	1/1/1971
Content:	Diesel
Capacity:	25000
Corrosion Protection Tank:	Not reported
CAS #:	68334-30-5
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
Release Detection On Tank:	Not reported
Date Removed:	8/9/1994
Date Last Use:	8/9/1994
Date Abandoned/Closed:	Not reported
AST/UST:	UST
Corrosion Protection Piping:	Not reported
Piping Material:	Galvanized Steel
Piping Type:	Suction: no valve at tank
Release Detection On Piping:	Not reported

B8 **AT&T LONG LINES HILLIARD OH** **RCRA NonGen / NLR** **1000392678**
ENE **APPROX 12 MI W OF COLUMBUS** **OHT400013835**
1/4-1/2 **HILLIARD, OH 43026**
0.455 mi.
2400 ft. **Site 3 of 3 in cluster B**

Relative:
Lower

Actual:
914 ft.

RCRA NonGen / NLR:

Date form received by agency:	09/30/1996
Facility name:	AT&T LONG LINES HILLIARD OH
Facility address:	APPROX 12 MI W OF COLUMBUS HILLIARD, OH 43026
EPA ID:	OHT400013835
Mailing address:	1 S WACKER ATTN I STERLING CHICAGO, IL 60606
Contact:	JOHN DREW
Contact address:	1 S WACKER ATTN I STERLING CHICAGO, IL 60606
Contact country:	US
Contact telephone:	312-592-5592
Contact email:	Not reported
EPA Region:	05
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	NAME NOT REPORTED
Owner/operator address:	ADDRESS NOT REPORTED CITY NOT REPORTED, AK 99998
Owner/operator country:	Not reported
Owner/operator telephone:	312-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported

AT&T LONG LINES HILLIARD OH (Continued) **1000392678**

Owner/Op end date: Not reported

Owner/operator name: AMERICAN TELEPHONE AND TELEGRA
Owner/operator address: ADDRESS NOT REPORTED
CITY NOT REPORTED, AK 99998
Owner/operator country: Not reported
Owner/operator telephone: 312-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: NONE
. Waste name: None

Violation Status: No violations found

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9 **GLENMONT** **SWF/LF** **S121059098**
ESE **4599 AVERY RD** **N/A**
1/2-1 **HILLIARD, OH 43026**
0.707 mi.
3734 ft.

Relative: **Lower**

Actual: **931 ft.**

LF:
Facility ID: 135309
Facility Address: Not reported
Status: ISSUED
Closed Facility: Not reported
Facility Phone: Not reported
Last Update: Not reported
SWMD: Not reported
Type: Infectious Waste Generator
Specifications: Not reported
License Type: Not reported
License Secondary Id: IWG017964
Class: Not reported
Captive: Not reported
Docket #: Not reported

GLENMONT (Continued) **S121059098**

Core Place ID:	2832
Program Specific Id #:	Not reported
Start Date:	11/17/2014
End Date:	Not reported
District Office:	CDO
Contact Name:	Not reported
Contact Phone:	Not reported
Expire Date:	02/12/2016
Operator:	Not reported
Operator Address:	Not reported
Operator City,St,Zip:	Not reported
Operator Phone:	Not reported
Licence Holder:	Not reported
Licence Holder Address:	Not reported
Licence Holder City,St,Zip:	Not reported
Licence Holder Phone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Owner Phone:	Not reported
Applicant Name:	Glenmont
Applicant Address:	4599 Avery Road

10
NW
1/2-1
0.725 mi.
3829 ft.

BUCK & SONS LANDSCAPE **LUST** **U004086262**
7147 HAYDEN RUN RD **N/A**
AMLIN, OH 43002

Relative:
Higher

Actual:
946 ft.

LUST:

Release Number:	25010271-N00001
Release Date:	Not reported
Facility Status:	**Inactive**
LTF Status:	6 Closure of regulated UST
FR Status:	**NFA: No Further Action**
Priority:	3
Review Date:	06/20/2000
Priority Decode:	SUS/CON from AST
Class1 Decode:	A viable RP have been identified
Latitude:	40.0766
Longitude:	-83.1795
Class:	Viable Responsible Party has been identified

Count: 1 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
DUBLIN	S122000929	UNKNOWN	SE CORNER POST & AVERY RD		LUST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 29

Source: EPA
Telephone: N/A
Last EDR Contact: 10/04/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 29

Source: EPA
Telephone: N/A
Last EDR Contact: 10/04/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 29

Source: EPA
Telephone: N/A
Last EDR Contact: 10/04/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 07/06/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 29

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/04/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 29

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/04/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/19/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 09/19/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 09/19/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 09/19/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 09/19/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/14/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 07/16/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 07/31/2018
Date Data Arrived at EDR: 08/28/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 17

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/28/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 07/31/2018
Date Data Arrived at EDR: 08/28/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 17

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/28/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/18/2018
Date Data Arrived at EDR: 06/27/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 79

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 09/25/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

SHWS: This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: Ohio EPA
Telephone: 614-644-2924
Last EDR Contact: 09/04/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: N/A

DERR: Division of Emergency & Remedial Response's Database

The DERR listings contains sites from all of Ohio that are in the Division of Environmental Response and Revitalization (DERR) database, which is an index of sites for which our district offices maintain files. The database is NOT a record of contaminated sites or sites suspected of contamination. Not all sites in the database are contaminated, and a site's absence from the database does not imply that it is uncontaminated.

Date of Government Version: 12/22/2017
Date Data Arrived at EDR: 02/08/2018
Date Made Active in Reports: 03/02/2018
Number of Days to Update: 22

Source: Ohio EPA
Telephone: 614-644-3538
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Semi-Annually

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Licensed Solid Waste Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 07/09/2018
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 08/15/2018
Number of Days to Update: 33

Source: Ohio Environmental Protection Agency
Telephone: 614-644-2621
Last EDR Contact: 10/09/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank File

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 08/08/2018
Date Data Arrived at EDR: 08/10/2018
Date Made Active in Reports: 09/24/2018
Number of Days to Update: 45

Source: Department of Commerce
Telephone: 614-752-8200
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

UNREG LTANKS: Ohio Leaking UST File
A suspected or confirmed release of petroleum from a non-regulated UST.

Date of Government Version: 08/25/1999
Date Data Arrived at EDR: 08/19/2003
Date Made Active in Reports: 08/26/2003
Number of Days to Update: 7
Source: Department of Commerce
Telephone: 614-752-7938
Last EDR Contact: 08/01/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 10/10/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Varies

UST: Underground Storage Tank Tank File
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 08/08/2018
Date Data Arrived at EDR: 08/10/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 40
Source: Department of Commerce
Telephone: 614-752-8200
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Quarterly

AST: Above Ground Storage Tanks
A listing of aboveground storage tank site locations in the state.

Date of Government Version: 08/01/2018
Date Data Arrived at EDR: 08/02/2018
Date Made Active in Reports: 08/15/2018
Number of Days to Update: 13
Source: Department of Commerce
Telephone: 614-752-7037
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

HIST INST CONTROLS: Institutional Controls Database

"Institutional control" is a restriction that is recorded in the same manner as a deed which limits access to or use of the property such that exposure to hazardous substances or petroleum are effectively and reliably eliminated or mitigated. Examples of institutional controls include land and water use restrictions. This database is no longer updated or maintained by the state agency.

Date of Government Version: 05/10/2005
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/04/2006
Number of Days to Update: 28

Source: Ohio EPA
Telephone: 614-644-2306
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

HIST ENG CONTROLS: Operation & Maintenance Agreements Database

Volunteers that complete a voluntary action that relies on the ongoing operation and maintenance (O&M) of an engineered control to make the site protective (e.g" cap systems and ground water treatment systems) must enter into a legally binding agreement with the Ohio EPA before the director issues a covenant not to sue. This O&M Agreement must describe how the remedy is constructed and how itwill be monitored, maintained and repaired. It also lays out inspection opportunities for the agency. Companies must document that they have the financial capability to operate any remedy relied on, before the agency will agree to enter into the O&M Agreement. The statute requires that the agency be notified of any change in ownership. This database is no longer updated or maintained by the state agency.

Date of Government Version: 05/10/2005
Date Data Arrived at EDR: 04/04/2006
Date Made Active in Reports: 05/04/2006
Number of Days to Update: 30

Source: Ohio EPA
Telephone: 614-644-2306
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

ENG CONTROLS: Sites with Engineering Controls

A database that tracks properties with engineering controls.

Date of Government Version: 12/22/2017
Date Data Arrived at EDR: 02/08/2018
Date Made Active in Reports: 03/02/2018
Number of Days to Update: 22

Source: Ohio EPA
Telephone: 614-644-2306
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Semi-Annually

INST CONTROL: Sites with Institutional Engineering Controls

A database that tracks properties with institutional controls.

Date of Government Version: 12/22/2017
Date Data Arrived at EDR: 02/08/2018
Date Made Active in Reports: 03/02/2018
Number of Days to Update: 22

Source: Ohio Environmental Protection Agency
Telephone: 614-644-2306
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Semi-Annually

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 09/24/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27
Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Action Program Sites
Site involved in the Voluntary Action Program.

Date of Government Version: 12/22/2017
Date Data Arrived at EDR: 02/08/2018
Date Made Active in Reports: 03/02/2018
Number of Days to Update: 22
Source: Ohio EPA, Voluntary Action Program
Telephone: 614-728-1298
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Semi-Annually

State and tribal Brownfields sites

BROWNFIELDS: Ohio Brownfield Inventory
A statewide brownfields inventory. A brownfield is an abandoned, idled or under-used industrial or commercial property where expansion or redevelopment is complicated by known or potential releases of hazardous substances and/or petroleum.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/13/2018
Date Made Active in Reports: 10/16/2018
Number of Days to Update: 33
Source: Ohio EPA
Telephone: 614-644-3748
Last EDR Contact: 09/13/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/18/2018
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 86
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/18/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

HIST LF: Old Solid Waste Landfill
A list of about 1200 old abandoned dumps or landfills. This database was developed from Ohio EPA staff notebooks and other information dating from the mid-1970s

Date of Government Version: 09/08/2018
Date Data Arrived at EDR: 09/13/2018
Date Made Active in Reports: 10/16/2018
Number of Days to Update: 33

Source: Ohio EPA
Telephone: 614-644-3749
Last EDR Contact: 09/13/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: No Update Planned

SWRCY: Recycling Facility Listing
A listing of recycling facility locations.

Date of Government Version: 07/23/2018
Date Data Arrived at EDR: 07/25/2018
Date Made Active in Reports: 08/15/2018
Number of Days to Update: 21

Source: Ohio EPA
Telephone: 614-728-5357
Last EDR Contact: 10/09/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Quarterly

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 10/25/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 11/02/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 05/18/2018
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 86

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/28/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: No Update Planned

CDL: Clandestine Drug Lab Locations

A list of clandestine drug lab sites with environmental impact. This list is extracted from the SPILLS database based on the "product" type.

Date of Government Version: 08/20/2018
Date Data Arrived at EDR: 08/22/2018
Date Made Active in Reports: 09/27/2018
Number of Days to Update: 36

Source: Ohio EPA
Telephone: 614-644-2080
Last EDR Contact: 08/20/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Semi-Annually

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/18/2018
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 86

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/28/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

ARCHIVE UST: Archived Underground Storage Tank Sites

Underground storage tank records that have been removed from the Underground Storage Tank database.

Date of Government Version: 08/08/2018
Date Data Arrived at EDR: 08/10/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 40

Source: Department of Commerce, Division of State Fire Marshal
Telephone: 614-752-7938
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Quarterly

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 10/04/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/26/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 73

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 09/25/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

SPILLS: Emergency Response Database

Incidents reported to the Emergency Response Unit. The focus of the ER program is to minimize the impact on the environment from accidental releases, spills, and unauthorized discharges from any fixed or mobile sources. Incidents involving petroleum products, hazardous materials, hazardous waste, abandoned drums, or other materials which may pose as a pollution threat to the state?s water, land, or air should be reported immediately. Not all incidents included in the database are actual SPILLS, they can simply be reported incidents.

Date of Government Version: 08/20/2018
Date Data Arrived at EDR: 08/22/2018
Date Made Active in Reports: 09/27/2018
Number of Days to Update: 36

Source: Ohio EPA
Telephone: 614-644-2084
Last EDR Contact: 08/20/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Semi-Annually

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 09/13/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 55

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 04/24/2004
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/01/2013
Number of Days to Update: 57

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 09/19/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 10/12/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/12/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/27/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 100

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 09/25/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 08/03/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/21/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/24/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 57

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 10/04/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 08/01/2018
Date Data Arrived at EDR: 08/22/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 10/23/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 10/04/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2017
Date Data Arrived at EDR: 06/09/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 126

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/11/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 10/09/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 10/11/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 09/07/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 09/04/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/02/2018
Date Data Arrived at EDR: 07/05/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 10/03/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 10/30/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/17/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 80

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 10/01/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/09/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 11/01/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/20/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 10/04/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/01/2018
Date Data Arrived at EDR: 08/29/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 37

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/31/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/31/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 09/10/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 08/07/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 30

Source: EPA
Telephone: (312) 353-2000
Last EDR Contact: 09/18/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/02/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 9

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 09/05/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 06/19/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 87

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 10/15/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 08/31/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/22/2018
Date Data Arrived at EDR: 08/22/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 44

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/22/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Quarterly

AIRS: Title V Permits Listing

A listing of Title V Permits issued by the Division of Air Pollution Control. It is a federal operating permit program adopted and implemented by the state. The basic program elements typically specify that major sources will submit an operating application to the specified state environmental regulatory agency according to a schedule.

Date of Government Version: 09/25/2018
Date Data Arrived at EDR: 09/27/2018
Date Made Active in Reports: 10/17/2018
Number of Days to Update: 20

Source: Ohio EPA
Telephone: 614-644-2270
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Quarterly

COAL ASH: Coal Ash Disposal Site Listing
A listing of coal ash disposal site locations.

Date of Government Version: 04/13/2015
Date Data Arrived at EDR: 04/16/2015
Date Made Active in Reports: 05/29/2015
Number of Days to Update: 43

Source: Ohio EPA
Telephone: 614-644-2134
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Varies

CRO: Cessation of Regulated Operations Facility Listing
"Cessation of Regulated Operations" means the discontinuation or termination of regulated operations or the finalizing of any transaction or proceeding through which those operations are discontinued. "Regulated Operations" means the production, use, storage or handling of regulated substances.

Date of Government Version: 09/27/2017
Date Data Arrived at EDR: 11/09/2017
Date Made Active in Reports: 01/08/2018
Number of Days to Update: 60

Source: Ohio EPA
Telephone: 614-644-3065
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Varies

DRYCLEANERS: Drycleaner Facility Listing
A listing of drycleaner facility locations.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 09/28/2018
Date Made Active in Reports: 10/16/2018
Number of Days to Update: 18

Source: Ohio EPA
Telephone: 614-644-3469
Last EDR Contact: 09/24/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Semi-Annually

Financial Assurance: Financial Assurance Information Listing
Financial assurance information.

Date of Government Version: 12/05/2017
Date Data Arrived at EDR: 12/08/2017
Date Made Active in Reports: 01/08/2018
Number of Days to Update: 31

Source: Ohio EPA
Telephone: 614-644-2955
Last EDR Contact: 10/09/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Semi-Annually

FINANCIAL ASSURANCE 3: Financial Assurance3 Information Listing
Information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 07/27/2018
Date Data Arrived at EDR: 07/31/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 45

Source: Ohio EPA
Telephone: 614-644-2621
Last EDR Contact: 10/22/2019
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Varies

HIST USD: Urban Setting Designations Database
A USD may be requested for properties participating in the VAP when there is no current or future use of the ground water by local residents for drinking, showering, bathing or cooking. In these areas, an approved USD would lower the cost of cleanup and promote economic redevelopment while still protecting public health and safety. If these USDs were to be approved, the ground water cleanup or response requirements for the areas could be lessened. The Ohio EPA director may approve a USD request based on a demonstration that the USD requirements are met and an evaluation of existing and future uses of ground water in the area. The Ohio EPA director’s decision on approval or denial of the request is needed before cleanup requirements for the site can be determined. This database is no longer updated or maintained by the state agency.

Date of Government Version: 05/10/2005
Date Data Arrived at EDR: 04/25/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 16

Source: Ohio EPA
Telephone: 614-644-3749
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

LEAD: Lead Inspections Listing
Department of Health lead inspections included in the Environmental Licensing System.

Date of Government Version: 09/18/2018
Date Data Arrived at EDR: 09/19/2018
Date Made Active in Reports: 10/16/2018
Number of Days to Update: 27

Source: Department of Health
Telephone: 614-466-3543
Last EDR Contact: 09/19/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Quarterly

NPDES: NPDES General Permit List
General information regarding NPDES (National Pollutant Discharge Elimination System) permits.

Date of Government Version: 08/06/2018
Date Data Arrived at EDR: 08/08/2018
Date Made Active in Reports: 09/25/2018
Number of Days to Update: 48

Source: Ohio EPA
Telephone: 614-644-2031
Last EDR Contact: 08/08/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

VAPOR: Vapor Intrusion
A listing of vapor intrusion related sites.

Date of Government Version: 09/18/2018
Date Data Arrived at EDR: 09/20/2018
Date Made Active in Reports: 10/16/2018
Number of Days to Update: 26

Source: Ohio EPA
Telephone: 614-644-2924
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Varies

TOWNGAS: DERR Towngas Database
The database includes 82 very old sites (circa 1895) which produced gas from coal for street lighting. Most visual evidence of these sites has disappeared, however the potential for buried coal tar remains. The database is no longer in active use.

Date of Government Version: 07/28/1992
Date Data Arrived at EDR: 02/21/2003
Date Made Active in Reports: 03/05/2003
Number of Days to Update: 12

Source: Ohio EPA
Telephone: 614-644-3749
Last EDR Contact: 02/12/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UIC: Underground Injection Wells Listing
A listing of underground injection well locations.

Date of Government Version: 07/11/2018
Date Data Arrived at EDR: 08/08/2018
Date Made Active in Reports: 09/24/2018
Number of Days to Update: 47

Source: Ohio EPA
Telephone: 614-644-2752
Last EDR Contact: 08/08/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Varies

USD: Urban Setting Designation Sites
A USD may be requested for properties participating in the VAP when there is no current or future use of the ground water by local residents for drinking, showering, bathing or cooking. In these areas, an approved USD would lower the cost of cleanup and promote economic redevelopment while still protecting public health and safety. If these USDs were to be approved, the ground water cleanup or response requirements for the areas could be lessened. The Ohio EPA director may approve a USD request based on a demonstration that the USD requirements are met and an evaluation of existing and future uses of ground water in the area. The Ohio EPA director's decision on approval or denial of the request is needed before cleanup requirements for the site can be determined.

Date of Government Version: 06/21/2018
Date Data Arrived at EDR: 08/08/2018
Date Made Active in Reports: 09/24/2018
Number of Days to Update: 47

Source: Ohio EPA
Telephone: 614-644-3749
Last EDR Contact: 08/08/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Semi-Annually

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Ohio Environmental Procetion Agency in Ohio.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Ohio Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Commerce in Ohio.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/20/2013
Number of Days to Update: 172

Source: Department of Commerce
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 08/10/2018
Date Data Arrived at EDR: 08/10/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 31

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 08/01/2018
Number of Days to Update: 19

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/09/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 07/01/2018
Date Data Arrived at EDR: 08/01/2018
Date Made Active in Reports: 08/31/2018
Number of Days to Update: 30

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 10/31/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 07/25/2017
Date Made Active in Reports: 09/25/2017
Number of Days to Update: 62

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/15/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/21/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 08/23/2018
Date Data Arrived at EDR: 08/23/2018
Date Made Active in Reports: 09/18/2018
Number of Days to Update: 26

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 10/15/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/06/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Child Day Care Facilities
Source: Department of Job & Family Services
Telephone: 614-466-6282

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

HILLIARD MULTI-USE SPORTS COMPLEX
COSGRAY ROAD
HILLIARD, OH 43026

TARGET PROPERTY COORDINATES

Latitude (North):	40.049693 - 40° 2' 58.89''
Longitude (West):	83.176443 - 83° 10' 35.19''
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	314341.6
UTM Y (Meters):	4435332.0
Elevation:	940 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5964865 HILLIARD, OH
Version Date:	2013

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

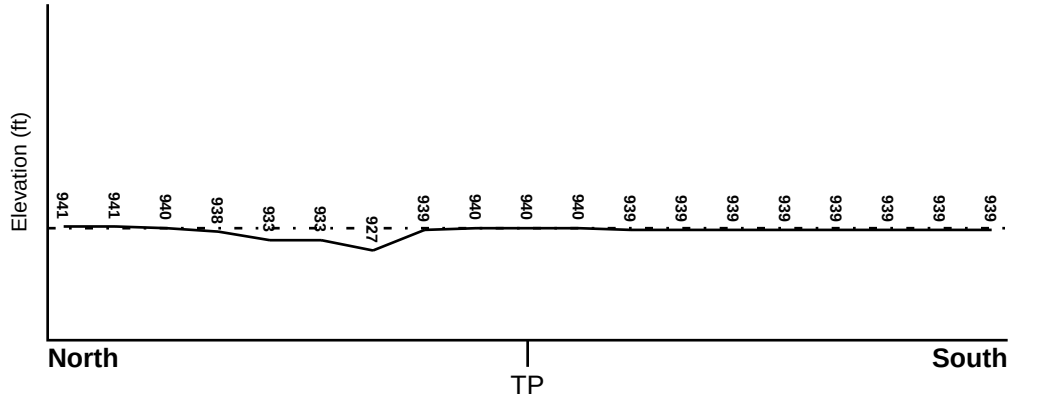
TOPOGRAPHIC INFORMATION

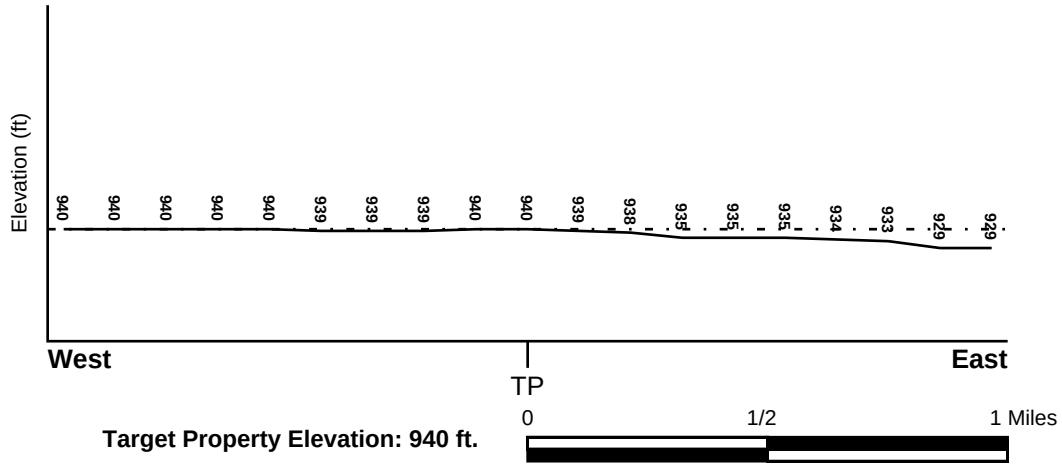
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





0 1/2 1 Miles

Target Property Elevation: 940 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
39049C0141K	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
39049C0133K	FEMA FIRM Flood data
39097C0090D	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
HILLIARD	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

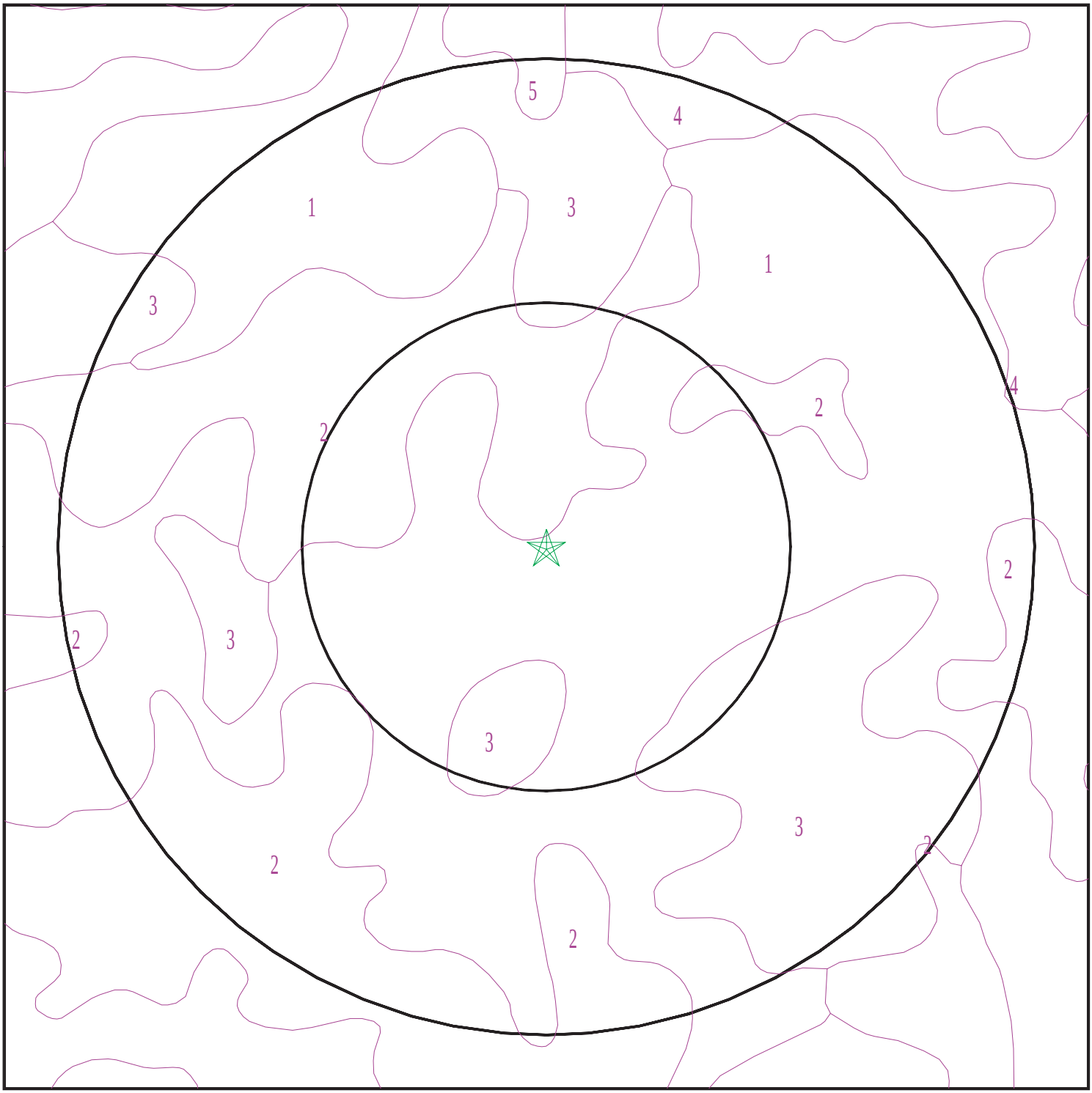
Era:	Paleozoic
System:	Devonian
Series:	Middle Devonian
Code:	D2 *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5473965.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Hilliard Multi-Use Sports Complex	CLIENT:	S&ME
ADDRESS:	Cosgray Road Hilliard OH 43026	CONTACT:	Samuel Staschiak
LAT/LONG:	40.049693 / 83.176443	INQUIRY #:	5473965.2s
		DATE:	November 05, 2018 8:17 am

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Crosby

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 0.42	Max: 8.4 Min: 7.9
2	9 inches	35 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 0.42	Max: 8.4 Min: 7.9
3	35 inches	70 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 0.42	Max: 8.4 Min: 7.9

Soil Map ID: 2

Soil Component Name: Kokomo

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B/D - Drained/undrained hydrology class of soils that can be drained and are classified.

Soil Drainage Class: Very poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 15 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 1.41	Max: 8.4 Min: 7.4
2	9 inches	42 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 1.41	Max: 8.4 Min: 7.4
3	42 inches	70 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 1.41	Max: 8.4 Min: 7.4

Soil Map ID: 3

Soil Component Name: Crosby

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 0.42	Max: 8.4 Min: 7.9
2	9 inches	31 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 0.42	Max: 8.4 Min: 7.9
3	31 inches	70 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 0.42	Max: 8.4 Min: 7.9

Soil Map ID: 4

Soil Component Name: Celina

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 69 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 1.41	Max: 8.4 Min: 7.4
2	7 inches	25 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 1.41	Max: 8.4 Min: 7.4
3	25 inches	70 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 1.41	Max: 8.4 Min: 7.4

Soil Map ID: 5

Soil Component Name: Miamian

Soil Surface Texture: silty clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 1.41	Max: 8.4 Min: 7.4
2	9 inches	35 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 1.41	Max: 8.4 Min: 7.4
3	35 inches	70 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 1.41	Max: 8.4 Min: 7.4

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	OHD800000225556	1/8 - 1/4 Mile NE
A2	OHD800000050298	1/4 - 1/2 Mile SW
B3	OHD800000045866	1/4 - 1/2 Mile NE
4	OHD800000222414	1/4 - 1/2 Mile WNW
C5	OHD800000050297	1/4 - 1/2 Mile NW
B6	OHD800000052639	1/4 - 1/2 Mile NE
7	OHD800000055249	1/4 - 1/2 Mile West
A8	OHD800000276168	1/4 - 1/2 Mile SW
D9	OHD800000306084	1/4 - 1/2 Mile SW
C10	OHD800000050296	1/4 - 1/2 Mile NW
11	OHD800000055284	1/4 - 1/2 Mile WNW
C12	OHD800000050295	1/4 - 1/2 Mile NW
C13	OHD800000331426	1/4 - 1/2 Mile NW
D14	OHD800000382802	1/4 - 1/2 Mile WSW
15	OHD800000385247	1/4 - 1/2 Mile NNE
E16	OHD800000313613	1/4 - 1/2 Mile NNW
F17	OHD800000346686	1/4 - 1/2 Mile SSE
F18	OHD800000315950	1/4 - 1/2 Mile SSE
F19	OHD800000050301	1/4 - 1/2 Mile SE
G20	OHD800000056323	1/4 - 1/2 Mile NW
H21	OHD800000051793	1/4 - 1/2 Mile NNE
F22	OHD800000045864	1/4 - 1/2 Mile SE
E23	OHD800000368814	1/4 - 1/2 Mile NNW
24	OHD800000412636	1/4 - 1/2 Mile SSW
I25	OHD800000050302	1/4 - 1/2 Mile SE
F26	OHD800000378350	1/4 - 1/2 Mile SE
E27	OHD800000051623	1/4 - 1/2 Mile NNW
G28	OHD800000056318	1/4 - 1/2 Mile NW
H29	OHD800000051631	1/4 - 1/2 Mile North
G30	OHD800000056322	1/4 - 1/2 Mile NW
G31	OHD800000056317	1/2 - 1 Mile NW
J32	OHD800000051379	1/2 - 1 Mile NNW
K33	OHD800000050300	1/2 - 1 Mile SSE
L34	OHD800000054873	1/2 - 1 Mile NW
I35	OHD800000331427	1/2 - 1 Mile SE
M36	OHD800000332273	1/2 - 1 Mile NW
K37	OHD800000045865	1/2 - 1 Mile SSE
38	OHD800000050303	1/2 - 1 Mile ENE
L39	OHD800000413155	1/2 - 1 Mile NW
K40	OHD800000045863	1/2 - 1 Mile SSE
M41	OHD800000056321	1/2 - 1 Mile NNW
J42	OHD800000054707	1/2 - 1 Mile NNW
M43	OHD800000056316	1/2 - 1 Mile NW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

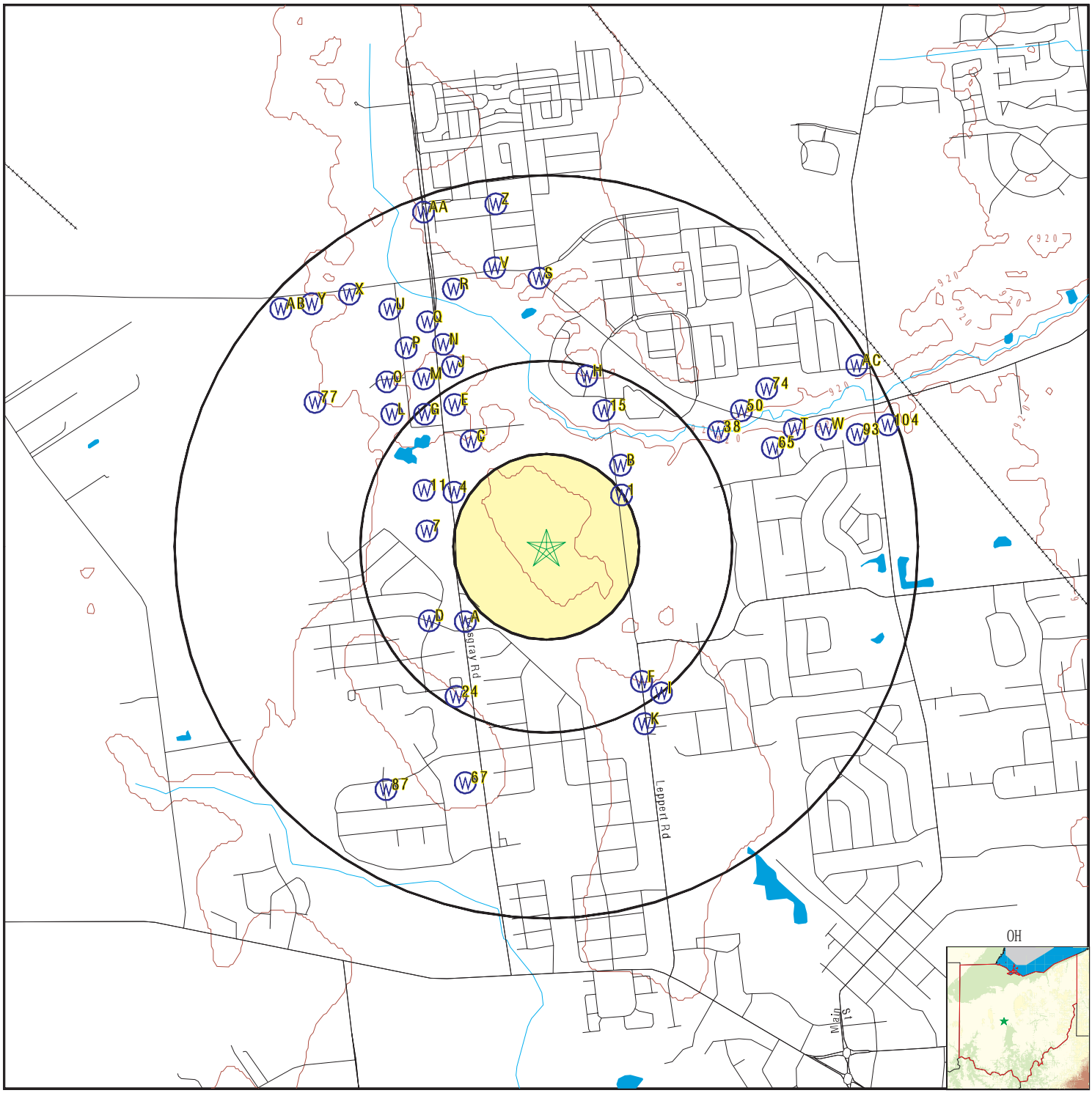
MAP ID	WELL ID	LOCATION FROM TP
N44	OHD800000336033	1/2 - 1 Mile NNW
N45	OHD800000051378	1/2 - 1 Mile NNW
O46	OHD800000372638	1/2 - 1 Mile NW
N47	OHD800000054912	1/2 - 1 Mile NNW
N48	OHD800000332274	1/2 - 1 Mile NNW
O49	OHD800000054421	1/2 - 1 Mile NW
50	OHD800000259630	1/2 - 1 Mile NE
P51	OHD800000053756	1/2 - 1 Mile NW
N52	OHD800000051377	1/2 - 1 Mile NNW
P53	OHD800000256602	1/2 - 1 Mile NW
P54	OHD800000051627	1/2 - 1 Mile NW
P55	OHD800000051628	1/2 - 1 Mile NW
P56	OHD800000051626	1/2 - 1 Mile NW
P57	OHD800000051624	1/2 - 1 Mile NW
P58	OHD800000051625	1/2 - 1 Mile NW
P59	OHD800000051629	1/2 - 1 Mile NW
P60	OHD800000332718	1/2 - 1 Mile NW
P61	OHD800000443765	1/2 - 1 Mile NW
P62	OHD800000332275	1/2 - 1 Mile NW
P63	OHD800000051630	1/2 - 1 Mile NW
P64	OHD800000325317	1/2 - 1 Mile NW
65	OHD800000050304	1/2 - 1 Mile ENE
P66	OHD800000405461	1/2 - 1 Mile NW
67	OHD800000050299	1/2 - 1 Mile SSW
Q68	OHD800000056320	1/2 - 1 Mile NNW
Q69	OHD800000054700	1/2 - 1 Mile NNW
R70	OHD800000374704	1/2 - 1 Mile NNW
P71	OHD800000054420	1/2 - 1 Mile NW
Q72	OHD800000056319	1/2 - 1 Mile NNW
S73	OHD800000056768	1/2 - 1 Mile North
74	OHD800000051794	1/2 - 1 Mile NE
T75	OHD800000254216	1/2 - 1 Mile ENE
S76	OHD800000332276	1/2 - 1 Mile North
77	OHD800000287655	1/2 - 1 Mile WNW
R78	OHD800000051376	1/2 - 1 Mile NNW
R79	OHD800000326841	1/2 - 1 Mile NNW
U80	OHD800000054419	1/2 - 1 Mile NW
R81	OHD800000056324	1/2 - 1 Mile NNW
T82	OHD800000050305	1/2 - 1 Mile ENE
U83	OHD800000053755	1/2 - 1 Mile NNW
V84	OHD800000056769	1/2 - 1 Mile North
V85	OHD800000264669	1/2 - 1 Mile NNW
R86	OHD800000261791	1/2 - 1 Mile NNW
87	OHD800000282464	1/2 - 1 Mile SSW
W88	OHD800000050306	1/2 - 1 Mile ENE
U89	OHD800000332269	1/2 - 1 Mile NW
X90	OHD800000054418	1/2 - 1 Mile NW
W91	OHD800000318454	1/2 - 1 Mile ENE
Y92	OHD800000054417	1/2 - 1 Mile NW
93	OHD800000331428	1/2 - 1 Mile ENE
X94	OHD800000196284	1/2 - 1 Mile NW
Z95	OHD800000309319	1/2 - 1 Mile North

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
Y96	OHD800000054415	1/2 - 1 Mile NW
Y97	OHD800000054416	1/2 - 1 Mile NW
AA98	OHD800000054705	1/2 - 1 Mile NNW
AB99	OHD800000412981	1/2 - 1 Mile NW
Z100	OHD800000054456	1/2 - 1 Mile North
Z101	OHD800000339511	1/2 - 1 Mile North
AC102	OHD800000053362	1/2 - 1 Mile ENE
AB103	OHD800000054414	1/2 - 1 Mile NW
104	OHD800000050307	1/2 - 1 Mile ENE
AB105	OHD800000054413	1/2 - 1 Mile NW
AA106	OHD800000304227	1/2 - 1 Mile NNW
AC107	OHD800000301594	1/2 - 1 Mile ENE

PHYSICAL SETTING SOURCE MAP - 5473965.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Oil, gas or related wells

SITE NAME:	Hilliard Multi-Use Sports Complex	CLIENT:	S&ME
ADDRESS:	Cosgray Road Hilliard OH 43026	CONTACT:	Samuel Staschiak
LAT/LONG:	40.049693 / 83.176443	INQUIRY #:	5473965.2s
		DATE:	November 05, 2018 8:17 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database | EDR ID Number

1
NE
1/8 - 1/4 Mile
Lower

OH WELLS **OHD800000225556**

Database:	Water Well Database	Well Log #:	902495
Well Type:	Water Well	Drill Type:	ROTARY
Test Type:	Pumping	Well Use:	DOMESTIC
Aquifer Type:	SAND AND GRAVEL	Permit #:	99-00233
Test Rate:	15	Draw Down:	0
Test Duration:	1	Surface Water Level:	27
Date Measured:	2000 4 5	Casing Height:	1
Screen Length:	0	Total Depth:	110
Completion Date:	2000 4 5	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

A2
SW
1/4 - 1/2 Mile
Lower

OH WELLS **OHD800000050298**

Database:	Water Well Database	Well Log #:	446580
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	ROCK	Permit #:	Not Reported
Test Rate:	15	Draw Down:	3
Test Duration:	2	Surface Water Level:	70
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	204
Completion Date:	1973 210	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	870	Well Drilled By:	Not Reported

B3
NE
1/4 - 1/2 Mile
Lower

OH WELLS **OHD800000045866**

Database:	Water Well Database	Well Log #:	842041
Well Type:	Water Well	Drill Type:	ROTARY
Test Type:	Not Reported	Well Use:	DOMESTIC
Aquifer Type:	GRAVEL AND CLAY	Permit #:	Not Reported
Test Rate:	50	Draw Down:	0
Test Duration:	1	Surface Water Level:	22
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	62
Completion Date:	1996 827	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported

Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

4
WNW **OH WELLS** **OHD800000222414**
1/4 - 1/2 Mile
Lower

Database:	Water Well Database	Well Log #:	874183
Well Type:	Water Well	Drill Type:	ROTARY
Test Type:	Air	Well Use:	DOMESTIC
Aquifer Type:	LIMESTONE	Permit #:	99-116
Test Rate:	25	Draw Down:	14
Test Duration:	1	Surface Water Level:	36
Date Measured:	1999 717	Casing Height:	1.1
Screen Length:	0	Total Depth:	140
Completion Date:	1999 717	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

C5
NW **OH WELLS** **OHD800000050297**
1/4 - 1/2 Mile
Lower

Database:	Water Well Database	Well Log #:	194884
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	0	Draw Down:	0
Test Duration:	0	Surface Water Level:	41
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	97
Completion Date:	1958 326	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	899	Well Drilled By:	Not Reported

B6
NE **OH WELLS** **OHD800000052639**
1/4 - 1/2 Mile
Lower

Database:	Water Well Database	Well Log #:	44240
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	GRAVEL	Permit #:	Not Reported
Test Rate:	16	Draw Down:	0
Test Duration:	2	Surface Water Level:	17
Date Measured:	0	Casing Height:	0

Screen Length:	0	Total Depth:	117
Completion Date:	19501021	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

7
West
1/4 - 1/2 Mile
Lower

OH WELLS **OHD800000055249**

Database:	Water Well Database	Well Log #:	832786
Well Type:	Water Well	Drill Type:	CABLE TOOL
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	16	Draw Down:	2
Test Duration:	24	Surface Water Level:	46
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	95
Completion Date:	19961216	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

A8
SW
1/4 - 1/2 Mile
Lower

OH WELLS **OHD800000276168**

Database:	Water Well Database	Well Log #:	950781
Well Type:	Water Well	Drill Type:	ROTARY
Test Type:	Air	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	50	Draw Down:	77
Test Duration:	1	Surface Water Level:	23
Date Measured:	20031215	Casing Height:	1
Screen Length:	0	Total Depth:	220
Completion Date:	20031229	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

D9
SW
1/4 - 1/2 Mile
Lower

OH WELLS **OHD800000306084**

Database:	Water Well Database	Well Log #:	484286
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported

Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	25	Draw Down:	40
Test Duration:	1.5	Surface Water Level:	28
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	117
Completion Date:	197510 2	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	912	Well Drilled By:	Not Reported

C10
NW
1/4 - 1/2 Mile
Lower

OH WELLS **OHD800000050296**

Database:	Water Well Database	Well Log #:	251835
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	15	Draw Down:	17
Test Duration:	2	Surface Water Level:	21
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	104
Completion Date:	1961 3 7	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	919	Well Drilled By:	Not Reported

11
WNW
1/4 - 1/2 Mile
Lower

OH WELLS **OHD800000055284**

Database:	Water Well Database	Well Log #:	743039
Well Type:	Water Well	Drill Type:	CABLE TOOL
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	34	Draw Down:	16
Test Duration:	4	Surface Water Level:	26
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	120
Completion Date:	1992 519	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C12
NW
1/4 - 1/2 Mile
Higher

OH WELLS **OHD800000050295**

Database:	Water Well Database	Well Log #:	456886
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	ROCK	Permit #:	Not Reported
Test Rate:	5	Draw Down:	30
Test Duration:	4	Surface Water Level:	18
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	98
Completion Date:	1974 921	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	922	Well Drilled By:	Not Reported

C13
NW
1/4 - 1/2 Mile
Higher

OH WELLS **OHD800000331426**

Database:	Water Well Database	Well Log #:	410264
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	GRAVEL	Permit #:	Not Reported
Test Rate:	8	Draw Down:	0
Test Duration:	24	Surface Water Level:	40
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	75
Completion Date:	19701115	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	900	Well Drilled By:	Not Reported

D14
WSW
1/4 - 1/2 Mile
Lower

OH WELLS **OHD800000382802**

Database:	Water Well Database	Well Log #:	2015427
Well Type:	Water Well	Drill Type:	ROTARY
Test Type:	Air	Well Use:	DEWATERING WELL
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	100	Draw Down:	0
Test Duration:	.5	Surface Water Level:	25
Date Measured:	2008 3 5	Casing Height:	3
Screen Length:	0	Total Depth:	220
Completion Date:	2008 3 5	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported

Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

15
NNE **OH WELLS** **OHD800000385247**
1/4 - 1/2 Mile
Lower

Database:	Water Well Database	Well Log #:	2013898
Well Type:	Water Well	Drill Type:	ROTARY
Test Type:	Air	Well Use:	OTHER
Aquifer Type:	GRAVEL	Permit #:	Not Reported
Test Rate:	70	Draw Down:	0
Test Duration:	2	Surface Water Level:	18
Date Measured:	20071025	Casing Height:	1
Screen Length:	13	Total Depth:	127
Completion Date:	20071025	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	5	Screen Type:	LOUVERED
Screen Material:	PVC	Pump Type:	SUBMERSIBLE
Pump Capacity:	0	Pump Installed By:	BY OWNER
Water Level Elevation:	0	Well Drilled By:	Not Reported

E16
NNW **OH WELLS** **OHD800000313613**
1/4 - 1/2 Mile
Higher

Database:	Water Well Database	Well Log #:	257086
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	0	Draw Down:	40
Test Duration:	0	Surface Water Level:	17
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	115
Completion Date:	1961 517	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	923	Well Drilled By:	Not Reported

F17
SSE **OH WELLS** **OHD800000346686**
1/4 - 1/2 Mile
Higher

Database:	Water Well Database	Well Log #:	2010441
Well Type:	Water Well	Drill Type:	ROTARY
Test Type:	Air	Well Use:	DOMESTIC
Aquifer Type:	SAND AND GRAVEL	Permit #:	2007-79
Test Rate:	30	Draw Down:	20
Test Duration:	1	Surface Water Level:	44
Date Measured:	2007 620	Casing Height:	1

Screen Length:	2	Total Depth:	142
Completion Date:	2007 620	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	5.5	Screen Type:	MACHINE SLOTTED
Screen Material:	PVC	Pump Type:	SUBMERSIBLE
Pump Capacity:	10	Pump Installed By:	YUTZY BROS.
Water Level Elevation:	0	Well Drilled By:	Not Reported

F18
SSE
1/4 - 1/2 Mile
Higher

OH WELLS **OHD800000315950**

Database:	Water Well Database	Well Log #:	484271
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	GRAVEL	Permit #:	Not Reported
Test Rate:	20	Draw Down:	0
Test Duration:	2	Surface Water Level:	30
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	224
Completion Date:	1975 723	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	910	Well Drilled By:	Not Reported

F19
SE
1/4 - 1/2 Mile
Lower

OH WELLS **OHD800000050301**

Database:	Water Well Database	Well Log #:	415739
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	GRAVEL	Permit #:	Not Reported
Test Rate:	15	Draw Down:	0
Test Duration:	1	Surface Water Level:	27
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	119
Completion Date:	1971 824	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	913	Well Drilled By:	Not Reported

G20
NW
1/4 - 1/2 Mile
Higher

OH WELLS **OHD800000056323**

Database:	Water Well Database	Well Log #:	456885
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported

Aquifer Type:	ROCK	Permit #:	Not Reported
Test Rate:	5	Draw Down:	0
Test Duration:	3	Surface Water Level:	30
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	91
Completion Date:	1974 914	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	910	Well Drilled By:	Not Reported

H21
NNE
1/4 - 1/2 Mile
Higher

OH WELLS **OHD800000051793**

Database:	Water Well Database	Well Log #:	657903
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	GRAVEL	Permit #:	Not Reported
Test Rate:	10	Draw Down:	0
Test Duration:	1	Surface Water Level:	30
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	140
Completion Date:	1986 8 7	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	910	Well Drilled By:	Not Reported

F22
SE
1/4 - 1/2 Mile
Higher

OH WELLS **OHD800000045864**

Database:	Water Well Database	Well Log #:	743642
Well Type:	Water Well	Drill Type:	ROTARY
Test Type:	Not Reported	Well Use:	DOMESTIC
Aquifer Type:	SAND AND GRAVEL	Permit #:	Not Reported
Test Rate:	10	Draw Down:	0
Test Duration:	1	Surface Water Level:	32
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	75
Completion Date:	19911217	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

E23
NNW
1/4 - 1/2 Mile
Higher

OH WELLS **OHD800000368814**

Database:	Water Well Database	Well Log #:	2018665
Well Type:	Water Well	Drill Type:	ROTARY
Test Type:	Air	Well Use:	DOMESTIC
Aquifer Type:	LIMESTONE	Permit #:	2008-100
Test Rate:	15	Draw Down:	0
Test Duration:	1	Surface Water Level:	50
Date Measured:	2008 915	Casing Height:	1
Screen Length:	0	Total Depth:	160
Completion Date:	2008 915	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	SUBMERSIBLE
Pump Capacity:	10	Pump Installed By:	YUTZY PUMP
Water Level Elevation:	0	Well Drilled By:	Not Reported

24
SSW
1/4 - 1/2 Mile
Higher

OH WELLS **OHD800000412636**

Database:	Water Well Database	Well Log #:	594442
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	20	Draw Down:	0
Test Duration:	8	Surface Water Level:	38
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	112
Completion Date:	198210 1	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	902	Well Drilled By:	Not Reported

I25
SE
1/4 - 1/2 Mile
Higher

OH WELLS **OHD800000050302**

Database:	Water Well Database	Well Log #:	312223
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	GRAVEL	Permit #:	Not Reported
Test Rate:	10	Draw Down:	14
Test Duration:	0	Surface Water Level:	20
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	44
Completion Date:	19651127	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported

Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	920	Well Drilled By:	Not Reported

F26
SE
1/4 - 1/2 Mile
Higher

OH WELLS **OHD800000378350**

Database:	Water Well Database	Well Log #:	2017089
Well Type:	Water Well	Drill Type:	ROTARY
Test Type:	Air	Well Use:	DOMESTIC
Aquifer Type:	SAND AND GRAVEL	Permit #:	2008-58
Test Rate:	10	Draw Down:	5
Test Duration:	1	Surface Water Level:	35
Date Measured:	2008 620	Casing Height:	1
Screen Length:	4	Total Depth:	71
Completion Date:	2008 620	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	5	Screen Type:	MACHINE SLOTTED
Screen Material:	PVC	Pump Type:	SUBMERSIBLE
Pump Capacity:	0	Pump Installed By:	OWNER DOING INSTALL
Water Level Elevation:	0	Well Drilled By:	Not Reported

E27
NNW
1/4 - 1/2 Mile
Higher

OH WELLS **OHD800000051623**

Database:	Water Well Database	Well Log #:	296228
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	15	Draw Down:	15
Test Duration:	2	Surface Water Level:	21
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	115
Completion Date:	1964 6 1	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	919	Well Drilled By:	Not Reported

G28
NW
1/4 - 1/2 Mile
Higher

OH WELLS **OHD800000056318**

Database:	Water Well Database	Well Log #:	478208
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	GRAVEL	Permit #:	Not Reported
Test Rate:	8	Draw Down:	0
Test Duration:	0	Surface Water Level:	25
Date Measured:	0	Casing Height:	0

Screen Length:	0	Total Depth:	83
Completion Date:	197512 5	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	915	Well Drilled By:	Not Reported

H29
North
1/4 - 1/2 Mile
Higher

OH WELLS **OHD800000051631**

Database:	Water Well Database	Well Log #:	129458
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	GRAVEL	Permit #:	Not Reported
Test Rate:	20	Draw Down:	18
Test Duration:	2	Surface Water Level:	24
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	153
Completion Date:	1955 318	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	916	Well Drilled By:	Not Reported

G30
NW
1/4 - 1/2 Mile
Higher

OH WELLS **OHD800000056322**

Database:	Water Well Database	Well Log #:	456884
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	ROCK	Permit #:	Not Reported
Test Rate:	5	Draw Down:	0
Test Duration:	3	Surface Water Level:	30
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	102
Completion Date:	1974 830	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	910	Well Drilled By:	Not Reported

G31
NW
1/2 - 1 Mile
Higher

OH WELLS **OHD800000056317**

Database:	Water Well Database	Well Log #:	478221
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported

Aquifer Type:	GRAVEL	Permit #:	Not Reported
Test Rate:	8	Draw Down:	0
Test Duration:	0	Surface Water Level:	10
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	69
Completion Date:	1976 220	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	930	Well Drilled By:	Not Reported

J32
NNW **OH WELLS** **OHD800000051379**
1/2 - 1 Mile
Higher

Database:	Water Well Database	Well Log #:	397655
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	15	Draw Down:	20
Test Duration:	2	Surface Water Level:	40
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	223
Completion Date:	1969 927	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	900	Well Drilled By:	Not Reported

K33
SSE **OH WELLS** **OHD800000050300**
1/2 - 1 Mile
Higher

Database:	Water Well Database	Well Log #:	322515
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	GRAVEL	Permit #:	Not Reported
Test Rate:	15	Draw Down:	33
Test Duration:	0	Surface Water Level:	70
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	117
Completion Date:	196412 9	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	870	Well Drilled By:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database | EDR ID Number

L34
NW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000054873**

Database:	Water Well Database	Well Log #:	502776
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	8	Draw Down:	0
Test Duration:	1	Surface Water Level:	50
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	160
Completion Date:	1977 714	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	890	Well Drilled By:	Not Reported

I35
SE
1/2 - 1 Mile
Higher

OH WELLS **OHD800000331427**

Database:	Water Well Database	Well Log #:	406330
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	SAND AND GRAVEL	Permit #:	Not Reported
Test Rate:	0	Draw Down:	0
Test Duration:	0	Surface Water Level:	89
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	119
Completion Date:	1971 415	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	851	Well Drilled By:	Not Reported

M36
NW
1/2 - 1 Mile
Higher

OH WELLS **OHD800000332273**

Database:	Water Well Database	Well Log #:	456882
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	ROCK	Permit #:	Not Reported
Test Rate:	5	Draw Down:	0
Test Duration:	3	Surface Water Level:	30
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	93
Completion Date:	1974 824	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported

Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	910	Well Drilled By:	Not Reported

K37
SSE **OH WELLS** **OHD800000045865**
1/2 - 1 Mile
Higher

Database:	Water Well Database	Well Log #:	797999
Well Type:	Water Well	Drill Type:	ROTARY
Test Type:	Not Reported	Well Use:	DOMESTIC
Aquifer Type:	SAND AND GRAVEL	Permit #:	Not Reported
Test Rate:	10	Draw Down:	0
Test Duration:	1	Surface Water Level:	28
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	67
Completion Date:	1994 919	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

38
ENE **OH WELLS** **OHD800000050303**
1/2 - 1 Mile
Lower

Database:	Water Well Database	Well Log #:	354981
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	12	Draw Down:	33
Test Duration:	0	Surface Water Level:	20
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	113
Completion Date:	1967 119	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	890	Well Drilled By:	Not Reported

L39
NW **OH WELLS** **OHD800000413155**
1/2 - 1 Mile
Lower

Database:	Water Well Database	Well Log #:	504810
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	GRAVEL	Permit #:	Not Reported
Test Rate:	10	Draw Down:	18
Test Duration:	2	Surface Water Level:	8
Date Measured:	0	Casing Height:	0

Screen Length:	0	Total Depth:	58
Completion Date:	19761029	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	932	Well Drilled By:	Not Reported

K40
SSE **OH WELLS** **OHD800000045863**
1/2 - 1 Mile
Higher

Database:	Water Well Database	Well Log #:	765420
Well Type:	Water Well	Drill Type:	ROTARY
Test Type:	Not Reported	Well Use:	DOMESTIC
Aquifer Type:	SAND AND GRAVEL	Permit #:	Not Reported
Test Rate:	10	Draw Down:	0
Test Duration:	1	Surface Water Level:	25
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	77
Completion Date:	1993 2 9	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

M41
NNW **OH WELLS** **OHD800000056321**
1/2 - 1 Mile
Higher

Database:	Water Well Database	Well Log #:	467648
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	10	Draw Down:	0
Test Duration:	1	Surface Water Level:	30
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	172
Completion Date:	1974 731	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	910	Well Drilled By:	Not Reported

J42
NNW **OH WELLS** **OHD800000054707**
1/2 - 1 Mile
Higher

Database:	Water Well Database	Well Log #:	663771
Well Type:	Water Well	Drill Type:	CABLE TOOL
Test Type:	Not Reported	Well Use:	Not Reported

Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	12	Draw Down:	23
Test Duration:	0	Surface Water Level:	32
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	215
Completion Date:	1988 422	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

M43
NW
1/2 - 1 Mile
Higher

OH WELLS **OHD800000056316**

Database:	Water Well Database	Well Log #:	478223
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	SAND AND GRAVEL	Permit #:	Not Reported
Test Rate:	8	Draw Down:	0
Test Duration:	0	Surface Water Level:	20
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	79
Completion Date:	1976 225	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	920	Well Drilled By:	Not Reported

N44
NNW
1/2 - 1 Mile
Higher

OH WELLS **OHD800000336033**

Database:	Water Well Database	Well Log #:	1007508
Well Type:	Water Well	Drill Type:	ROTARY
Test Type:	Not Reported	Well Use:	DOMESTIC
Aquifer Type:	GRAVEL	Permit #:	200798
Test Rate:	15	Draw Down:	8
Test Duration:	1	Surface Water Level:	38
Date Measured:	2007 8 1	Casing Height:	1
Screen Length:	4	Total Depth:	65
Completion Date:	2007 8 1	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

N45
NNW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000051378**

Database:	Water Well Database	Well Log #:	397690
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	15	Draw Down:	28
Test Duration:	90	Surface Water Level:	40
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	230
Completion Date:	1970 9 5	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	900	Well Drilled By:	Not Reported

O46
NW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000372638**

Database:	Water Well Database	Well Log #:	1011602
Well Type:	Water Well	Drill Type:	ROTARY
Test Type:	Pumping	Well Use:	DOMESTIC
Aquifer Type:	LIMESTONE	Permit #:	200963
Test Rate:	20	Draw Down:	0
Test Duration:	6	Surface Water Level:	31
Date Measured:	2009 828	Casing Height:	1
Screen Length:	0	Total Depth:	120
Completion Date:	2009 829	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

N47
NNW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000054912**

Database:	Water Well Database	Well Log #:	690670
Well Type:	Water Well	Drill Type:	CABLE TOOL
Test Type:	Not Reported	Well Use:	PUBLIC/SEMI-PUB
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	15	Draw Down:	87
Test Duration:	2	Surface Water Level:	45
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	215
Completion Date:	1989 313	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported

Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

N48
NNW **OH WELLS** **OHD800000332274**
1/2 - 1 Mile
Lower

Database:	Water Well Database	Well Log #:	261329
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	0	Draw Down:	25
Test Duration:	0	Surface Water Level:	36
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	207
Completion Date:	1962 228	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	901	Well Drilled By:	Not Reported

O49
NW **OH WELLS** **OHD800000054421**
1/2 - 1 Mile
Lower

Database:	Water Well Database	Well Log #:	559852
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	10	Draw Down:	0
Test Duration:	1	Surface Water Level:	40
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	122
Completion Date:	1979 918	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	900	Well Drilled By:	Not Reported

50
NE **OH WELLS** **OHD800000259630**
1/2 - 1 Mile
Lower

Database:	Water Well Database	Well Log #:	948377
Well Type:	Water Well	Drill Type:	ROTARY
Test Type:	Not Reported	Well Use:	DOMESTIC
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	0	Draw Down:	0
Test Duration:	0	Surface Water Level:	42
Date Measured:	2002 829	Casing Height:	0

Screen Length:	0	Total Depth:	142
Completion Date:	2002 829	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

P51
NW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000053756**

Database:	Water Well Database	Well Log #:	661321
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	10	Draw Down:	0
Test Duration:	1	Surface Water Level:	16
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	174
Completion Date:	19861224	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

N52
NNW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000051377**

Database:	Water Well Database	Well Log #:	488591
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	20	Draw Down:	0
Test Duration:	4	Surface Water Level:	40
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	209
Completion Date:	19751119	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	895	Well Drilled By:	Not Reported

P53
NW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000256602**

Database:	Water Well Database	Well Log #:	956180
Well Type:	Water Well	Drill Type:	ROTARY
Test Type:	Pumping	Well Use:	DOMESTIC

Aquifer Type:	LIMESTONE	Permit #:	2002-270
Test Rate:	50	Draw Down:	20
Test Duration:	1	Surface Water Level:	35
Date Measured:	2003 115	Casing Height:	0
Screen Length:	0	Total Depth:	142
Completion Date:	2003 115	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

P54
NW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000051627**

Database:	Water Well Database	Well Log #:	219084
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	GRAVEL	Permit #:	Not Reported
Test Rate:	0	Draw Down:	18
Test Duration:	0	Surface Water Level:	7
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	50
Completion Date:	1959 611	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	932	Well Drilled By:	Not Reported

P55
NW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000051628**

Database:	Water Well Database	Well Log #:	431493
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	GRAVEL	Permit #:	Not Reported
Test Rate:	6	Draw Down:	17
Test Duration:	0	Surface Water Level:	10
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	35
Completion Date:	19751023	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	929	Well Drilled By:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

P56
NW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000051626**

Database:	Water Well Database	Well Log #:	234405
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	GRAVEL	Permit #:	Not Reported
Test Rate:	0	Draw Down:	28
Test Duration:	0	Surface Water Level:	20
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	185
Completion Date:	1959 6 5	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	919	Well Drilled By:	Not Reported

P57
NW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000051624**

Database:	Water Well Database	Well Log #:	668858
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	35	Draw Down:	25
Test Duration:	1	Surface Water Level:	8
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	122
Completion Date:	1987 530	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	931	Well Drilled By:	Not Reported

P58
NW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000051625**

Database:	Water Well Database	Well Log #:	234460
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	GRAVEL	Permit #:	Not Reported
Test Rate:	0	Draw Down:	85
Test Duration:	0	Surface Water Level:	12
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	193
Completion Date:	1959 919	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported

Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	927	Well Drilled By:	Not Reported

P59
NW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000051629**

Database:	Water Well Database	Well Log #:	456883
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	ROCK	Permit #:	Not Reported
Test Rate:	10	Draw Down:	0
Test Duration:	3	Surface Water Level:	40
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	102
Completion Date:	1974 830	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	899	Well Drilled By:	Not Reported

P60
NW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000332718**

Database:	Water Well Database	Well Log #:	431500
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	8	Draw Down:	42
Test Duration:	0	Surface Water Level:	16
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	108
Completion Date:	19751015	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

P61
NW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000443765**

Database:	Water Well Database	Well Log #:	212950
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	SAND AND GRAVEL	Permit #:	Not Reported
Test Rate:	10	Draw Down:	148
Test Duration:	2	Surface Water Level:	15
Date Measured:	0	Casing Height:	0

Screen Length:	0	Total Depth:	163
Completion Date:	1961 717	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	924	Well Drilled By:	Not Reported

P62
NW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000332275**

Database:	Water Well Database	Well Log #:	158255
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	10	Draw Down:	0
Test Duration:	2	Surface Water Level:	25
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	120
Completion Date:	1955 6 9	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	914	Well Drilled By:	Not Reported

P63
NW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000051630**

Database:	Water Well Database	Well Log #:	465082
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	GRAVEL	Permit #:	Not Reported
Test Rate:	20	Draw Down:	20
Test Duration:	1	Surface Water Level:	14
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	132
Completion Date:	1974 4 1	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	925	Well Drilled By:	Not Reported

P64
NW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000325317**

Database:	Water Well Database	Well Log #:	431491
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported

Aquifer Type:	GRAVEL	Permit #:	Not Reported
Test Rate:	8	Draw Down:	0
Test Duration:	0	Surface Water Level:	14
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	33
Completion Date:	19751015	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	925	Well Drilled By:	Not Reported

65
ENE **OH WELLS** **OHD800000050304**
1/2 - 1 Mile
Lower

Database:	Water Well Database	Well Log #:	398528
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	15	Draw Down:	10
Test Duration:	0	Surface Water Level:	26
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	104
Completion Date:	197012 7	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	904	Well Drilled By:	Not Reported

P66
NW **OH WELLS** **OHD800000405461**
1/2 - 1 Mile
Lower

Database:	Water Well Database	Well Log #:	2044974
Well Type:	Water Well	Drill Type:	ROTARY
Test Type:	Pumping	Well Use:	DOMESTIC
Aquifer Type:	LIMESTONE	Permit #:	2013-45
Test Rate:	10	Draw Down:	70
Test Duration:	1	Surface Water Level:	40
Date Measured:	20131011	Casing Height:	1
Screen Length:	0	Total Depth:	142
Completion Date:	20131011	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	SUBMERSIBLE
Pump Capacity:	10	Pump Installed By:	BAPST INC
Water Level Elevation:	0	Well Drilled By:	Not Reported

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

67
SSW
1/2 - 1 Mile
Higher

OH WELLS **OHD800000050299**

Database:	Water Well Database	Well Log #:	599812
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	12	Draw Down:	8
Test Duration:	2	Surface Water Level:	32
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	142
Completion Date:	19811230	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	908	Well Drilled By:	Not Reported

Q68
NNW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000056320**

Database:	Water Well Database	Well Log #:	467624
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	GRAVEL	Permit #:	Not Reported
Test Rate:	20	Draw Down:	0
Test Duration:	1	Surface Water Level:	30
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	72
Completion Date:	1974 620	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	905	Well Drilled By:	Not Reported

Q69
NNW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000054700**

Database:	Water Well Database	Well Log #:	752887
Well Type:	Water Well	Drill Type:	CABLE TOOL
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	SAND AND GRAVEL	Permit #:	Not Reported
Test Rate:	18	Draw Down:	0
Test Duration:	24	Surface Water Level:	28
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	216
Completion Date:	1992 228	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported

Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

R70
NNW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000374704**

Database:	Water Well Database	Well Log #:	2025131
Well Type:	Water Well	Drill Type:	ROTARY
Test Type:	Air	Well Use:	DOMESTIC
Aquifer Type:	LIMESTONE	Permit #:	2009-102
Test Rate:	15	Draw Down:	25
Test Duration:	1	Surface Water Level:	46
Date Measured:	20091123	Casing Height:	1
Screen Length:	0	Total Depth:	219
Completion Date:	20091123	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	SUBMERSIBLE
Pump Capacity:	10	Pump Installed By:	YUTZY BROTHERS
Water Level Elevation:	0	Well Drilled By:	Not Reported

P71
NW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000054420**

Database:	Water Well Database	Well Log #:	631295
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	10	Draw Down:	0
Test Duration:	1	Surface Water Level:	18
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	165
Completion Date:	19851025	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	921	Well Drilled By:	Not Reported

Q72
NNW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000056319**

Database:	Water Well Database	Well Log #:	467622
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	GRAVEL	Permit #:	Not Reported
Test Rate:	25	Draw Down:	0
Test Duration:	1	Surface Water Level:	30
Date Measured:	0	Casing Height:	0

Screen Length:	0	Total Depth:	70
Completion Date:	1974 618	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	903	Well Drilled By:	Not Reported

S73
North
1/2 - 1 Mile
Higher

OH WELLS **OHD800000056768**

Database:	Water Well Database	Well Log #:	686183
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	10	Draw Down:	0
Test Duration:	0	Surface Water Level:	30
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	157
Completion Date:	1988 721	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

74
NE
1/2 - 1 Mile
Lower

OH WELLS **OHD800000051794**

Database:	Water Well Database	Well Log #:	409316
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	SAND AND GRAVEL	Permit #:	Not Reported
Test Rate:	17	Draw Down:	5
Test Duration:	4	Surface Water Level:	17
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	90
Completion Date:	1971 5 3	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	913	Well Drilled By:	Not Reported

T75
ENE
1/2 - 1 Mile
Lower

OH WELLS **OHD800000254216**

Database:	Water Well Database	Well Log #:	948171
Well Type:	Water Well	Drill Type:	ROTARY
Test Type:	Air	Well Use:	DOMESTIC

Aquifer Type:	LIMESTONE	Permit #:	2002123
Test Rate:	20	Draw Down:	30
Test Duration:	1	Surface Water Level:	38
Date Measured:	2002 8 2	Casing Height:	0
Screen Length:	0	Total Depth:	140
Completion Date:	2002 8 2	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

S76
North
1/2 - 1 Mile
Higher

OH WELLS **OHD800000332276**

Database:	Water Well Database	Well Log #:	398523
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	15	Draw Down:	3
Test Duration:	7	Surface Water Level:	34
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	155
Completion Date:	1970 9 3	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	908	Well Drilled By:	Not Reported

77
WNW
1/2 - 1 Mile
Higher

OH WELLS **OHD800000287655**

Database:	Water Well Database	Well Log #:	982433
Well Type:	Water Well	Drill Type:	ROTARY
Test Type:	Air	Well Use:	DOMESTIC
Aquifer Type:	Not Reported	Permit #:	200521
Test Rate:	40	Draw Down:	6
Test Duration:	1	Surface Water Level:	14
Date Measured:	2005 311	Casing Height:	1
Screen Length:	5	Total Depth:	71
Completion Date:	2005 311	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database | EDR ID Number

R78
NNW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000051376**

Database:	Water Well Database	Well Log #:	163916
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	GRAVEL	Permit #:	Not Reported
Test Rate:	10	Draw Down:	17
Test Duration:	2	Surface Water Level:	22
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	63
Completion Date:	1956 928	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	914	Well Drilled By:	Not Reported

R79
NNW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000326841**

Database:	Water Well Database	Well Log #:	153928
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	GRAVEL	Permit #:	Not Reported
Test Rate:	15	Draw Down:	0
Test Duration:	24	Surface Water Level:	20
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	155
Completion Date:	1957 1 5	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	916	Well Drilled By:	Not Reported

U80
NW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000054419**

Database:	Water Well Database	Well Log #:	495421
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	SAND AND GRAVEL	Permit #:	Not Reported
Test Rate:	12	Draw Down:	10
Test Duration:	0	Surface Water Level:	16
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	106
Completion Date:	1976 624	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported

Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	920	Well Drilled By:	Not Reported

R81
NNW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000056324**

Database:	Water Well Database	Well Log #:	431891
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	20	Draw Down:	0
Test Duration:	1	Surface Water Level:	18
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	235
Completion Date:	1972 5 2	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	913	Well Drilled By:	Not Reported

T82
ENE
1/2 - 1 Mile
Lower

OH WELLS **OHD800000050305**

Database:	Water Well Database	Well Log #:	605356
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	15	Draw Down:	0
Test Duration:	1	Surface Water Level:	40
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	140
Completion Date:	1981 814	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	886	Well Drilled By:	Not Reported

U83
NNW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000053755**

Database:	Water Well Database	Well Log #:	678869
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	20	Draw Down:	0
Test Duration:	0	Surface Water Level:	18
Date Measured:	0	Casing Height:	0

Screen Length:	0	Total Depth:	192
Completion Date:	1988 316	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

V84
North
1/2 - 1 Mile
Higher

OH WELLS **OHD800000056769**

Database:	Water Well Database	Well Log #:	663792
Well Type:	Water Well	Drill Type:	CABLE TOOL
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	SAND AND GRAVEL	Permit #:	Not Reported
Test Rate:	10	Draw Down:	2
Test Duration:	2	Surface Water Level:	35
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	58
Completion Date:	19881019	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

V85
NNW
1/2 - 1 Mile
Higher

OH WELLS **OHD800000264669**

Database:	Water Well Database	Well Log #:	950846
Well Type:	Water Well	Drill Type:	ROTARY
Test Type:	Air	Well Use:	DOMESTIC
Aquifer Type:	GRAVEL AND CLAY	Permit #:	2002259
Test Rate:	50	Draw Down:	49
Test Duration:	1	Surface Water Level:	31
Date Measured:	2003 2 3	Casing Height:	1
Screen Length:	0	Total Depth:	197
Completion Date:	2003 2 4	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

R86
NNW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000261791**

Database:	Water Well Database	Well Log #:	939923
Well Type:	Water Well	Drill Type:	ROTARY
Test Type:	Air	Well Use:	DOMESTIC

Aquifer Type:	GRAVEL AND CLAY	Permit #:	2002202
Test Rate:	40	Draw Down:	62
Test Duration:	1	Surface Water Level:	38
Date Measured:	2002 920	Casing Height:	1
Screen Length:	9	Total Depth:	194
Completion Date:	2002 922	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

87
SSW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000282464**

Database:	Water Well Database	Well Log #:	959404
Well Type:	Water Well	Drill Type:	ROTARY
Test Type:	Pumping	Well Use:	AGRIC/IRRIG
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	115	Draw Down:	62.3
Test Duration:	1	Surface Water Level:	24
Date Measured:	200311 3	Casing Height:	2
Screen Length:	0	Total Depth:	260
Completion Date:	2003 813	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

W88
ENE
1/2 - 1 Mile
Lower

OH WELLS **OHD800000050306**

Database:	Water Well Database	Well Log #:	564069
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	15	Draw Down:	30
Test Duration:	0	Surface Water Level:	27
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	120
Completion Date:	19791219	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	902	Well Drilled By:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database | EDR ID Number

U89
NW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000332269**

Database:	Water Well Database	Well Log #:	465083
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	SAND AND GRAVEL	Permit #:	Not Reported
Test Rate:	10	Draw Down:	40
Test Duration:	2	Surface Water Level:	12
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	138
Completion Date:	1974 412	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	923	Well Drilled By:	Not Reported

X90
NW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000054418**

Database:	Water Well Database	Well Log #:	476690
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	24	Draw Down:	4
Test Duration:	51	Surface Water Level:	10
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	105
Completion Date:	1975 3 3	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	929	Well Drilled By:	Not Reported

W91
ENE
1/2 - 1 Mile
Lower

OH WELLS **OHD800000318454**

Database:	Water Well Database	Well Log #:	599243
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	20	Draw Down:	0
Test Duration:	1	Surface Water Level:	20
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	120
Completion Date:	1981 723	Depth to Bedrock:	37
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported

Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	908	Well Drilled By:	Not Reported

Y92
NW
1/2 - 1 Mile
Higher

OH WELLS **OHD800000054417**

Database:	Water Well Database	Well Log #:	322504
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	SAND AND GRAVEL	Permit #:	Not Reported
Test Rate:	15	Draw Down:	0
Test Duration:	0	Surface Water Level:	19
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	37
Completion Date:	19641026	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	929	Well Drilled By:	Not Reported

93
ENE
1/2 - 1 Mile
Lower

OH WELLS **OHD800000331428**

Database:	Water Well Database	Well Log #:	605384
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	20	Draw Down:	0
Test Duration:	1	Surface Water Level:	30
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	159
Completion Date:	19811022	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	900	Well Drilled By:	Not Reported

X94
NW
1/2 - 1 Mile
Lower

OH WELLS **OHD800000196284**

Database:	Water Well Database	Well Log #:	854922
Well Type:	Water Well	Drill Type:	ROTARY
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	300	Draw Down:	0
Test Duration:	1	Surface Water Level:	30
Date Measured:	0	Casing Height:	0

Screen Length:	0	Total Depth:	122
Completion Date:	1997 423	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

Z95
North **OH WELLS** **OHD800000309319**
1/2 - 1 Mile
Higher

Database:	Water Well Database	Well Log #:	2002425
Well Type:	Water Well	Drill Type:	ROTARY
Test Type:	Pumping	Well Use:	AGRIC/IRRIG
Aquifer Type:	SAND AND GRAVEL	Permit #:	Not Reported
Test Rate:	45	Draw Down:	1.8
Test Duration:	1	Surface Water Level:	30.7
Date Measured:	2006 411	Casing Height:	1.5
Screen Length:	6	Total Depth:	231
Completion Date:	2006 411	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	5	Screen Type:	CONTINOUS WIRE WOUND
Screen Material:	STAINLESS STEEL	Pump Type:	SUBMERSIBLE
Pump Capacity:	40	Pump Installed By:	BEINHOWER BROS.
Water Level Elevation:	0	Well Drilled By:	Not Reported

Y96
NW **OH WELLS** **OHD800000054415**
1/2 - 1 Mile
Higher

Database:	Water Well Database	Well Log #:	502793
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	10	Draw Down:	0
Test Duration:	1	Surface Water Level:	0
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	160
Completion Date:	1977 8 8	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

Y97
NW **OH WELLS** **OHD800000054416**
1/2 - 1 Mile
Higher

Database:	Water Well Database	Well Log #:	630457
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported

Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	15	Draw Down:	35
Test Duration:	1	Surface Water Level:	20
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	155
Completion Date:	1985 823	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	930	Well Drilled By:	Not Reported

AA98
NNW
1/2 - 1 Mile
Higher

OH WELLS **OHD800000054705**

Database:	Water Well Database	Well Log #:	669752
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	10	Draw Down:	0
Test Duration:	1	Surface Water Level:	24
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	122
Completion Date:	1987 717	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

AB99
NW
1/2 - 1 Mile
Higher

OH WELLS **OHD800000412981**

Database:	Water Well Database	Well Log #:	528331
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	GRAVEL	Permit #:	Not Reported
Test Rate:	7	Draw Down:	0
Test Duration:	1	Surface Water Level:	42
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	63
Completion Date:	1978 620	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	905	Well Drilled By:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

Z100
North
1/2 - 1 Mile
Higher

OH WELLS **OHD800000054456**

Database:	Water Well Database	Well Log #:	176310
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	ROCK	Permit #:	Not Reported
Test Rate:	15	Draw Down:	12
Test Duration:	0	Surface Water Level:	28
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	220
Completion Date:	1957 221	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	912	Well Drilled By:	Not Reported

Z101
North
1/2 - 1 Mile
Higher

OH WELLS **OHD800000339511**

Database:	Water Well Database	Well Log #:	137096
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	15	Draw Down:	4
Test Duration:	2	Surface Water Level:	26
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	165
Completion Date:	19551027	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	914	Well Drilled By:	Not Reported

AC102
ENE
1/2 - 1 Mile
Lower

OH WELLS **OHD800000053362**

Database:	Water Well Database	Well Log #:	632803
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	10	Draw Down:	0
Test Duration:	1	Surface Water Level:	24
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	152
Completion Date:	19851114	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported

Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	903	Well Drilled By:	Not Reported

AB103
NW
1/2 - 1 Mile
Higher

OH WELLS **OHD800000054414**

Database:	Water Well Database	Well Log #:	564932
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	SAND AND GRAVEL	Permit #:	Not Reported
Test Rate:	10	Draw Down:	0
Test Duration:	1	Surface Water Level:	20
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	72
Completion Date:	1980 521	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	924	Well Drilled By:	Not Reported

104
ENE
1/2 - 1 Mile
Lower

OH WELLS **OHD800000050307**

Database:	Water Well Database	Well Log #:	312142
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	0	Draw Down:	0
Test Duration:	0	Surface Water Level:	36
Date Measured:	0	Casing Height:	0
Screen Length:	0	Total Depth:	66
Completion Date:	1966 614	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	888	Well Drilled By:	Not Reported

AB105
NW
1/2 - 1 Mile
Higher

OH WELLS **OHD800000054413**

Database:	Water Well Database	Well Log #:	645623
Well Type:	Water Well	Drill Type:	Not Reported
Test Type:	Not Reported	Well Use:	Not Reported
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	20	Draw Down:	0
Test Duration:	1	Surface Water Level:	18
Date Measured:	0	Casing Height:	0

Screen Length:	0	Total Depth:	121
Completion Date:	1984 628	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	926	Well Drilled By:	Not Reported

AA106
NNW
1/2 - 1 Mile
Higher

OH WELLS **OHD800000304227**

Database:	Water Well Database	Well Log #:	989723
Well Type:	Water Well	Drill Type:	ROTARY
Test Type:	Pumping	Well Use:	Not Reported
Aquifer Type:	Not Reported	Permit #:	Not Reported
Test Rate:	20	Draw Down:	2
Test Duration:	2	Surface Water Level:	39
Date Measured:	2005 8 9	Casing Height:	2
Screen Length:	0	Total Depth:	240
Completion Date:	2005 719	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	Not Reported
Pump Capacity:	0	Pump Installed By:	Not Reported
Water Level Elevation:	0	Well Drilled By:	Not Reported

AC107
ENE
1/2 - 1 Mile
Lower

OH WELLS **OHD800000301594**

Database:	Water Well Database	Well Log #:	2001090
Well Type:	Water Well	Drill Type:	ROTARY
Test Type:	Pumping	Well Use:	AGRIC/IRRIG
Aquifer Type:	LIMESTONE	Permit #:	Not Reported
Test Rate:	50	Draw Down:	20
Test Duration:	1.5	Surface Water Level:	23
Date Measured:	2006 131	Casing Height:	1.5
Screen Length:	0	Total Depth:	220
Completion Date:	2006 131	Depth to Bedrock:	0
Drill Year:	Not Reported	Well Seal Rpt #:	0
Screen Diameter:	0	Screen Type:	Not Reported
Screen Material:	Not Reported	Pump Type:	SUBMERSIBLE
Pump Capacity:	35	Pump Installed By:	BEINHOWER BROS.
Water Level Elevation:	0	Well Drilled By:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: OH Radon

Radon Test Results

Zipcode	Num Tests	Maximum	Minimum	Arith Mean	Geo Mean
43026	1076	117.6	0	9.04	5.41

Federal EPA Radon Zone for FRANKLIN County: 1

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 43026

Number of sites tested: 4

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	2.500 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	6.425 pCi/L	25%	75%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Public Water System Data
Source: Ohio Environmental Protection Agency
Telephone: 614-644-2752
The database includes community, transient noncommunity and noncommunity water wells; and source treatment unit locations.

Water Treatment Facilities
Source: Ohio Environmental Protection Agency
Telephone: 614-644-2752

Monitoring Water Wells Listing
Source: Department of Natural Resources
Telephone: 614-265-6740

Water Well Database
Source: Department of Natural Resources
Telephone: 614-265-6740

OTHER STATE DATABASE INFORMATION

Oil and Gas Wells Listing
Department of Natural Resources
A listing of oil and gas well locations in the state.

RADON

State Database: OH Radon
Source: Department of Health
Telephone: 614-644-2727
Radon Statistics for Zip Code Areas

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

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Appendix III– Tax Record Information and Historical Research Documentation

Owner Name	HILLIARD CITY SCHOOL DISTRCT	Prop. Class	E - Exempt
		Land Use	650 - EXEMPT PROPERTY OWNE
Site Address	4617 LEPPERT RD	Tax District	050 - CITY OF HILLIARD
		Sch. District	2510 - HILLIARD CSD
		App Nbrhd	00301
LegalDescriptions	LEPPERT RD ENTRY 6366 20.0153 ACRES	CAUV	N
		Owner Occ Cred.	N
Mailing Address	5323 CEMETARY RD HILLIARD OH 43026	Annual Taxes	.00
		Taxes Paid	.00
Tax Bill Mailing	HILLIARD CITY SCHOOLS 2140 ATLAS ST COLUMBUS OH 43228-9647	Board of Revision	No
		CDQ	

	Current Market Value			Taxable Value		
	Land	Improv	Total	Land	Improv	Total
BASE	$0	$0	$0	$0	$0	$0
TIF	$0	$0	$0	$0	$0	$0
Exempt	$180,100	$0	$180,100	$63,040	$0	$63,040
Total	$180,100	$0	$180,100	$63,040	$0	$63,040
CAUV	$0					

Sales

Date	Grantor	Convey No.	Convey Typ	# Parcels	Sales Price
11/01/2016	HILLIARD CITY SCHOOL DISTRCT	90012086	QE	2	0
05/13/2015	HILLIARD CITY SCHOOL DISTRCT	90011242	QE	3	0
03/21/2014	HILLIARD CITY SCHOOL	(050)3-M	AC	1	0
09/25/2003	HILLIARD CITY SCHOOL	(050)24-M	CB	1	0
08/04/2003	HILLIARD CITY SCHOOL	910243-A	GE	4	0
01/09/1957	GRENER KERMIT C &			0	0

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Land

Lot Type	Act Front	Eff Front	Eff Depth	Acres
A5-ACREAGE				20.02

Site Characteristics

Property Status	Vacant	Exccess Frontage	No
Neighborhood	00301	Alley	No
Elevation	Street Level	Sidewalk	No
Terrain	Flat	Corner Lot	No
Street/Road	Paved	Wooded Lot	No
Traffic	Normal	Water Front	No
Irregular Shape	No	View	No

Building Data

Use Code	-	Rooms		Level 1
Style		Dining Rms		Level 2
Exterior Wall Typ	-	Bedrms		Level 3+
Year Built		Family Rms		Attic
Year Remodeled		Full Baths		Fin. Area Above Grd
Effective Year		Half Baths		Fin. Area Below Grd
Stories		Basement		Fin. Area
Condition		Unfin Area Sq Ft		
Attic		Rec Room Sq Ft		
Heat/AC				
Fixtures				
Wood Fire	0 / 0			
Garage Spaces				

Improvements

Type	Year Blt	Eff Year Blt	Condition	Size	Area

Permits

Date	Est. Cost	Description
12/06/2017	$	POSS NEW DWLG
03/14/2017	$	09/09/2016 $ 0 A6C0152A GENERAL BUILDING TRADE, GENERAL BUILDING TRADE
09/09/2016	$	0 A6C0152A GENERAL BUILDING TRADE, GENERAL BUILDING TRADE
12/07/2015	$	0 ALTERATION / CLMB018 PCSLT REPLACING 12 PANEL ANTENNAS WI
03/12/2014	$	03/23/2010 $ 17,000 CELL TOWER

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050-009807 04/14/2017

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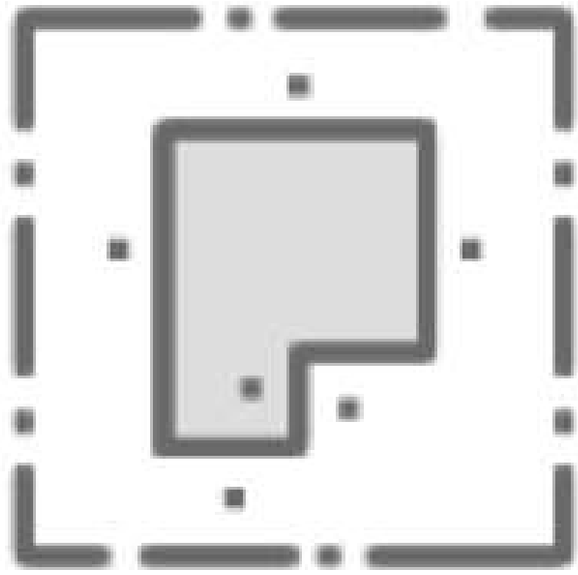

Sorry, no sketch available for this record

Sketch Legend

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Tax Status

Property Class	E - Exempt
Land Use	650 - EXEMPT PROPERTY OWNED E
Tax District	050 - CITY OF HILLIARD
Net Annual Tax	.00
Taxes Paid	.00
CDQ Year	

Current Year Tax Rates

Full Rate	140.29
Reduction Factor	0.269134
Effective Rate	02.533325
Non Business Rate	0.094574
Owner Occ. Rate	0.023643

	Current Market Value			Taxable Value		
	Land	Improv	Total	Land	Improv	Total
BASE	$0	$0	$0	$0	$0	$0
TIF	$0	$0	$0	$0	$0	$0
Exempt	$180,100	$0	$180,100	$63,040	$0	$63,040
Total	$180,100	$0	$180,100	$63,040	$0	$63,040
CAUV	$0					

Tax Year Detail

	Annual	Adjustment	Payment	Total
Original Tax	0.00	0.00		
Reduction	0.00	0.00		
Adjusted Tax	0.00	0.00		
Non-Business Credit	0.00	0.00		
Owner Occupancy Credit	0.00	0.00		
Homestead Credit	0.00	0.00		
Net Annual	0.00	0.00	0.00	0.00
Prior	0.00	0.00	0.00	0.00
Penalty	0.00	0.00	0.00	0.00
Interest	0.00	0.00	0.00	0.00
SA	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00
1st Half	0.00	0.00	0.00	0.00
2nd Half	0.00	0.00	0.00	0.00
Future				

Special Assessment (SA) Detail

Annual	Adjustment	Payment	Total

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Payment History

Date	Tax Year	Bill Type	Amount
01/20/2016	2015	Tax	$ 11,421.06

Tax Distribution

County	
General Fund	$
Children's Services	$
Alcohol, Drug, & Mental Health	$
FCBDD	$
Metro Parks	$
Columbus Zoo	$
Senior Options	$
School District	$
School District (TIF)	$
Township	$
Township (TIF)	$
Park District	$
Vocational School	$
City / Village	$
City / Village (TIF)	$
Library	$

BOR Case Status

Rental Contact

Owner / Contact Name
Business Name
Title
Contact Address1
Contact Address2
City
Zip Code
Phone Number

Last Updated

CAUV Status

CAUV Status	No
CAUV Application Received	No

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Owner Name	CITY OF HILLIARD OHIO	Prop. Class	E - Exempt
		Land Use	640 - EXEMPT PROPERTY OWNE
Site Address	COSGRAY RD	Tax District	050 - CITY OF HILLIARD
		Sch. District	2510 - HILLIARD CSD
		App Nbrhd	X0301
LegalDescriptions	COSGRAY RD ENTRY 6366 49.751 ACRES	CAUV Owner Occ Cred.	N N
Mailing Address	3800 MUNICIPAL WAY HILLIARD OH 43026	Annual Taxes Taxes Paid	.00 16,518.94
Tax Bill Mailing	CITY OF HILLIARD OHIO 3800 MUNICIPAL WAY HILLIARD OH 43026-1696	Board of Revision CDQ	No

	Current Market Value			Taxable Value		
	Land	Improv	Total	Land	Improv	Total
BASE	$0	$0	$0	$0	$0	$0
TIF	$0	$0	$0	$0	$0	$0
Exempt	$3,020,600	$110,000	$3,130,600	$1,057,210	$38,500	$1,095,710
Total	$3,020,600	$110,000	$3,130,600	$1,057,210	$38,500	$1,095,710
CAUV	$0					

Sales

Date	Grantor	Convey No.	Convey Typ	# Parcels	Sales Price
11/14/2016	CITY OF HILLIARD OHIO	00024402	QC	2	292,500
03/23/2016	CITY OF HILLIARD OHIO	(050) 9	CB	1	0
05/13/2015	CITY OF HILLIARD OHIO	90011242	QE	3	0
09/12/2003	HILLIARD CITY SCHOOL	912011-A	GE	1	0
08/26/1985	ADAMCAK CHRISTINE B &			1	50,000
11/01/1984				1	0

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Land

Lot Type	Act Front	Eff Front	Eff Depth	Acres
A1-ACREAGE				8.00
A4-ACREAGE				40.34
A0-ACREAGE				1.41

Site Characteristics

Property Status	Developed	Exccess Frontage	No
Neighborhood	X0301	Alley	No
Elevation	Street Level	Sidewalk	No
Terrain	Flat	Corner Lot	No
Street/Road	Paved	Wooded Lot	No
Traffic	Normal	Water Front	No
Irregular Shape	No	View	No

Building Data

Use Code	-	Rooms		Level 1
Style		Dining Rms		Level 2
Exterior Wall Typ	-	Bedrms		Level 3+
Year Built		Family Rms		Attic
Year Remodeled		Full Baths		Fin. Area Above Grd
Effective Year		Half Baths		Fin. Area Below Grd
Stories		Basement		Fin. Area
Condition		Unfin Area Sq Ft		
Attic		Rec Room Sq Ft		
Heat/AC				
Fixtures				
Wood Fire	0 / 0			
Garage Spaces				

Improvements

Type	Year Blt	Eff Year Blt	Condition	Size	Area
PA1 - PAVING ASPHALT	2016		AVERAGE	X	104,700

Permits

Date	Est. Cost	Description
08/10/2017	$ 320	PLUMBING
01/01/2017	$	FYI - REDUCE ASSESSED ACREAGE ONLY.
05/19/1999	$ 35,000	RM ADDN

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050-011197 04/14/2017

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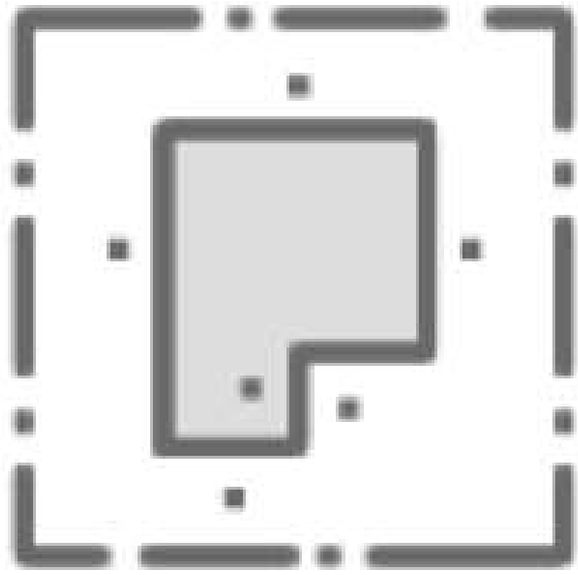

Sorry, no sketch available for this record

Sketch Legend

1 PAVING ASP - PA1:PAVING ASPHALT 104700 Sq. Ft.

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Tax Status

Property Class	E - Exempt
Land Use	640 - EXEMPT PROPERTY OWNED E
Tax District	050 - CITY OF HILLIARD
Net Annual Tax	.00
Taxes Paid	16,518.94
CDQ Year	

Current Year Tax Rates

Full Rate	140.29
Reduction Factor	0.269134
Effective Rate	02.533325
Non Business Rate	0.094574
Owner Occ. Rate	0.023643

	Current Market Value			Taxable Value		
	Land	Improv	Total	Land	Improv	Total
BASE	$0	$0	$0	$0	$0	$0
TIF	$0	$0	$0	$0	$0	$0
Exempt	$3,020,600	$110,000	$3,130,600	$1,057,210	$38,500	$1,095,710
Total	$3,020,600	$110,000	$3,130,600	$1,057,210	$38,500	$1,095,710
CAUV	$0					

Tax Year Detail

	Annual	Adjustment	Payment	Total
Original Tax	153,717.16	-153,717.16		
Reduction	-41,370.38	41,370.38		
Adjusted Tax	112,346.78	-112,346.78		
Non-Business Credit	0.00	0.00		
Owner Occupancy Credit	0.00	0.00		
Homestead Credit	0.00	0.00		
Net Annual	112,346.78	-112,346.78	0.00	0.00
Prior	1,070.99	13,109.98	14,180.97	0.00
Penalty	0.00	2,085.60	2,085.60	0.00
Interest	252.37	0.00	252.37	0.00
SA	0.00	0.00	0.00	0.00
Total	113,670.14	-97,151.20	16,518.94	0.00
1st Half	57,496.75	-40,977.81	16,518.94	0.00
2nd Half	56,173.39	-56,173.39	0.00	0.00
Future				

Special Assessment (SA) Detail

Annual	Adjustment	Payment	Total

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Payment History

Date	Tax Year	Bill Type	Amount
06/11/2018	2017	Tax	$ 13,198.87
05/10/2018	2017	Tax	$ 2,195.53
11/25/2017	2017	Tax	$ 1,124.54
01/24/2017	2016	Tax	$ 1,124.54

Tax Distribution

County	
General Fund	$
Children's Services	$
Alcohol, Drug, & Mental Health	$
FCBDD	$
Metro Parks	$
Columbus Zoo	$
Senior Options	$
School District	$
School District (TIF)	$
Township	$
Township (TIF)	$
Park District	$
Vocational School	$
City / Village	$
City / Village (TIF)	$
Library	$

BOR Case Status

Rental Contact

Owner / Contact Name
Business Name
Title
Contact Address1
Contact Address2
City
Zip Code
Phone Number

Last Updated

CAUV Status

CAUV Status	No
CAUV Application Received	No

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Owner Name	CITY OF HILLIARD OHIO	Prop. Class	E - Exempt
		Land Use	640 - EXEMPT PROPERTY OWNE
Site Address	4617 LEPPERT RD	Tax District	050 - CITY OF HILLIARD
		Sch. District	2510 - HILLIARD CSD
		App Nbrhd	00301
LegalDescriptions	LEPPERT RD ENTRY 6366 47.000 ACRES	CAUV	N
		Owner Occ Cred.	N
Mailing Address	3800 MUNICIPAL WAY HILLIARD OH 43026	Annual Taxes	.00
		Taxes Paid	.00
Tax Bill Mailing	CITY OF HILLIARD FINANCE DEPARTMENT 3800 MUNICIPAL WAY HILLIARD OH 43026-1620	Board of Revision	No
		CDQ	

	Current Market Value			Taxable Value		
	Land	Improv	Total	Land	Improv	Total
BASE	$0	$0	$0	$0	$0	$0
TIF	$0	$0	$0	$0	$0	$0
Exempt	$2,590,700	$0	$2,590,700	$906,750	$0	$906,750
Total	$2,590,700	$0	$2,590,700	$906,750	$0	$906,750
CAUV	$0					

Sales

Date	Grantor	Convey No.	Convey Typ	# Parcels	Sales Price
11/01/2016	CITY OF HILLIARD OHIO	90012086	QE	2	0

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Land

Lot Type	Act Front	Eff Front	Eff Depth	Acres
A4-ACREAGE				46.26
A0-ACREAGE				.74

Site Characteristics

Property Status		Exccess Frontage	No
Neighborhood	00301	Alley	No
Elevation		Sidewalk	No
Terrain		Corner Lot	No
Street/Road		Wooded Lot	No
Traffic		Water Front	No
Irregular Shape	No	View	No

Building Data

Use Code	-	Rooms		Level 1
Style		Dining Rms		Level 2
Exterior Wall Typ	-	Bedrms		Level 3+
Year Built		Family Rms		Attic
Year Remodeled		Full Baths		Fin. Area Above Grd
Effective Year		Half Baths		Fin. Area Below Grd
Stories		Basement		Fin. Area
Condition		Unfin Area Sq Ft		
Attic		Rec Room Sq Ft		
Heat/AC				
Fixtures				
Wood Fire	0 / 0			
Garage Spaces				

Improvements

Type	Year Blt	Eff Year Blt	Condition	Size	Area

Permits

Date	Est. Cost	Description

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050-011455 02/18/2017

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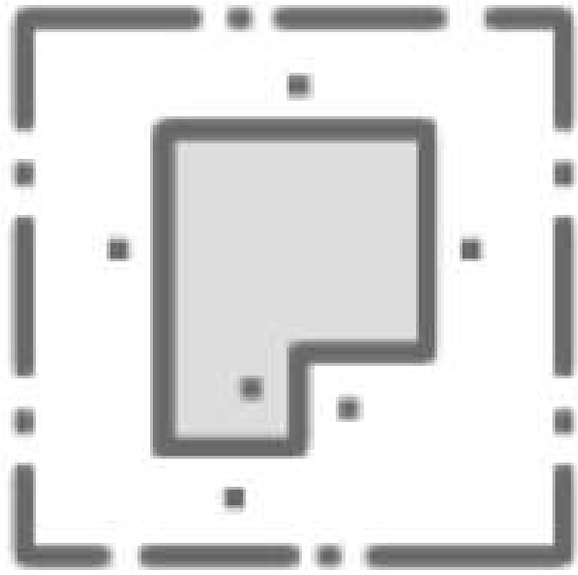

Sorry, no sketch available for this record

Sketch Legend

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Tax Status

Property Class	E - Exempt
Land Use	640 - EXEMPT PROPERTY OWNED E
Tax District	050 - CITY OF HILLIARD
Net Annual Tax	.00
Taxes Paid	.00
CDQ Year	

Current Year Tax Rates

Full Rate	140.29
Reduction Factor	0.269134
Effective Rate	02.533325
Non Business Rate	0.094574
Owner Occ. Rate	0.023643

	Current Market Value			Taxable Value		
	Land	Improv	Total	Land	Improv	Total
BASE	$0	$0	$0	$0	$0	$0
TIF	$0	$0	$0	$0	$0	$0
Exempt	$2,590,700	$0	$2,590,700	$906,750	$0	$906,750
Total	$2,590,700	$0	$2,590,700	$906,750	$0	$906,750
CAUV	$0					

Tax Year Detail

	Annual	Adjustment	Payment	Total
Original Tax	127,207.96	-127,207.96		
Reduction	-45,050.48	45,050.48		
Adjusted Tax	82,157.48	-82,157.48		
Non-Business Credit	-7,714.92	7,714.92		
Owner Occupancy Credit	0.00	0.00		
Homestead Credit	0.00	0.00		
Net Annual	74,442.56	-74,442.56	0.00	0.00
Prior	0.00	0.00	0.00	0.00
Penalty	0.00	0.00	0.00	0.00
Interest	0.00	0.00	0.00	0.00
SA	0.00	0.00	0.00	0.00
Total	74,442.56	-74,442.56	0.00	0.00
1st Half	37,221.28	-37,221.28	0.00	0.00
2nd Half	37,221.28	-37,221.28	0.00	0.00
Future				

Special Assessment (SA) Detail

Annual	Adjustment	Payment	Total

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Payment History

Date	Tax Year	Bill Type	Amount

Tax Distribution

County	
General Fund	$
Children's Services	$
Alcohol, Drug, & Mental Health	$
FCBDD	$
Metro Parks	$
Columbus Zoo	$
Senior Options	$
School District	$
School District (TIF)	$
Township	$
Township (TIF)	$
Park District	$
Vocational School	$
City / Village	$
City / Village (TIF)	$
Library	$

BOR Case Status

Rental Contact

Owner / Contact Name
Business Name
Title
Contact Address1
Contact Address2
City
Zip Code
Phone Number

Last Updated

CAUV Status

CAUV Status	No
CAUV Application Received	No

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Hilliard Multi-Use Sports Complex
Cosgray Road
Hilliard, OH 43026

Inquiry Number: 5473965.3
November 02, 2018

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

11/02/18

Site Name:	Client Name:
Hilliard Multi-Use Sports Comp	S&ME
Cosgray Road	6190 Enterprise Court
Hilliard, OH 43026	Dublin, OH 43017
EDR Inquiry # 5473965.3	Contact: Samuel Staschiak

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by S&ME were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 0BC2-4EB1-8609

PO # 4117-18-011

Project Hilliard Sports Complex

UNMAPPED PROPERTY

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Sanborn® Library search results

Certification #: 0BC2-4EB1-8609

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- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Hilliard Multi-Use Sports Complex
Cosgray Road
Hilliard, OH 43026

Inquiry Number: 5473965.5
November 08, 2018

The EDR-City Directory Image Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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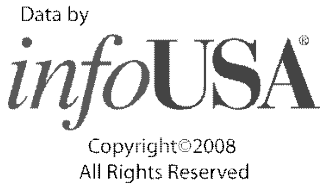


RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	Target Street	Cross Street	Source
2014	☑	☑	EDR Digital Archive
2010	☑	☑	EDR Digital Archive
2005	☑	☑	EDR Digital Archive
2000	☑	☑	EDR Digital Archive
1996	☑	☑	Haines Criss-Cross Directory
1990	☑	☑	Haines Criss-Cross Directory
1985	☑	☑	Haines Criss-Cross Directory
1980	☑	☑	Haines Criss-Cross Directory
1975	☑	☑	Haines Criss-Cross Directory
1970	☑	☑	Haines Criss-Cross Directory
1965	☑	☑	Haines Criss-Cross Directory

FINDINGS

TARGET PROPERTY STREET

Cosgray Road
Hilliard, OH 43026

Year	*CD Image*	*Source*
COSGRAY RD		
2014	pg A1	EDR Digital Archive
2010	pg A4	EDR Digital Archive
2005	pg A6	EDR Digital Archive
2000	pg A8	EDR Digital Archive
1996	pg A10	Haines Criss-Cross Directory
1990	pg A12	Haines Criss-Cross Directory
1985	pg A14	Haines Criss-Cross Directory
1980	pg A16	Haines Criss-Cross Directory
1975	pg A18	Haines Criss-Cross Directory
1970	pg A20	Haines Criss-Cross Directory
1965	pg A22	Haines Criss-Cross Directory

FINDINGS

CROSS STREETS

Year	*CD Image*	*Source*
LEPPERT RD		
2014	pg. A2	EDR Digital Archive
2010	pg. A5	EDR Digital Archive
2005	pg. A7	EDR Digital Archive
2000	pg. A9	EDR Digital Archive
1996	pg. A11	Haines Criss-Cross Directory
1990	pg. A13	Haines Criss-Cross Directory
1985	pg. A15	Haines Criss-Cross Directory
1980	pg. A17	Haines Criss-Cross Directory
1975	pg. A19	Haines Criss-Cross Directory
1970	pg. A21	Haines Criss-Cross Directory
1965	pg. A23	Haines Criss-Cross Directory

City Directory Images

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

COSGRAY RD 2014

4315	HYO OK INC
4323	FOODMART INVESTMENTS OF OHIO
	HILLIARD BAPTIST CHURCH
	KDP INVESTMENTS OF OHIO L
4327	KEMPTON LLC
	MOP
4333	BUCCI PIZZIERA
4337	OVER TIME SPORTS PUB
4411	TIPPLE, RANDALL
4515	YOUNG MENS CHRISTIAN ASSOC
4520	LOVE, RONALD D
4594	GARCIA, ALEJANDRO G
4601	OCCUPANT UNKNOWN,
4675	HOMESTEAD PARK
	KALTENBACH PARK
4678	OCCUPANT UNKNOWN,
4700	CARMAN, JASON
4702	HOFECKER, BENJAMIN D
4752	HERRON, WILLIAM E
4760	BALDRIDGE, VERNA
4766	PANGBORN, COREY
4771	DRAGOO TAX SERVICE
	DRAGOO, STEHEN P
4780	MAY, S L
4787	BECHTEL, MARK S
4790	GHOLSON, DAVID B
4800	KLOPFENSTEIN, DONALD E
4809	THOMPSON, DENNIS S
4816	BUNCE, MATTHEW G
4826	SAMMONS, MELISSA A
4835	DEAN, ANTHONY N
4850	J GEORGE CONSTRUCTION LLC
	SATTERFIELD, DANIEL L
4853	MAYNARD, CHARLES H
4869	MCMEANS, JAMES M
4875	IHRIG, BILL S
4883	PARK, MICH
4895	LIMINGS, LOWELL E
4896	PARSLEY, FRANCES B
4898	JOHNSON, JEFFREY A
4900	ROBINSON, AMANDA K
4902	JOHNSON, JAMES F
4908	JENNINGS, KRIS A
4910	ULREY, MATT
4919	VANGUNDY, ODEAN V
4928	SPENCE, DOUGLAS M
4932	OCCUPANT UNKNOWN,

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

LEPPERT RD 2014

4051	SMITH, STEPHEN R
4061	NAIDU, RAJENDRA M
	RUCHIS LLC
4073	ENNEKING, THOMAS
4079	REHAUT, RICHARD
4091	MCM HOME BUILDERS LLC
	MOLDOVAN, MARC C
4103	RATLIFF, RAY A
4113	SHANNON, DARRYL L
4125	PONNA, SANKARA R
	SAISIVAINFOYS INC
4135	AGARWAL, SURMAN K
4147	SHOOK, RON
4155	HAMBEL, JOHN M
	TOM PATRICKS LLC
4200	HILLIARD CITY SCHOOL DISTRICT
	HILLIARD DARBY ATHC BOOSTERS
4211	KROMALIC, MATTHEW W
4225	BOBEK, NATHAN A
4233	OLNEY, LAWRENCE E
4245	BECKLEY, KENNETH R
4253	CONTI, ANDREW J
4265	CAPKA, KEN A
4275	DUFFY, LAWRENCE J
4283	LEISENHEIMER, CHARLES W
4340	COOPER, STEVE
4341	MORRIS, JOHN J
4349	ROY, DAWN M
4361	FISCHER, MAXWELL M
4370	BURKEY, BRENDA K
4371	OCCUPANT UNKNOWN,
4379	TAYLOR, AARON E
4384	MCCULLOUGH, DAVE L
4389	KASMER, MARK R
4397	NGUYEN, LAN T
4399	CARPENTER, RAMONA M
	NELSON, ARLEY R
4409	BILLAKANTI, DHANALAKSHMI
4418	OCCUPANT UNKNOWN,
4421	HARTLINE, PAT S
4422	LINDSKOG, MICAELA
4430	HUBER, SCOTT S
4431	JELINEK, WILLIAM G
4438	KASLER, ANNA E
4439	WHITAKER, JAMES L
4445	LEPPERT, JOSEPH C
4470	LEPPERT, KIM A
4701	ALL STAR COMMERCIAL SERVICES-C
	FORTIN, PATRICIA A
4710	WALKER, BRANDON

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

LEPPERT RD 2014 (Cont'd)

4777 MOSKALYUK, VIKTOR P

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

COSGRAY RD 2010

4315	HYO OK INC
4327	MOP
4333	BUCCI PIZZIERA
	PIZZA MAN
4337	OVER TIME SPORTS PUB
4515	YOUNG MENS CHRISTIAN ASSOC
4520	LOVE, RONALD D
4594	ALEJANDRO GARCIA
	GARCIA, ALEJANDRO G
4601	SHOEMAKER, LISA
4675	HOMESTEAD PARK
	TOWNSHIP OF WASHINGTON
4678	OCCUPANT UNKNOWN,
4700	CARMAN, JASON
4752	HERRON, WILLIAM E
4760	BALDRIDGE, VERNA
	CHASE HALL & ASSOC INC
	SORRELLO LTD
4766	MCDONALD, WILLIAM T
4771	DRAGOO TAX SERVICE
	DRAGOO, STEHEN N
4780	CONWAY, WILLIAM J
4790	GHOLSON, BRIAN D
4800	KLOPFENSTEIN, DONALD E
4809	OCCUPANT UNKNOWN,
4826	SAMMONS MELISSA MRS
	SAMMONS, MICHAEL E
4835	DEAN, ANTHONY N
4850	DEE S SALON
	GEORGE JEROME D
	GEORGE, JEROME D
	J GEORGE CONSTRUCTION LLC
4853	MAYNARD, CHARLES H
4869	MCMEANS, JAMES M
4875	IHRIG, BILL S
4883	PARKER, TIMOTHY B
4895	LIMINGS, LOWELL E
4896	PARSLEY, FRANCES G
4898	OCCUPANT UNKNOWN,
4900	LEACH, SHAWN D
4902	JOHNSON, JAMES F
4908	JENNINGS, KRIS A
4910	ULREY, MATT
4919	VANGUNDY, ODEAN V
4928	SPENCE, DOUGLAS M

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

LEPPERT RD 2010

4051	SMITH, STEPHEN R
4061	NAIDU, RAJENDRA M
4073	OCCUPANT UNKNOWN,
4079	REHAUT, KRYSTYNA I
4091	MCM HOME BUILDERS LLC
	MOLDOVAN, MARC C
4103	RATLIFF, RAY A
4113	SHANNON, DARRYL L
4125	SAISIVAINFOYS INC
	SANKULA, NAGASREE
4135	AGARWAL, SURMAN K
	CONCRETE MACHINES INC
4147	SHOOK, RONALD A
4155	SEYMOUR, DON F
4200	HILLIARD CITY SCHOOL DISTRICT
	HILLIARD DARBY ATHC BOOSTERS
4211	KROMALIC, MATTHEW W
4225	BOBEK, NATHAN A
4233	OLNEY, LAWRENCE E
4245	BECKLEY, JOHN W
	KR BECKLEY REV
4253	HAMM, AARON
4265	CAPKA, KEN A
4275	WHEELER, MICHELLE A
4283	LEISENHEIMER, CHARLES W
4340	OCCUPANT UNKNOWN,
4341	MORRIS, JOHN J
4349	MOY, THOMAS M
4361	FISCHER, MICHAEL L
4370	BURKEY, BRENDA K
4371	BADGLEY, CHARLES A
4379	SESKES, BRIAN J
4384	MCCULLOUGH, DAVE L
4389	OCCUPANT UNKNOWN,
4397	MUNDEW, MICHAEL A
4399	NELSON, ARLEY R
4409	OCCUPANT UNKNOWN,
4421	HARTLINE, PAT S
4422	OCCUPANT UNKNOWN,
4430	1STCRSCOM
	OCCUPANT UNKNOWN,
4431	JELINEK, WILLIAM G
4438	KASLER, DAVID
4439	WHITAKER, JAMES L
4445	HUGHES, CATHY M
4450	WEETHEE, DOLORES
4470	LEPPERT, RODNEY M
4710	WALKER, CHARLES E
4777	OCCUPANT UNKNOWN,
4815	KRAMER, JAMES J

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

COSGRAY RD 2005

4520	LOVE, RONALD D
4541	YOUNG MENS CHRISTIAN ASSOC
4594	ISHAM, DONALD E
4601	OCCUPANT UNKNOWN,
4678	OCCUPANT UNKNOWN,
4702	KEPLAR, DEBORAH L
4708	REESE, ALICIA C
4752	BALDRIDGE, STEVEN S
4760	BALDRIDGE, CHESTER M
4766	MCDONALD, WILLIAM T
4771	DRAGOO, STEHEN N
4780	MAY, S L
4787	BUSH, SHERRY J
4790	GHOLSON, BRIAN D
4800	KLOPFENSTEIN, DONALD E
4809	GEORGE JEROME D
	GEORGE, JEROME D
4816	GEORGE, JEROME D
4826	OCCUPANT UNKNOWN,
4835	JONES, HARRIET A
4850	PELPHREY, LORNA K
4853	MAYNARD, CHARLES
4869	MCMEANS, KEVIN J
4875	ROSE, THOMAS D
4883	PARKER, TIMOTHY B
4895	LIMINGS, LOWELL E
4896	PARSLEY, FRANCES G
4898	PETTIT, K
4900	LEACH, SHAWN D
4902	OCCUPANT UNKNOWN,
4908	JENNINGS, KRIS A
4910	KIRKMAN, SUE E
4919	MAHR, ROBERT M
4928	SPENCE, DOUGLAS M
4932	ROGERS, VIRGIL A

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

LEPPERT RD 2005

4051	SMITH, STEPHEN R
4061	NAIDU, RAJENDRA M
4073	KETCHAM, RICHARD S
4079	REHAUT, KRYSTYNA I
4091	MOLDOVAN, MARC C
4103	RATLIFF, RAY A
4113	JAMES, LESLIE B
4125	PONNA, SANKARA R
4135	OCCUPANT UNKNOWN,
4147	A MATTER TASTE PRSNL CHEF SERV
	SHOOK, RONALD A
4155	SEYMOUR, DONALD F
4200	HILLIARD CITY SCHOOL DISTRICT
4211	KROMALIC, MATTHEW W
4225	OCCUPANT UNKNOWN,
4233	OLNEY, LAWRENCE E
4245	BECKLEY, JOHN W
	KR BECKLEY REV
4253	OCCUPANT UNKNOWN,
4265	OCCUPANT UNKNOWN,
4275	OCCUPANT UNKNOWN,
4283	LEISENHEIMER, CHARLES W
4340	SHUSTER, JOSEPH J
4341	MORRIS, JOHN J
4349	MOY, THOMAS M
4361	FISCHER, MAXWELL M
4371	BADGLEY, CHARLES A
4379	OCCUPANT UNKNOWN,
4384	MCCULLOUGH, DAVE L
4389	OCCUPANT UNKNOWN,
4397	MUNDEW, MICHAEL A
4399	NELSON, ARLEY R
4409	BAYLOR, BRADFORD S
4421	HARTLINE, PATRICK S
4430	DOCKERY, SEAN
4431	JELINEK, WILLIAM G
4438	KASLER, ANNA E
4439	WHITAKER, JAMES L
4445	HUGHES, CATHY M
4450	WEETHEE, DOLORES
4470	LEPPERT, RODNEY M
4701	FERGUSON, DAVID K
4710	WALKER, PHYLLIS P
4777	CROW, FREDERICK M
4810	OCCUPANT UNKNOWN,
4815	KRAMER, JAMES J
4825	RUSSELL, CARL S

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

COSGRAY RD 2000

4301	JOHNSON, JOYCE K
4411	HERNANDEZ, OSCAR
4513	HAUTAMAKI, JOSEPH
4601	RAMEY, HOWARD
4752	BALDRIDGE, STEVEN
4760	BALDRIDGE, CHESTER M
4771	DRAGOO, STEPHEN N
4800	KLOPFENSTEIN, D E
4816	ELSBERRY, KARA M
4853	MAYNARD, CHARLES
4869	MCMEANS, JAMES M
4883	ZARSE, M I
4900	LEACH, SHAWN
4902	JOHNSON, JAMES E
4919	VANGUNDY, O
5037	RINGS, D M
5038	RINGS, DONALD
5083	BURGEY, VAUGHN M
5119	NGUYEN, VAN L
5141	NORMAN, L E
5175	BUCK, STEVEN A
5184	PALM, NICOLE
5195	BADURINA, JOHN
5274	MILLER, FLOYD
5301	ERDMAN, LINDA
5325	SHAW, ROBERT W
5332	FISHER, JEFFREY R
5345	SCHNUG, W R
5428	MEADE, JOHNNY E
5449	MILLER, CONNIE
5518	WILCOX, RONALD G
5570	JENKINS, G

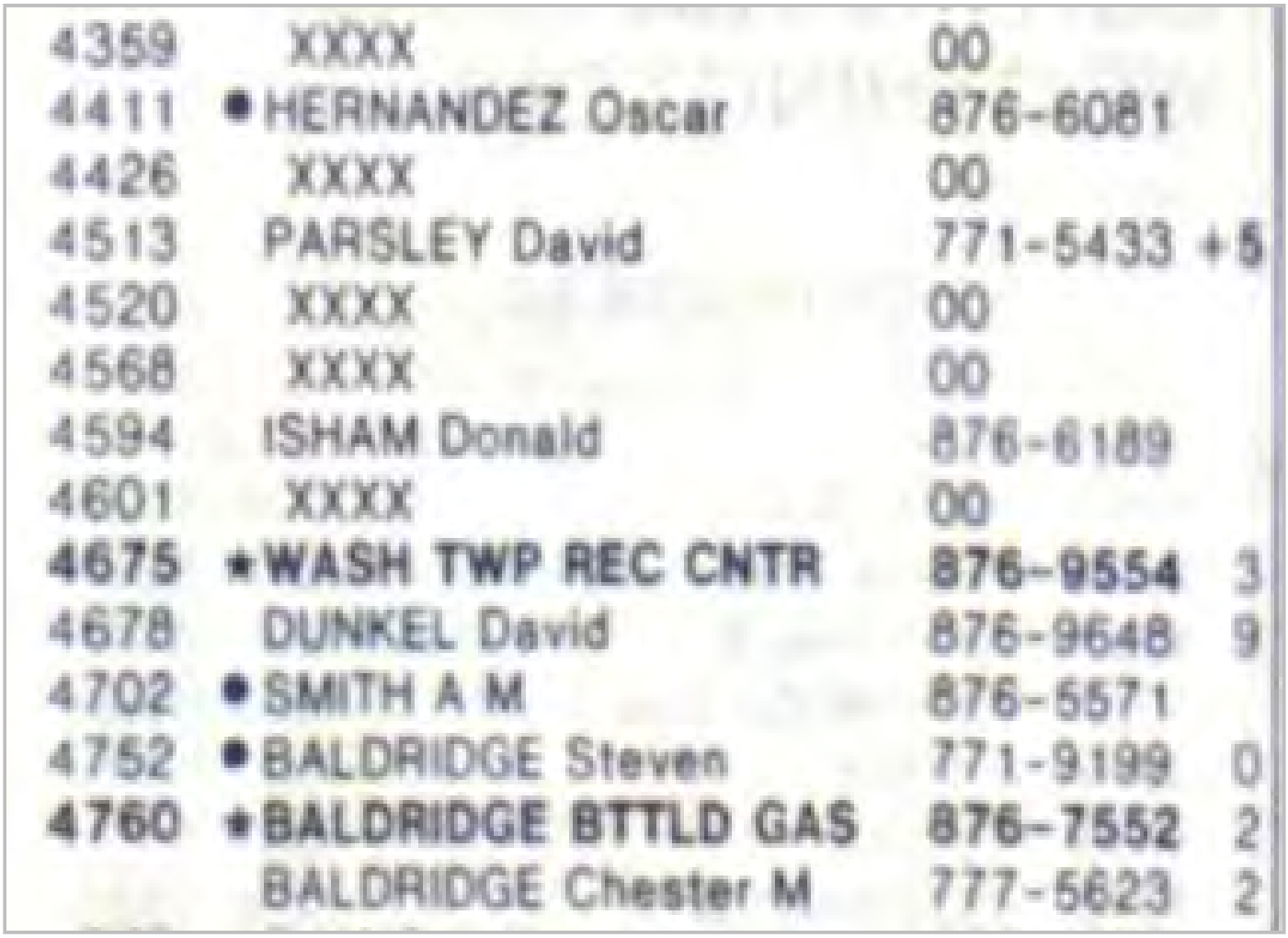
Target Street	Cross Street	Source
-	✓	EDR Digital Archive

LEPPERT RD 2000

4200	HILLIARD CITY SCHOOL DISTRICT
4340	WHITED, MAXINE
4370	MCKINNEY, MARK
4384	MCCULLOUGH, DAVE
4399	NELSON, ARLEY R
4418	DURZO PAINT RMDLG
	DURZO, DAVID B
4430	KASLER, VERN L
4438	KASLER, ANNA E
4445	LEPPERT, K
4470	OCCUPANT UNKNOWN,
4701	HOEFLINGER, GEORGE R
4777	CROW, FRED M
4810	SHERWOOD, DOLORES Y
4815	KRAMER, JAMES
4825	RUSSELL, CARL S

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

COSGRAY RD 1996



4359		XXXX	00
4411	•	HERNANDEZ Oscar	876-6081
4426		XXXX	00
4513		PARSLEY David	771-5433 +5
4520		XXXX	00
4568		XXXX	00
4594		ISHAM Donald	876-6189
4601		XXXX	00
4675	*	WASH TWP REC CNTR	876-9554 3
4678		DUNKEL David	876-9648 9
4702	•	SMITH A M	876-5571
4752	•	BALDRIDGE Steven	771-9199 0
4760	*	BALDRIDGE BTTLD GAS	876-7552 2
		BALDRIDGE Chester M	777-5623 2

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

LEPPERT RD 1996

LEPPERT RD 43026
HILLIARD

WEALTH CODE 7.0

4226	XXXX	00	
4238	POWELL Bruce	777-9818	4
4244	XXXX	00	
4260	● VONDRISDA Thos	876-1715	0
4338	XXXX	00	
4340	● WHITED M	876-4116	
4370	● MCKINNEY Mark	876-1487	4
4384	MCCULLOUGH Dave	771-1975	4
	MCCULLOUGH Tanya	771-1975	
4396	MCCULLOUGH Jas W	876-7896	
4399	● NELSON Arley R	876-5870	
4418	XXXX	00	
4430	● KASLER Vern L	876-7998	
4438	● KASLER A E	876-7856	
4445	● LEPPERT Paul C	876-7815	
4450	XXXX	00	
4462	XXXX	00	
4470	XXXX	00	
4490	XXXX	00	
4701	● HOEFLINGER Geo R	876-7489	
4777	● CROW Fred M	876-7722	1
4810	XXXX	00	
4815	● KRAMER Jas	876-7572	7
4825	RUSSELL Carl S	876-6568	3

● 0 BUS 24 RES 0 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

COSGRAY RD 1990

4359	XXXX	00	
4411	HERNANDEZ Oscar	876-6081	3
4426	XXXX	00	
4513	WELLS Melinda J	876-7810	
4520	XXXX	00	
4568	XXXX	00	
4594	ISHAM Donald	876-6189	4
4601	XXXX	00	
4678	ADAMCAK C	876-9648	6
	DUNKEL David	876-9648	9
4702	SMITH A M	876-5571	
4752	BALDRIDGE Steven	771-9199	+0
4766	BALDRIDGE Chester M	876-7552	
4771	FRANZ Craig L	876-2162	

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

LEPPERT RD 1990

LEPPERT RD 43026
HILLIARD

4226	XXXX	00	
4238	WRAY Dale	876-5344	8
4244	XXXX	00	
4260	VONDRISDA Thos	876-1715	+0
4338	XXXX	00	
4340	WHITED M	876-4116	3
4370	SAVAGE Rodney	876-1982	7
4396	MCCULLOUGH Jas W	876-7896	4
4399	NELSON Arley R	876-5870	
4418	XXXX	00	
4430	KASLER Raphael	876-7998	
4438	KASLER A E	876-7856	
4445	LEPPERT Paul C	876-7815	
4450	XXXX	00	
4462	YOUNG Glenn	876-7781	
4470	XXXX	00	
4490	XXXX	00	
4701	HOEFLINGER Geo R	876-7489	
4777	CONNOR Wm T	876-7615	
4815	KRAMER Jas	876-7572	7

* 0 BUS 20 RES 1 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

COSGRAY RD 1985

4359	XXXX	00	
4411	HERNANDEZ OSCAR	876-6081	3
4426	XXXX	00	
4513	WELLS MALINDA J	876-7810	9
4520	XXXX	00	
4568	XXXX	00	
4594	ISHAM DONALD	876-6189	4
4601	XXXX	00	
4678	**RIDDLE ROBERT**	**876-6093**	
	RIDDLE ROBT	876-6093	7
	RIDDLES WOOD DOCTOR	**876-6093**	
4702	SMITH EARL M	876-5571	
4752	XXXX	00	
4766	BALDRIDGE CHESTER M	876-7552	
4771	FRANZ CRAIG L	876-2162	6

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

LEPPERT RD 1985

LEPPERT RD 43026
HILLIARD

4226	XXXX	00	
4238	FRYE C L	771-1465	4
	KNECHT DAVE	771-1465	4
4244	VONDRISDA THOS	876-1715	3
4260	SALYER LUNDA	876-5230	7
4338	XXXX	00	
4340	WIMER S	876-4116	3
4370	KNICK ROBERT W	876-9537	8
4396	MCCULLOUGH JAS W	876-7896	4
4399	NELSON ARLEY R	876-5870	9
4418	XXXX	00	
4430	KASLER RAPHAEL	876-7998	6
4438	KASLER GLENDON	876-7856	
4445	LEPPERT PAUL C	876-7815	9
4450	XXXX	00	
4462	YOUNG GLENN	876-7781	
4470	XXXX	00	
4490	XXXX	00	
4701	HOEFLINGER G R MD	876-7489	
4777	CONNOR WM T	876-7615	

* 0 BUS 20 RES 0 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

COSGRAY RD 1980

4359	XXXX	00	
4411	WHITACKER STEPHEN	876-2280	+0
4426	XXXX	00	
4513	WELLS LONNIE	876-7810	9
4520	XXXX	00	
4568	XXXX	00	
4594	SKAGGS R E	876-1382	6
	SKAGGS R E-CHLD	876-6189	8
4678	RIDDLE ROBT	876-6093	7
*	RIDDLES WOOD DOCTOR	876-6093	7
4702	SMITH EARL M	876-5571	
4752	SIMMERS D W	876-2195	5
4766	BALDRIDGE CHESTER M	876-7552	
4771	FRANZ CRAIG L	876-2162	6
4780	SAGER S	876-5325	

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

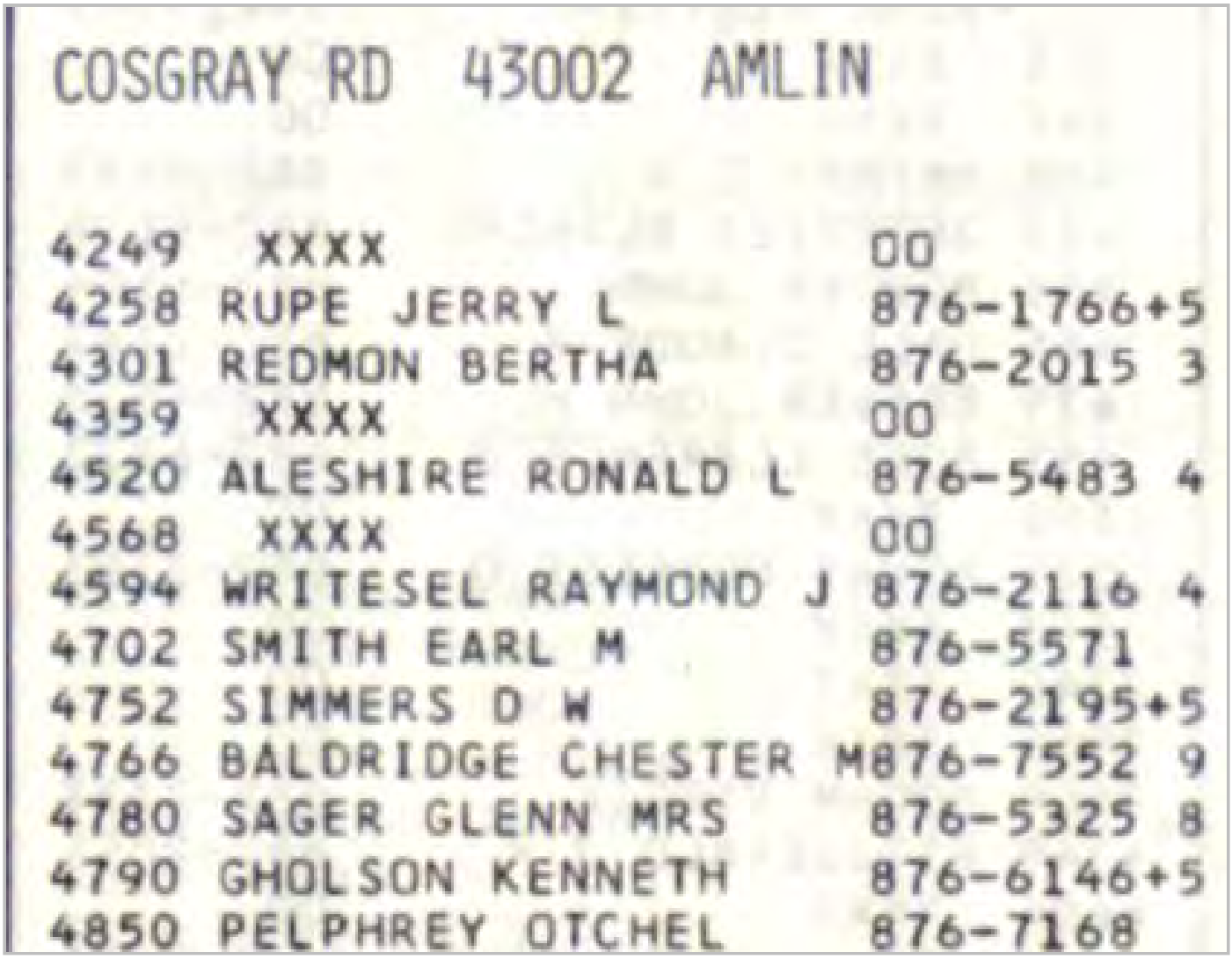
LEPPERT RD 1980

LEPPERT RD 43026
HILLIARD

4226	XXXX	00	
4238	PERRY LEROY	876-9572	8
4244	XXXX	00	
4260	SALYER LUNDA	876-5230	7
4340	WHITED K	876-1662	7
4370	KNICK ROBERT W	876-9537	8
4399	NELSON ARLEY R	876-6870	9
4418*	EXCELL O INVENTORY	876-5628	+0
*	KNAPP ROBT R SR	876-5628	+0
*	KNPP ROBT R SR	876-5628	+0
4430	KASLER RAPHAEL	876-7998	6
4438	KASLER GLEN	876-7856	
4445	LEPPERT PAUL C	876-7815	9
4450	XXXX	00	
4462	YOUNG GLENN	876-7781	
4470	LEPPERT LOIS	876-5661	
	LEPPERT RODNEY	876-5661	
4701	HOEFLINGER G R MD	876-7489	
	HOEFLINGER GEO R-MD	876-7489	+0
4777	CONNOR WM T	876-7615	
NO #	MCCULLOUGH JAS W	876-7896	
*	3 BUS 18 RES	4 NEW	

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

COSGRAY RD 1975



COSGRAY RD 43002 AMLIN

4249	XXXX	OO
4258	RUPE JERRY L	876-1766+5
4301	REDMON BERTHA	876-2015 3
4359	XXXX	OO
4520	ALESHIRE RONALD L	876-5483 4
4568	XXXX	OO
4594	WRITESEL RAYMOND J	876-2116 4
4702	SMITH EARL M	876-5571
4752	SIMMERS D W	876-2195+5
4766	BALDRIDGE CHESTER M	876-7552 9
4780	SAGER GLENN MRS	876-5325 8
4790	GHOLSON KENNETH	876-6146+5
4850	PELPHREY OTCHEL	876-7168

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

LEPPERT RD 1975

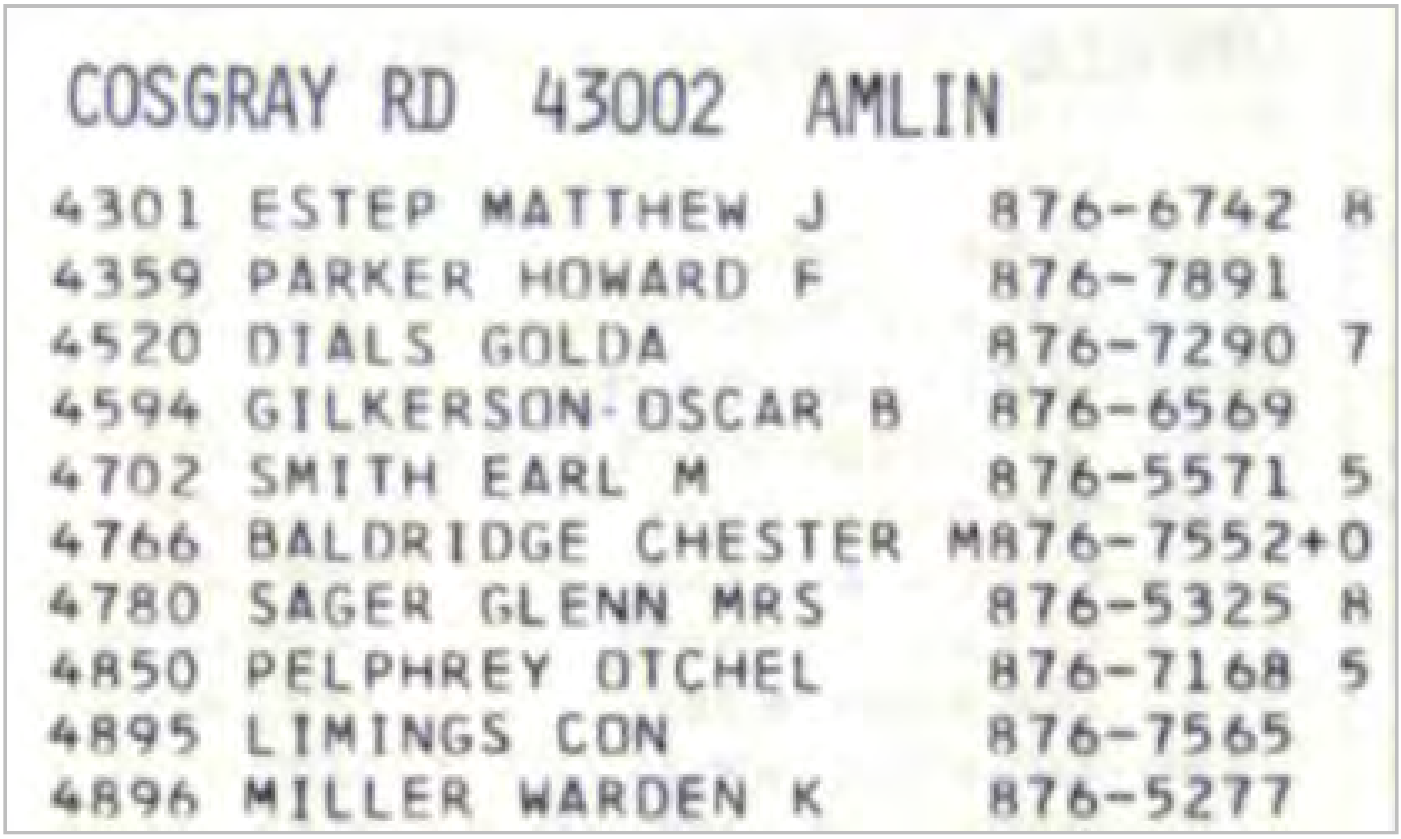
LEPPERT RD 43026 HILLIARD

4226	XXXX	OO
4238	XXXX	OO
4244	MAYER RICHARD	876-6886 4
4260	GILLIAM JAS W	876-5230
4340	XXXX	OO
4399*	FANCI THAT ANTQE SH	876-6357 4
4418	SKAGGS ALFRED	876-7829 2
	SKAGGS GOLDIE	876-7829 2
4438	KASLER GLEN	876-7856
4450	XXXX	OO
4462	YOUNG GLENN	876-7781 7
4470	LEPPERT LOIS	876-5661
	LEPPERT RODNEY	876-5661
4701	HOEFLINGER G R MD	876-7489
	HOEFLINGER G CHLDRN	876-6914+5
4777	CONNOR WM T	876-7615
NO #	KASLER RAPHAEL	876-7998
NO #	LEPPERT CHRIS	876-7815
NO #	MCCULLOUGH JAS W	876-7896

* 1 BUS 18 RES 1 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

COSGRAY RD 1970



COSGRAY RD 43002 AMLIN

4301	ESTEP MATTHEW J	876-6742 R
4359	PARKER HOWARD F	876-7891
4520	DIALS GOLDA	876-7290 7
4594	GILKERSON-OSCAR B	876-6569
4702	SMITH EARL M	876-5571 5
4766	BALDRIDGE CHESTER	MA76-7552+O
4780	SAGER GLENN MRS	876-5325 R
4850	PELPHREY OTCHEL	876-7168 5
4895	LIMINGS CON	876-7565
4896	MILLER WARDEN K	876-5277

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

LEPPERT RD 1970

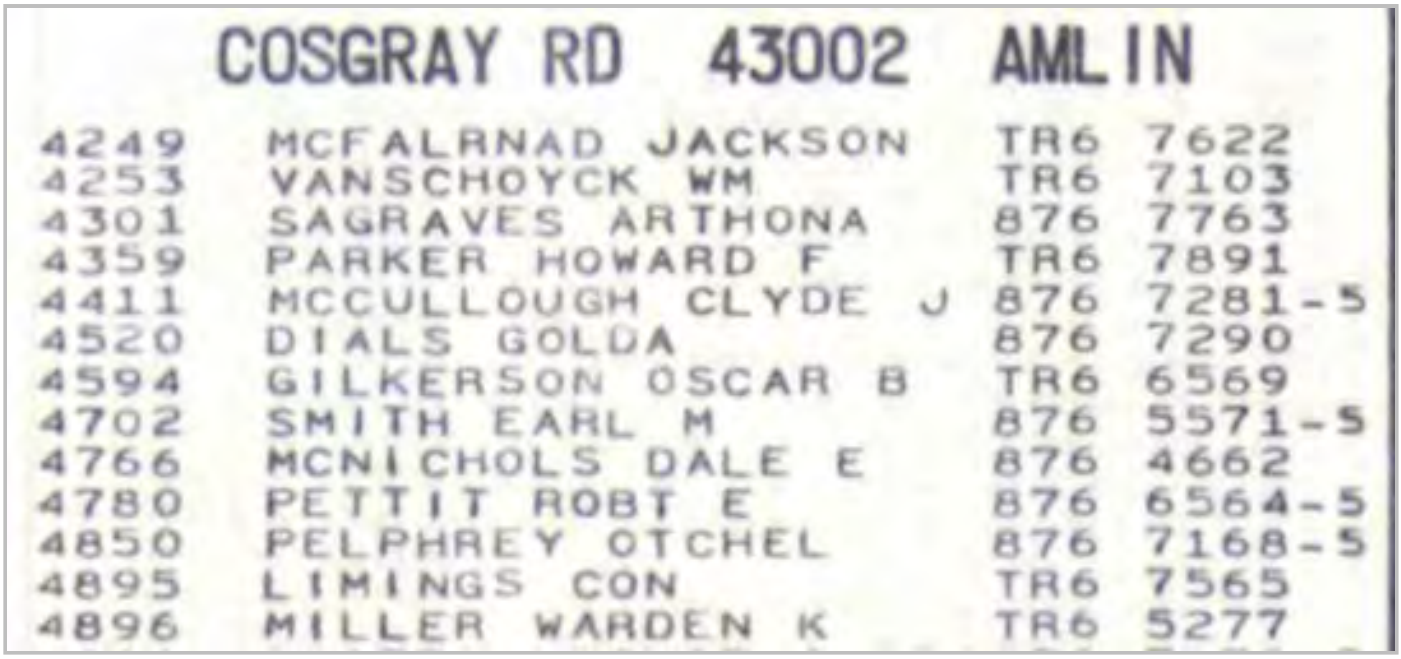
LEPPERT RD 43026 HILLIARD

4226	MULLINS EVERETT	876-6609
4260	GILLIAM JAS W	876-5230
4399	MOWERY C T	876-6357
443R	KASLER GLEN	876-7856
4462	YOUNG GLENN	876-7781
4470	LEPPERT LOIS	876-5661
	LEPPERT RODNEY	876-5661
4701	HOEFLINGER G R MD	876-7489
	HOEFLINGER G CHLDRN	876-6914
4777	CONNOR WM T	876-7615
NO #	KASLER RAPHAEL	876-7998
NO #	LEPPERT CHRIS	876-7815
NO #	MCCULLOUGH JAS W	876-7896
NO #	SKAGGS ALFRED	876-7829

* 0 BUS 14 RES 0 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

COSGRAY RD 1965

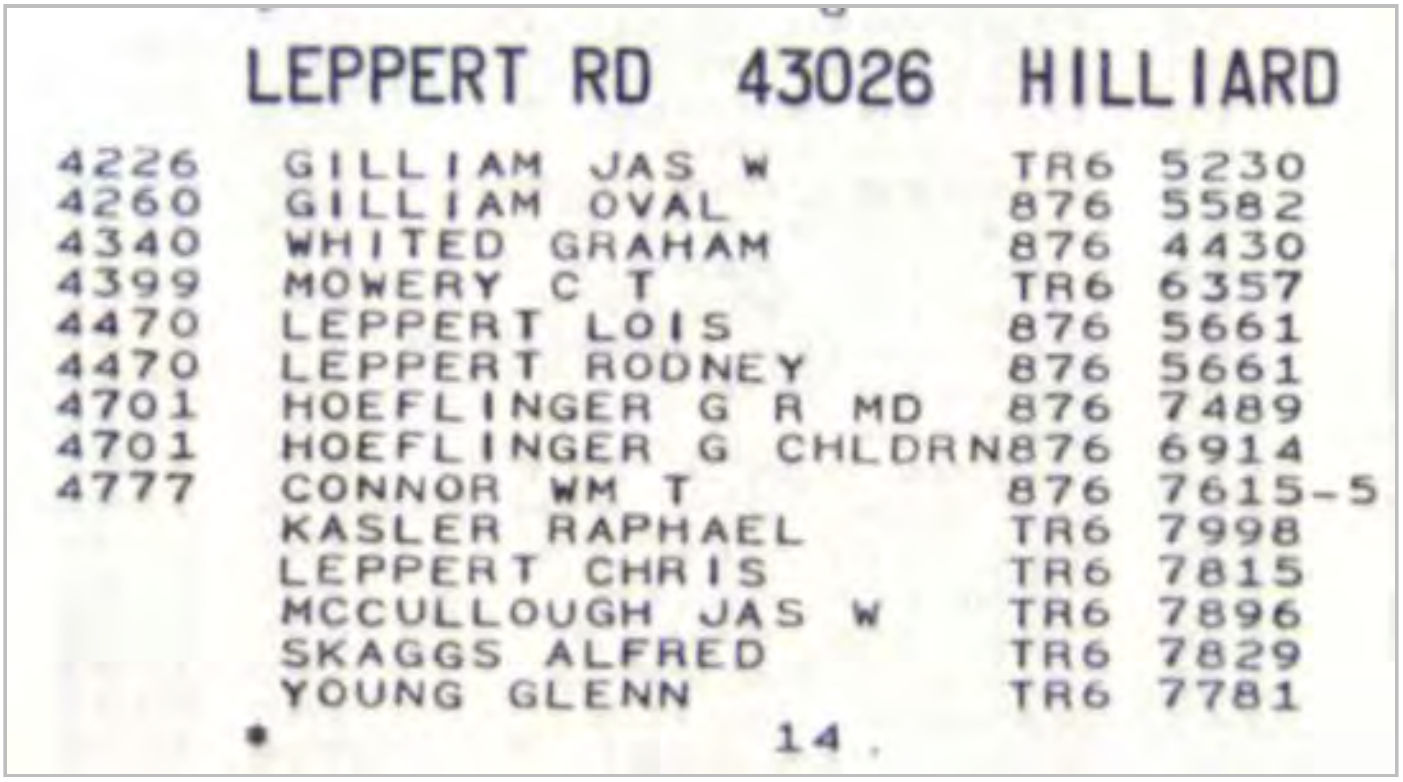


COSGRAY RD 43002 AMLIN

4249	MCFALRNAD JACKSON	TR6	7622
4253	VANSCHOYCK WM	TR6	7103
4301	SAGRAVES ARTHONA	876	7763
4359	PARKER HOWARD F	TR6	7891
4411	MCCULLOUGH CLYDE J	876	7281-5
4520	DIALS GOLDA	876	7290
4594	GILKERSON OSCAR B	TR6	6569
4702	SMITH EARL M	876	5571-5
4766	MCNICHOLS DALE E	876	4662
4780	PETTIT ROBT E	876	6564-5
4850	PELPHREY OTCHEL	876	7168-5
4895	LIMINGS CON	TR6	7565
4896	MILLER WARDEN K	TR6	5277

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

LEPPERT RD 1965



LEPPERT RD 43026 HILLIARD

4226	GILLIAM JAS W	TR6	5230
4260	GILLIAM OVAL	876	5582
4340	WHITED GRAHAM	876	4430
4399	MOWERY C T	TR6	6357
4470	LEPPERT LOIS	876	5661
4470	LEPPERT RODNEY	876	5661
4701	HOEFLINGER G R MD	876	7489
4701	HOEFLINGER G CHLDRN	876	6914
4777	CONNOR WM T	876	7615-5
	KASLER RAPHAEL	TR6	7998
	LEPPERT CHRIS	TR6	7815
	MCCULLOUGH JAS W	TR6	7896
	SKAGGS ALFRED	TR6	7829
	YOUNG GLENN	TR6	7781

14

Hilliard Multi-Use Sports Complex

Cosgray Road

Hilliard, OH 43026

Inquiry Number: 5473965.8

November 05, 2018

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

11/05/18

Site Name:

Hilliard Multi-Use Sports Comp
Cosgray Road
Hilliard, OH 43026
EDR Inquiry # 5473965.8

Client Name:

S&ME
6190 Enterprise Court
Dublin, OH 43017
Contact: Samuel Staschiak

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2017	1"=500'	Flight Year: 2017	USDA/NAIP
2013	1"=500'	Flight Year: 2013	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
2000	1"=500'	Flight Date: October 11, 2000	NAPP
1994	1"=500'	Acquisition Date: April 07, 1994	USGS/DOQQ
1989	1"=500'	Flight Date: April 14, 1989	NAPP
1981	1"=500'	Flight Date: April 21, 1981	USDA
1979	1"=500'	Flight Date: November 01, 1979	USGS
1972	1"=500'	Flight Date: May 06, 1972	USDA
1965	1"=500'	Flight Date: April 29, 1965	USGS
1953	1"=500'	Flight Date: March 01, 1953	USGS
1950	1"=500'	Flight Date: August 14, 1950	USDA
1938	1"=500'	Flight Date: August 13, 1938	USDA

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INQUIRY #: 5473965.8
YEAR: 2017
= 500'
N
EDR

INQUIRY #: 5473965.8
YEAR: 2013
= 500'
N
EDR

INQUIRY #: 5473965.8
YEAR: 2010
= 500'
N
EDR

INQUIRY #: 5473965.8
YEAR: 2006
= 500'
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EDR

INQUIRY #: 5473965.8
YEAR: 2000
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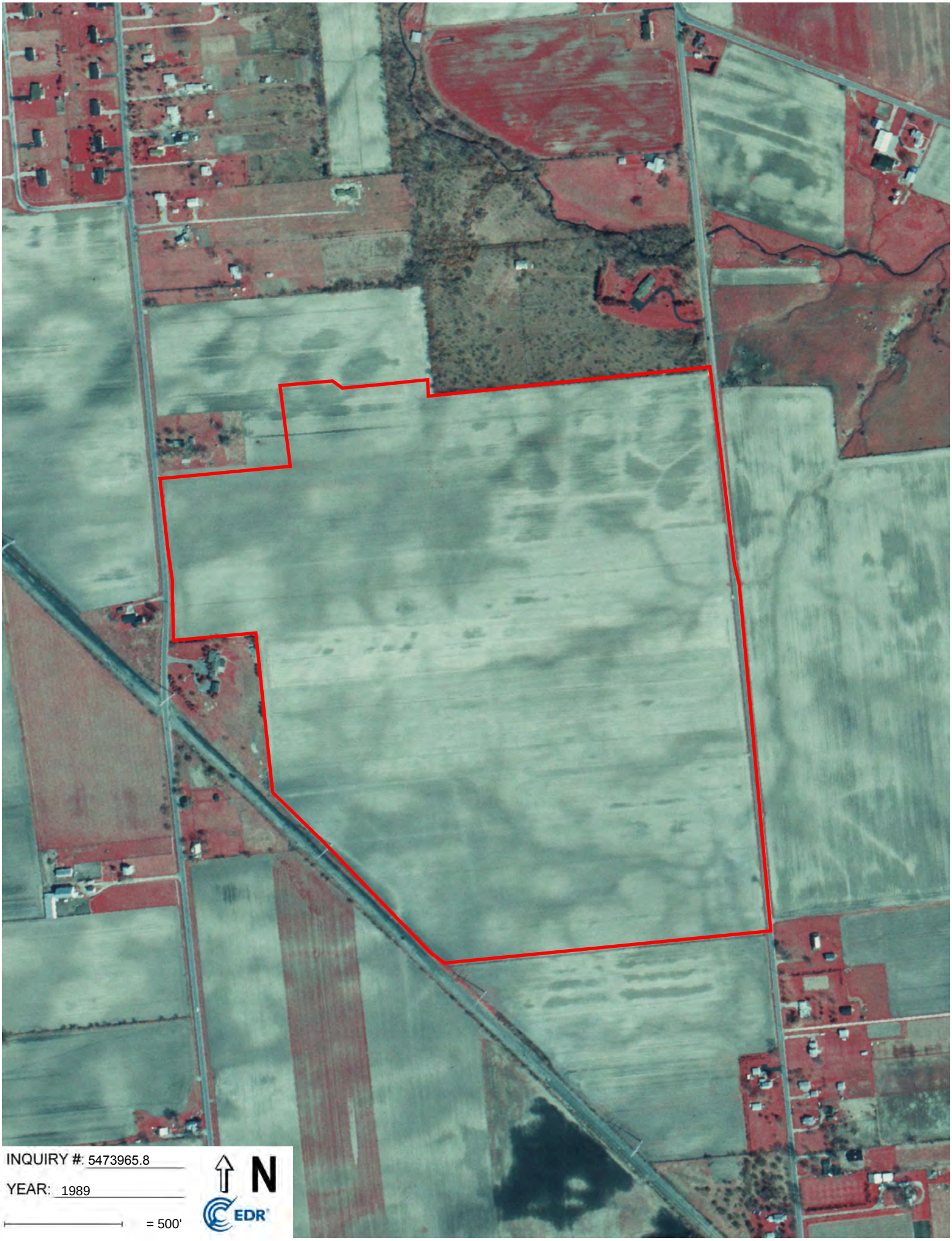
EDR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EDR

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YEAR: 1981
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YEAR: 1979
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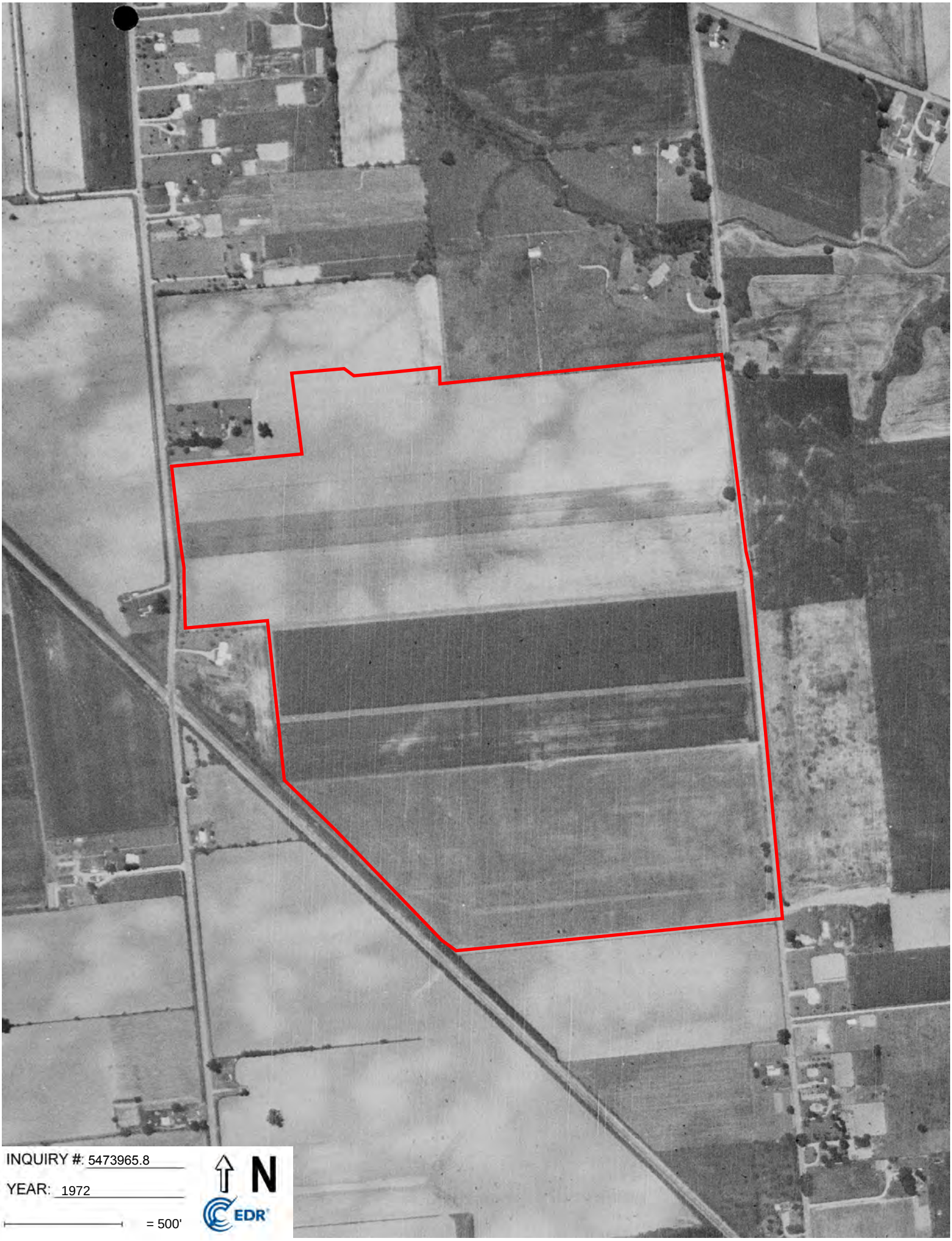
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EDR

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YEAR: 1965
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EDR

INQUIRY #: 5473965.8
YEAR: 1953
= 500'
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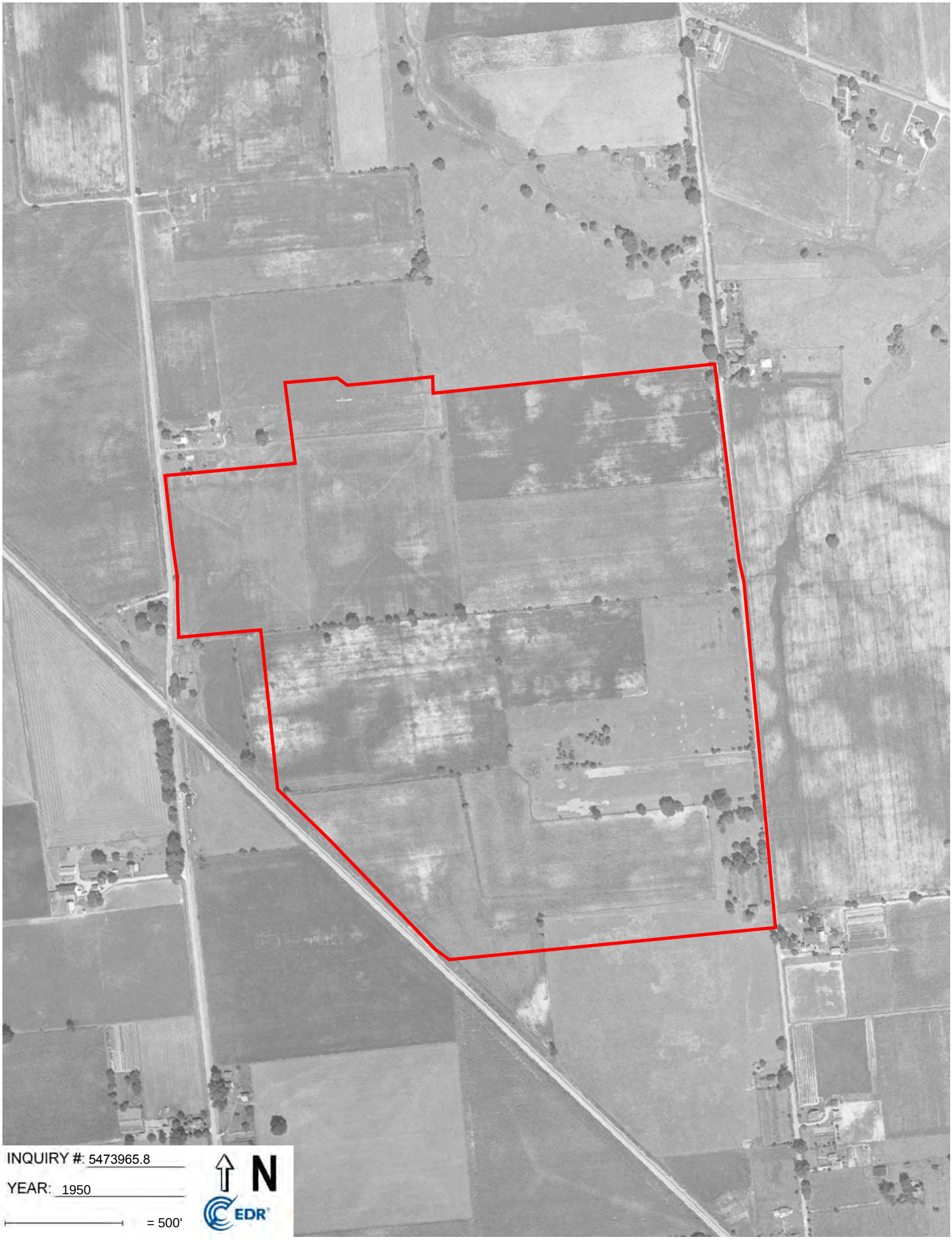
INQUIRY #: 5473965.8
YEAR: 1950
= 500'
N
EDR

INQUIRY #: 5473965.8
YEAR: 1938
= 500'
N
EDR

Hilliard Multi-Use Sports Complex
Cosgray Road
Hilliard, OH 43026

Inquiry Number: 5473965.4
November 02, 2018

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

11/02/18

Site Name:	Client Name:
Hilliard Multi-Use Sports Comp	S&ME
Cosgray Road	6190 Enterprise Court
Hilliard, OH 43026	Dublin, OH 43017
EDR Inquiry # 5473965.4	Contact: Samuel Staschiak

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by S&ME were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:		*Coordinates:*	
P.O.#	4117-18-011	**Latitude:**	40.049693 40° 2' 59" North
Project:	Hilliard Sports Complex	**Longitude:**	-83.176443 -83° 10' 35" West
		UTM Zone:	Zone 17 North
		UTM X Meters:	314346.45
		UTM Y Meters:	4435542.17
		Elevation:	940.00' above sea level

Maps Provided:

2013	1901
1984	
1980	
1973	
1966	
1954	
1912	
1903	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2013 Source Sheets

Hilliard
2013
7.5-minute, 24000

1984 Source Sheets

Hilliard
1984
7.5-minute, 24000
Aerial Photo Revised 1973

1980 Source Sheets

Hilliard
1980
7.5-minute, 24000
Aerial Photo Revised 1973

1973 Source Sheets

Hilliard
1973
7.5-minute, 24000
Aerial Photo Revised 1973

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1966 Source Sheets

Hilliard
1966
7.5-minute, 24000
Aerial Photo Revised 1953

1954 Source Sheets

Hilliard
1954
7.5-minute, 24000
Aerial Photo Revised 1953

1912 Source Sheets

COLUMBUS
1912
30-minute, 125000

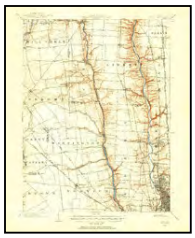
1903 Source Sheets

Dublin
1903
15-minute, 62500

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

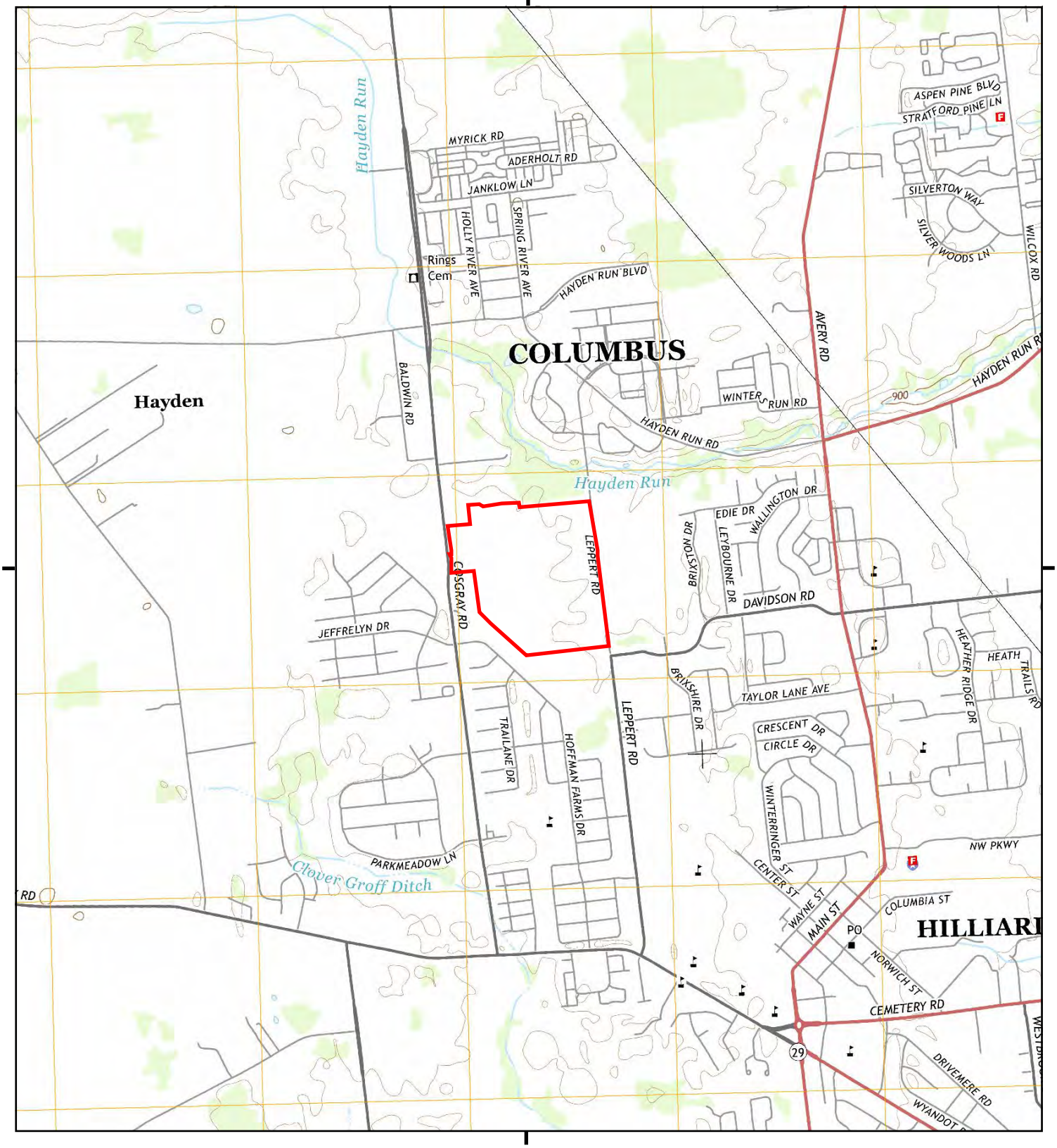
1901 Source Sheets



Dublin
1901
15-minute, 62500

Historical Topo Map

2013



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

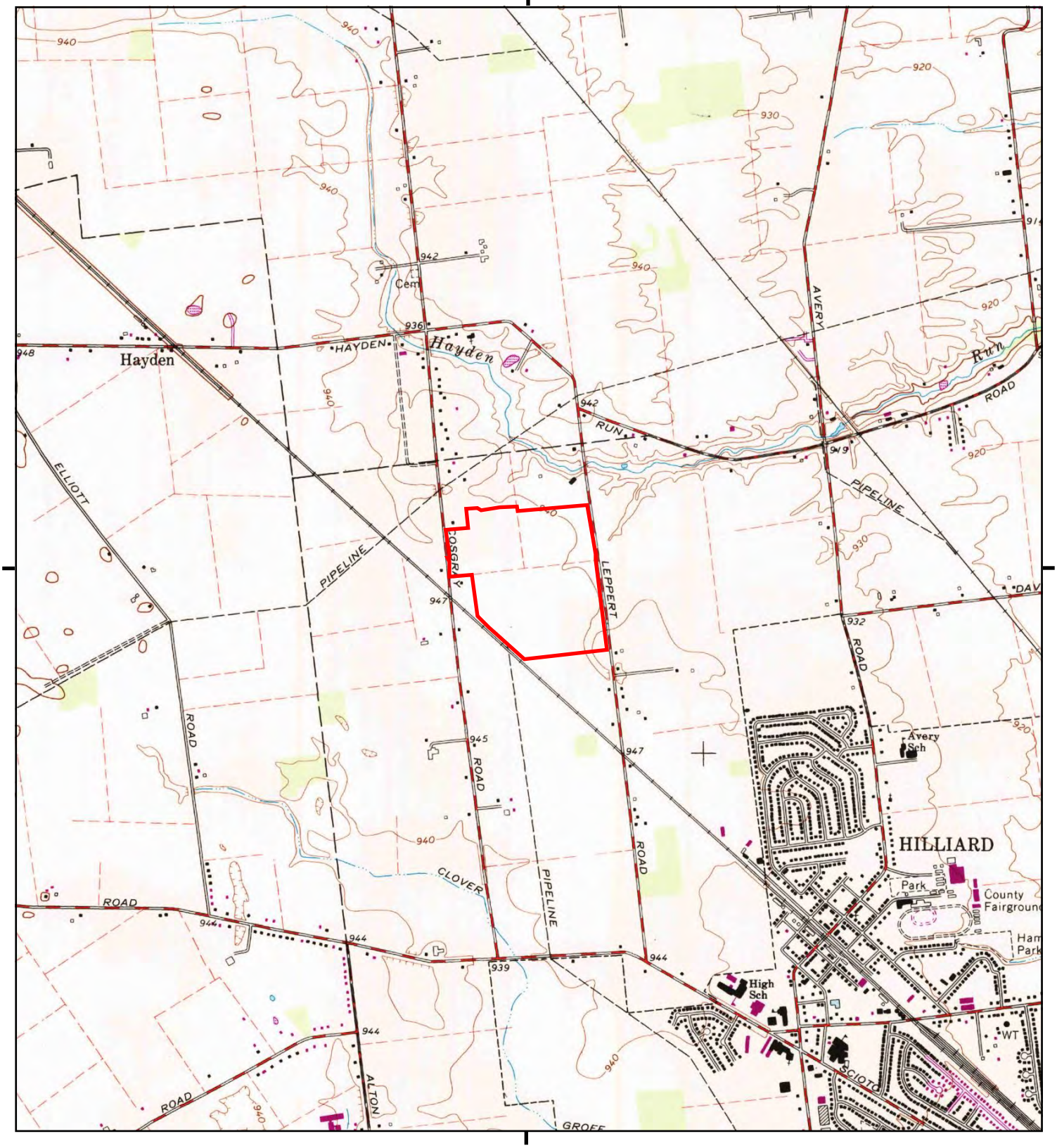
TP, Hilliard, 2013, 7.5-minute

SITE NAME: Hilliard Multi-Use Sports Complex
ADDRESS: Cosgray Road
Hilliard, OH 43026
CLIENT: S&ME

N

Historical Topo Map

1984



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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

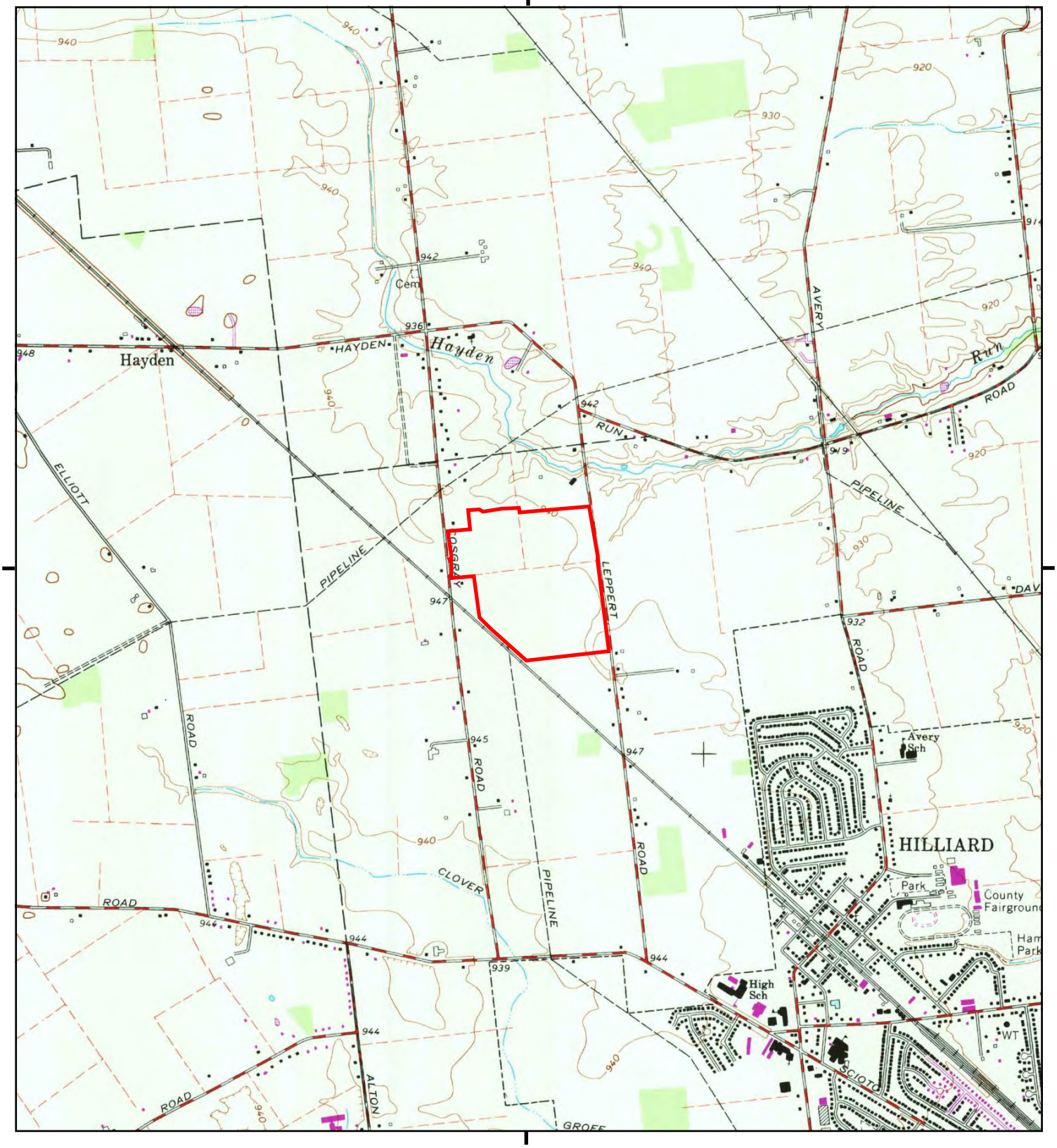
TP, Hilliard, 1984, 7.5-minute

SITE NAME: Hilliard Multi-Use Sports Complex
ADDRESS: Cosgray Road
Hilliard, OH 43026
CLIENT: S&ME

N

Historical Topo Map

1980



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

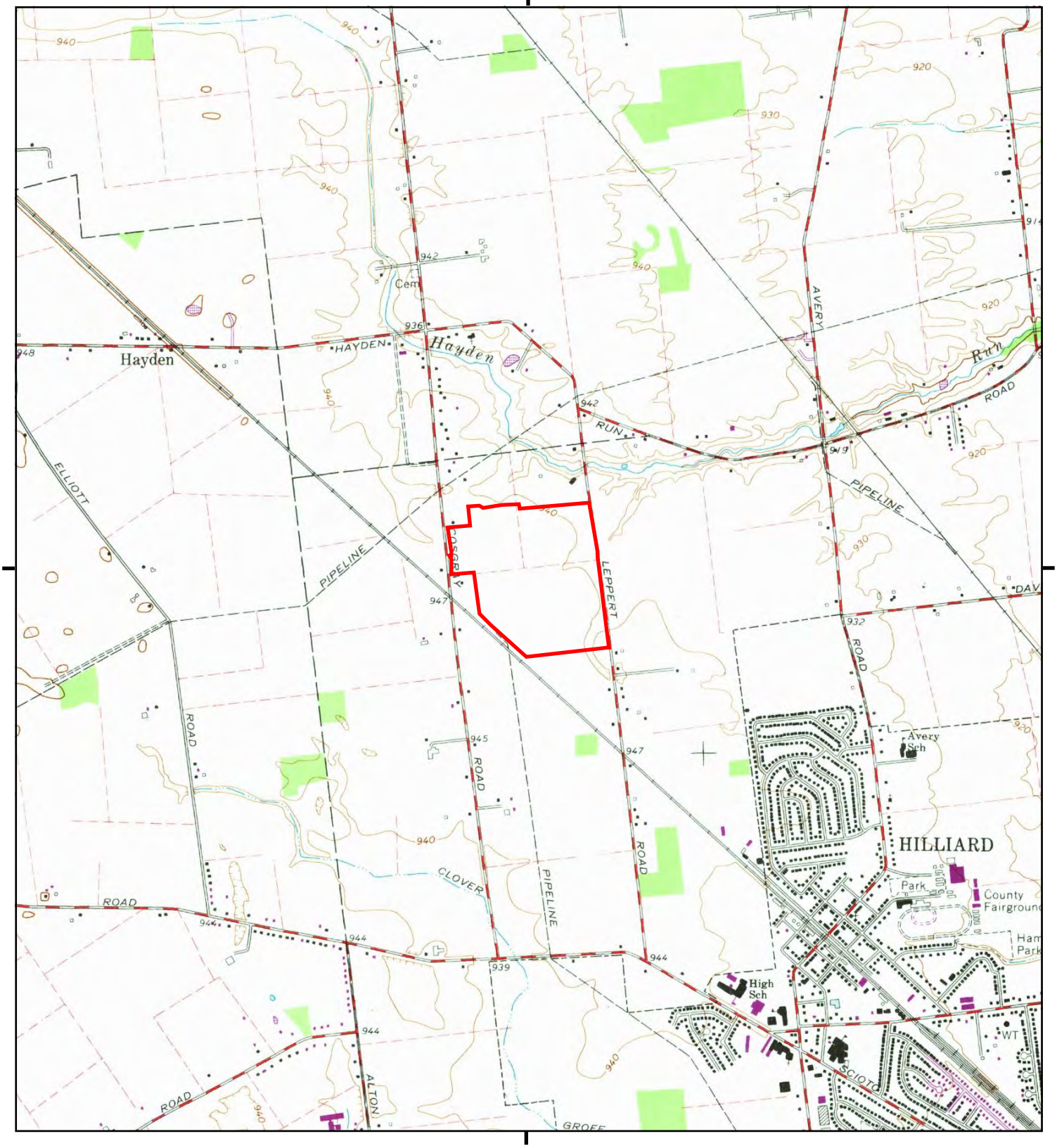
TP, Hilliard, 1980, 7.5-minute

SITE NAME: Hilliard Multi-Use Sports Complex
ADDRESS: Cosgray Road
Hilliard, OH 43026
CLIENT: S&ME

N

Historical Topo Map

1973



This report includes information from the following map sheet(s).

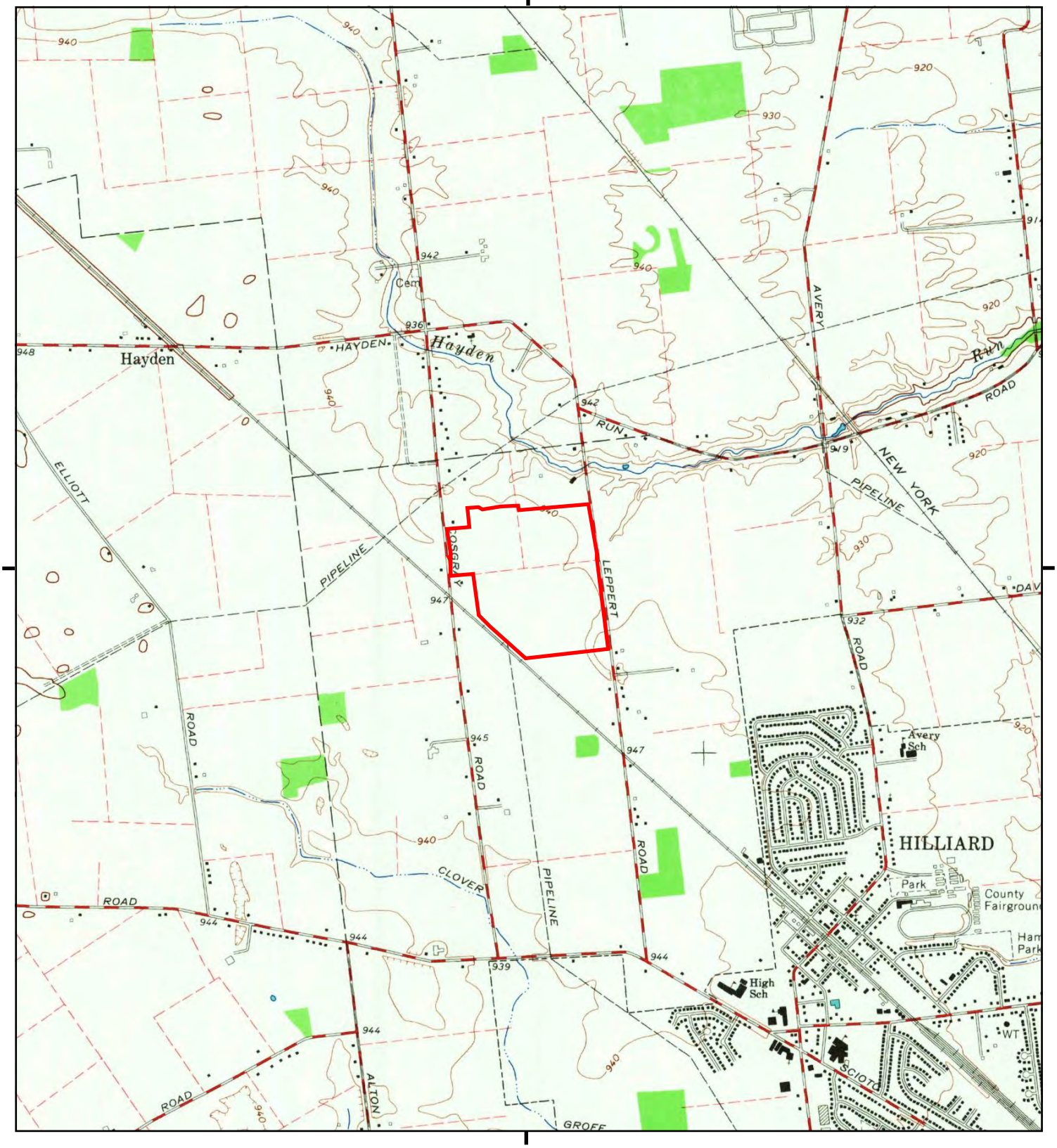
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Hilliard, 1973, 7.5-minute

SITE NAME: Hilliard Multi-Use Sports Complex
ADDRESS: Cosgray Road
Hilliard, OH 43026
CLIENT: S&ME

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

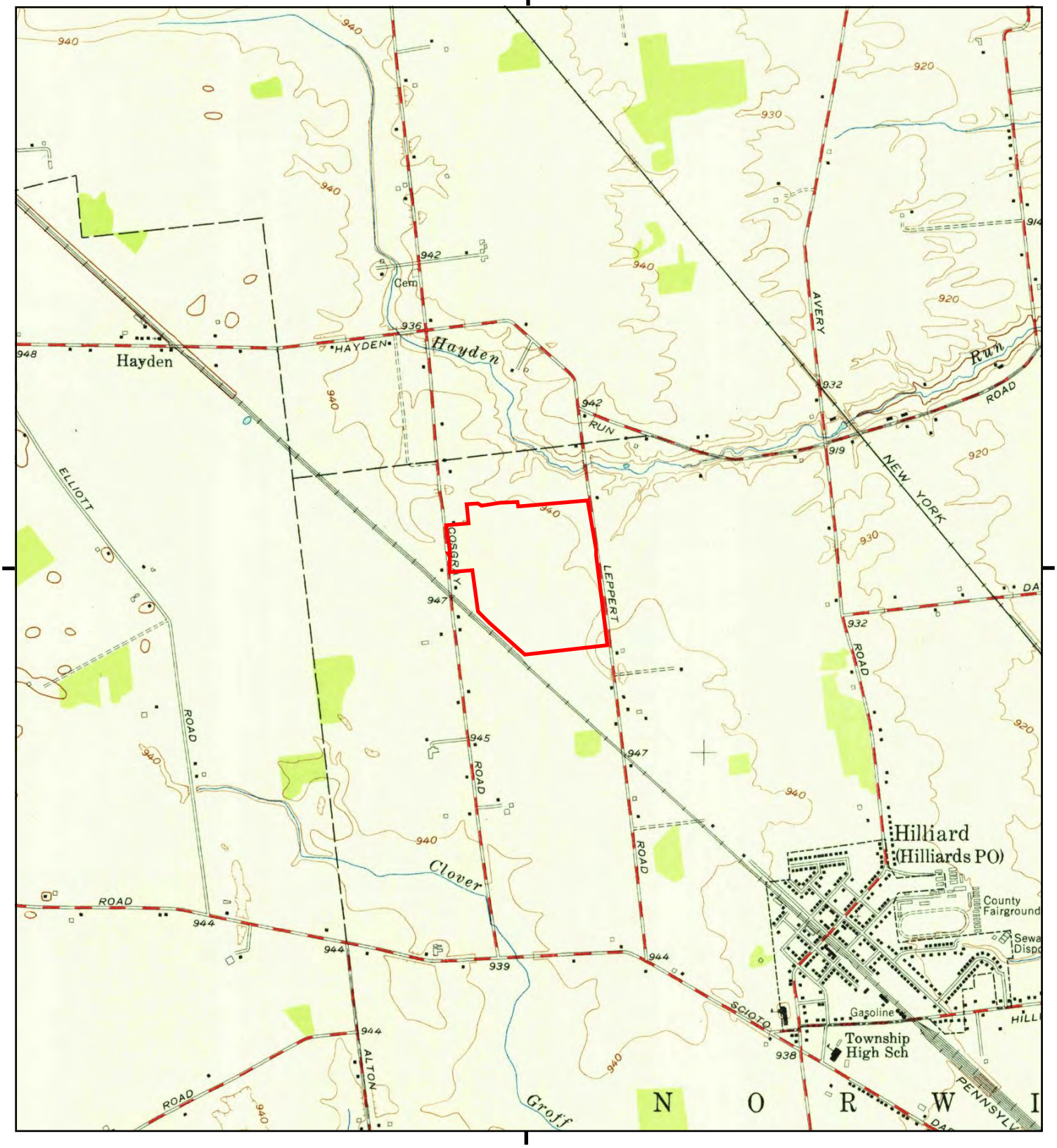
TP, Hilliard, 1966, 7.5-minute

SITE NAME: Hilliard Multi-Use Sports Complex
ADDRESS: Cosgray Road
Hilliard, OH 43026
CLIENT: S&ME

N

Historical Topo Map

1954



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Hilliard, 1954, 7.5-minute

SITE NAME: Hilliard Multi-Use Sports Complex
ADDRESS: Cosgray Road
Hilliard, OH 43026
CLIENT: S&ME

N

This report includes information from the following map sheet(s).

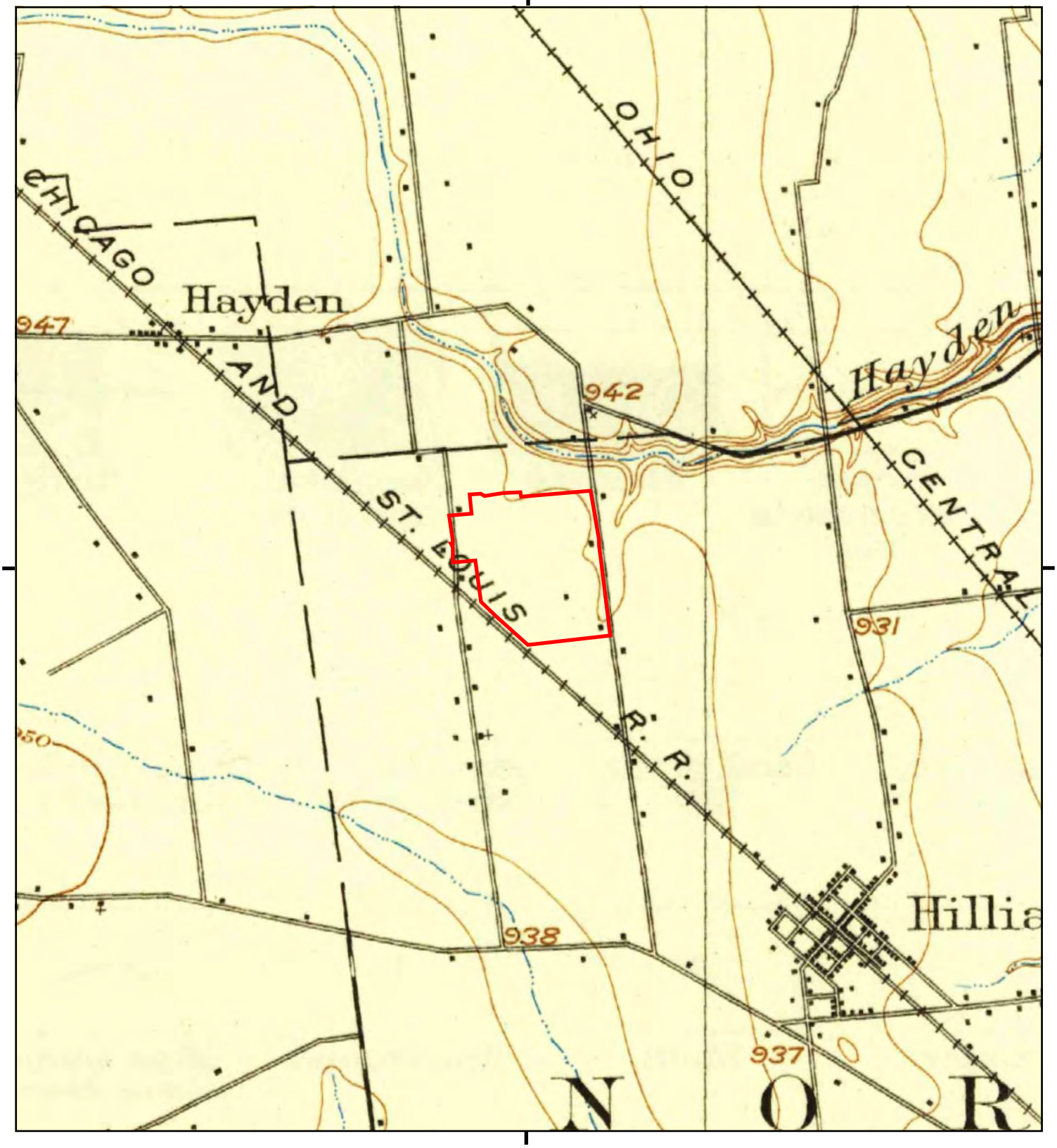
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, COLUMBUS, 1912, 30-minute

SITE NAME: Hilliard Multi-Use Sports Complex
ADDRESS: Cosgray Road
Hilliard, OH 43026
CLIENT: S&ME

N



This report includes information from the following map sheet(s).

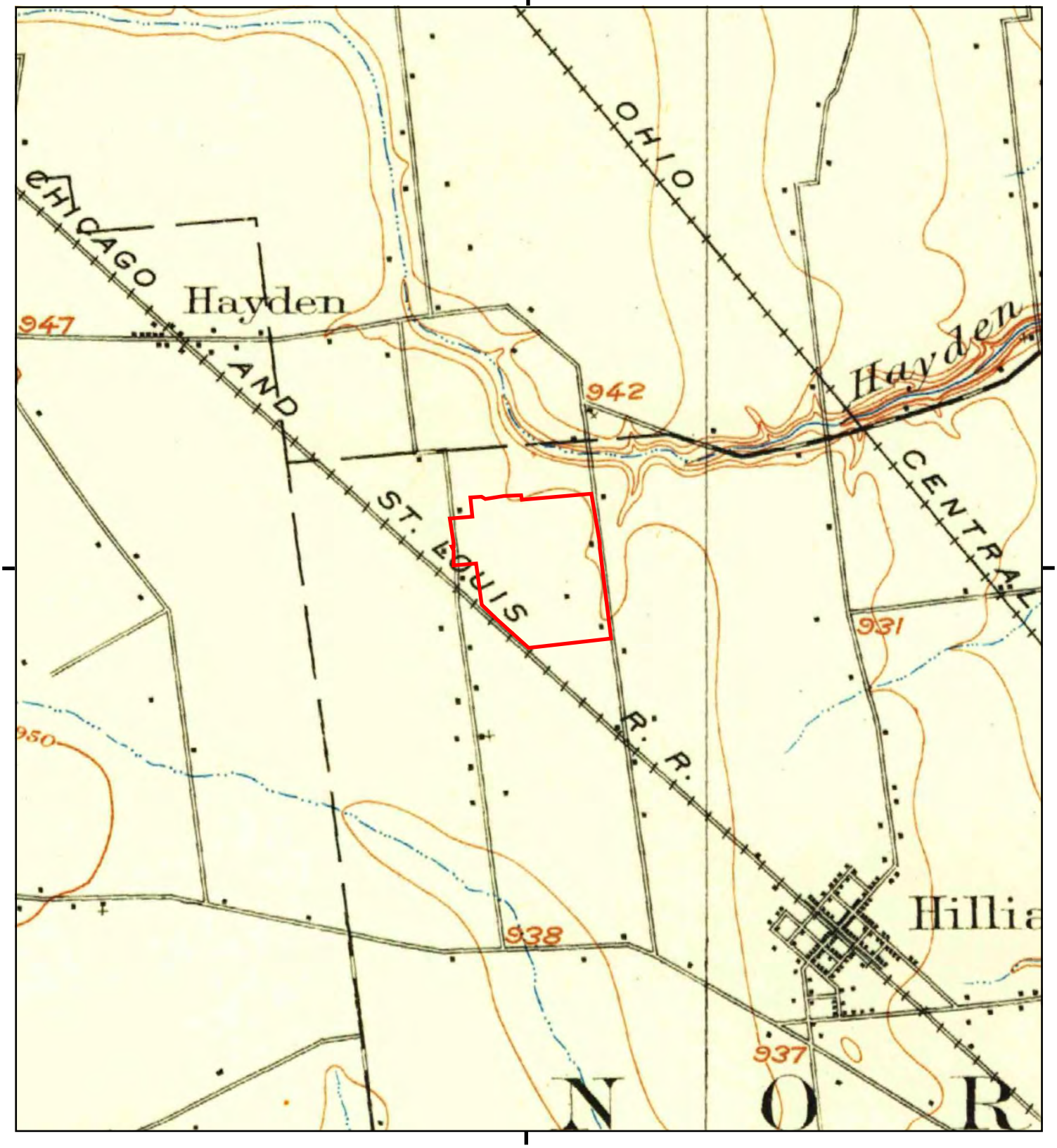
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Dublin, 1903, 15-minute

SITE NAME: Hilliard Multi-Use Sports Complex
ADDRESS: Cosgray Road
Hilliard, OH 43026
CLIENT: S&ME

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Dublin, 1901, 15-minute

SITE NAME: Hilliard Multi-Use Sports Complex
ADDRESS: Cosgray Road
Hilliard, OH 43026
CLIENT: S&ME

N

Appendix IV – Site Photographs

1	View southwest portion of the property. Facing southwest	**Date:** 11/16/18 **Photographer:** SJS

2	View of the northwest portion of the property. Facing northeast.	**Date:** 11/16/18 **Photographer:** SJS

3	View of the north side of the property, with cellular tower. Facing east-northeast.	**Date:** 11/16/18 **Photographer:** SJS

4	View of the east side of the property. Facing south-southeast.	**Date:** 11/16/18 **Photographer:** SJS

5	View of the southeast side of the property. Facing southeast.	**Date:** 11/16/18 **Photographer:** SJS

6	View of central area on the property. Facing north-northwest.	**Date:** 11/16/18 **Photographer:** SJS

7	High voltage lines on the southwest side of the property along Heritage Trail. Facing northwest.	**Date:** 11/16/18 **Photographer:** SJS

8	Evidence of petroleum pipeline running along Heritage Trail south of the property. Facing northeast.	**Date:** 11/16/18 **Photographer:** SJS

Appendix V – Interview Documentation & User Questionnaire

OWNER/TENANT INTERVIEW – PHASE I ESA

Owner/Representative Name/Job Title: Richard Grener

Phone Number: (614) 554-7768 Date: 1/2/2019 Time: 12:20 PM

☐ Owner ☐ Site Manager ☐ Occupant ☒ Prior Owner ☐ Knowledgeable Person

What is your association with the Property and how long have you been associated with the Property?

1940 - 2004

What is your knowledge of the history of the Property?

Farmed until 2004 Always farmed, purchased as farm land.

Has the Property ever been used as a shooting range, for waste disposal, dry cleaning, or for engine/automotive repairs?

N/A

Have there been structures removed from the Property?

An old log cabin and barn, torn down after purchase (1940)

Do you know who the previous Property owner is and do you have a contact number? What is the current use of the Property? The current use of the property is agricultural

Are you aware of any underground storage tanks (USTs) currently on the Property or ever removed from the Property?

If so: Tank Contents Capacity (gal.) Age Any Spills/Leaks

None that he is aware of

Are you aware of any aboveground storage tanks (ASTs) currently on the Property or ever removed from the Property?

If so: Tank Contents Capacity (gal.) Age Any Spills/Leaks

None that he is aware of

How many electrical transformers are on the Property and who owns the transformers?

None

OWNER/TENANT INTERVIEW – PHASE I ESA (Continued)

What utility companies service the Property?

Water – None
Electric – None
Sewer – None
Natural gas – pipeline on the south end.

Are there buried lines on the Property?
None to his recollection.

Has there been any manufacturing, storage, handling, or disposal of hazardous material or petroleum products on the Property?

Are there any wells (water, oil/gas, injection, or monitoring), cisterns, or septic systems on the Property?

Locations: None.

Has there been any soil fill placed on the Property? Has anything been buried on the Property?
None.
If yes, where did the fill come from?

Have there been any permits or citations from the Ohio Environmental Protection Agency or health department for the Property? None

Are you aware of any environmental liens or activity and use limitations for the Property?
None
Are you aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products, in, on, or from the Property? None.

Are you aware of pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the Property? None

Are you aware of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products at the Property?

None.

OWNER/TENANT INTERVIEW – PHASE I ESA (Continued)

IF PROPERTY IS DEVELOPED:

How many buildings are on the Property? Any below grade structures on the Property? Please provide following details (if known): None

Building/Structure	# Stories/Levels	Year Built	Area (Sq. Ft.)

Are the buildings occupied or vacant?

If occupied, who are the tenants? N/A

What are the buildings used for:

N/A

Do you have any knowledge of asbestos-containing materials, lead-based paint, mold or moisture problems in the buildings? N/A

How is the building(s) heated?

N/A

Are there any floor drains in the building and, if so, where do they discharge?

N/A

Is there any hydraulic containing equipment in the buildings (i.e. elevators, automotive lifts, etc.)?

N/A

Are there fluorescent lights in the building and how are they disposed?

N/A

Are there any waste streams from the Property (solid, liquid, air)?

N/A

Are there permits for any discharges from the buildings?

N/A

Where do waste streams discharge?

N/A

What raw materials are used on the Property (i.e. oils, paints, chemicals)?

N/A

City of Hilliard
Grener Sports Complex Parcels
Phase 1 User Questionnaire

1. Are you aware of any environmental clean-up liens against the property that are filed or recorded under federal, tribal, state or local laws?
   - *No, I am not aware of any liens filed or recorded against the property.*

2. Are you aware of any Activity and Use Limitations (AUL's) such as engineering controls, land use restrictions, or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, state or local laws?
   - *No, I am not aware of any engineering controls, land use restrictions, or institutional controls in place on the property.*

3. As the User of this ESA, do you have any specialized knowledge or experience related to the subject property or nearby properties?
   - *I have knowledge of the past use of this property. The land has been farmed for as long as I'm aware, approximately 50 years.*

4. Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If not, is the lower purchase price attributable to known or suspected contamination?
   - *Yes, the purchase price of this property reasonably reflects the fair market value of the land.*

5. Are you aware of information about the property that would be helpful in identifying conditions indicative of contaminant releases, such as: a) past use of the property; b) presence of specific chemicals (past or present); c) spills or chemical releases at the property; or d) environmental cleanups that have taken place at the property?
   - *The land has been farmed for as long as I'm aware, approximately 50 years.*
   - *I am not aware of any presence of specific chemicals, spills or chemical releases, or environmental cleanups on the property.*

6. As the User of this Phase I ESA and based on your knowledge and experience of the property, are there any obvious indicators that point to the presence or likely presence of contamination on the property?
   - *To my knowledge, there are no obvious indicators for the presence or likely presence of contamination on the property.*

NORWICH TOWNSHIP FIRE DEPARTMENT

5181 NORTHWEST PARKWAY
HILLIARD, OHIO 43026
614-876-7694
FAX 614-777-9347

November 19, 2018

Samuel J. Staschiak
S&ME, Inc.
6190 Enterprise Court
Dublin, Ohio 43016

Email: sstaschiak@smeinc.com

RE: Environmental Site Assessment Request for Information on Property:
Located between Cosgray Road and Leppert Road north of Davidson Road and south of Bo Jackson Elite Sports Facility Hilliard, Ohio 43026 – Parcel# 050-011197-00, 050-011455-00 & 050-009807-00

Dear Mr. Staschiak:

In regards to potential environmental concerns on the above referenced parcels in Hilliard, Ohio 43026, the Norwich Township Fire Department has no records pertaining to aboveground/underground storage tanks, hazardous substances or spills, open fire code violations or environmental complaints. I researched these properties through the Franklin County Auditor's website to ascertain their location. I have attached the maps of the individual parcels we researched from the auditor's website for your records.

Please contact me for further assistance regarding this property by phone at 614-876-3331 or email Mildred Brooks at mildred_brooks@norwichtownship.org.

Sincerely,

Mildred L. Brooks
Administrative Assistant
Fire Prevention Bureau
614-876-3331 Direct Dial

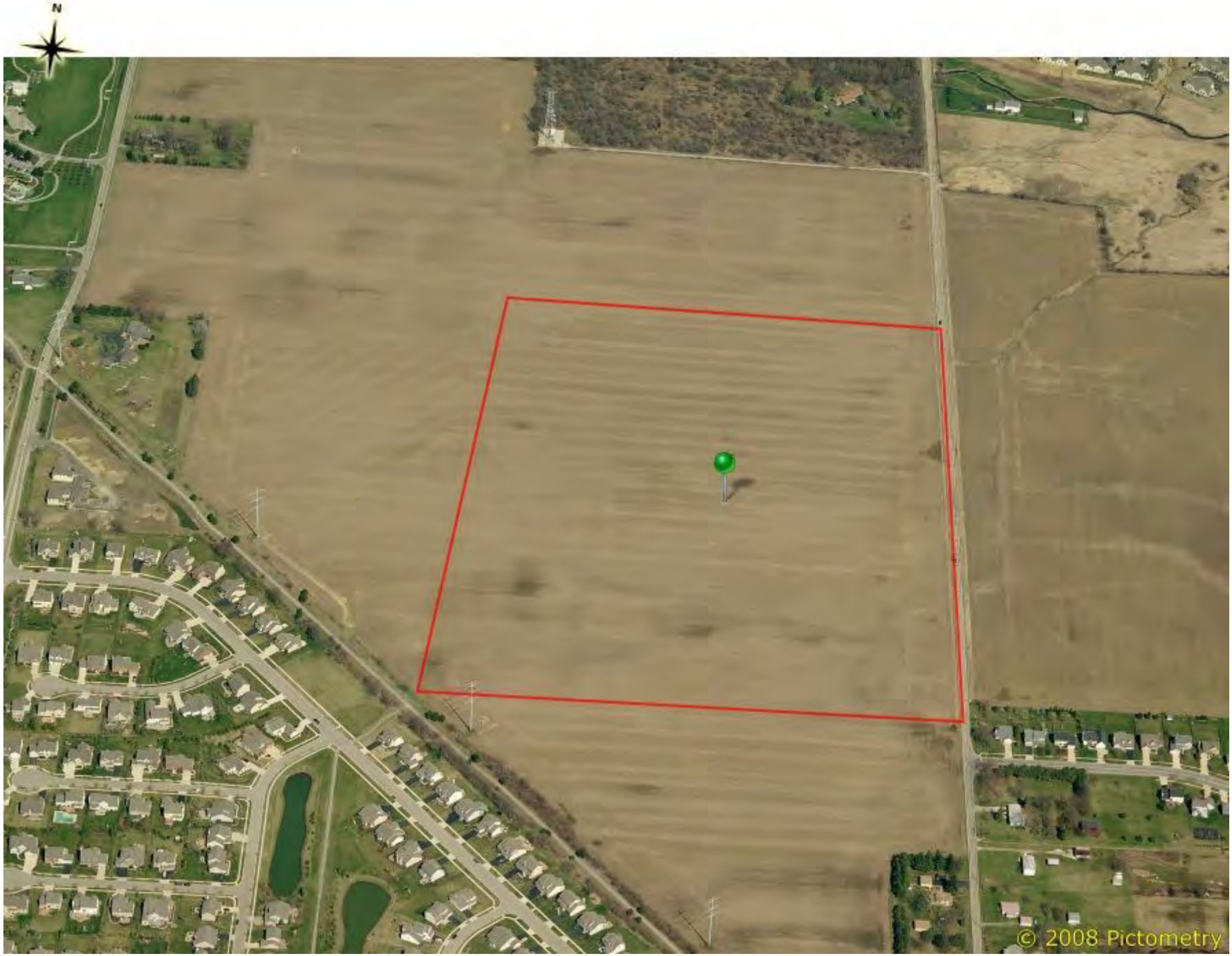
050-009807-00

04/02/2008

Parcel#040-011197-00

04/07/2008

050-011455-00



04/07/2008

Sam Staschiak

From: Franklin County Public Health <fcphuser@franklincountyohio.gov>
Sent: Friday, December 07, 2018 4:54 PM
To: Sam Staschiak
Subject: FW: EA Grener Multi-Use Sports Complex Hilliard
Attachments: 3204_001.pdf

Good afternoon Mr. Staschiak,

Per your request on November 16, 2018, for the Environmental Assessment at Grener Multi-Use Sports Complex in Hilliard, OH, we have searched our files and found no records related to this request.

I wanted to double check with you that you are contacting other agencies, such as the OEPA, to find information related to your request? We have received several requests recently regarding spills, underground tanks, etc. that are not handled through our department. Other agencies were not cognizant of this, so we are reaching out to ensure awareness.

Please note, we understand that companies send blanket requests when inquiring on records. Please continue to send requests this way. I have marked on our records that you are aware of what we cover here at FCPH, so no further action is needed on your end.

If you have questions or need additional assistance please don't hesitate to let me know.

Thank you and have a great day!

Kind regards,

Alycia Burkitt
Administrative Assistant
Franklin County Public Health
280 East Broad Street
Columbus, Ohio 43215-4562

AlyciaBurkitt@franklincountyohio.gov
(614)525-4173

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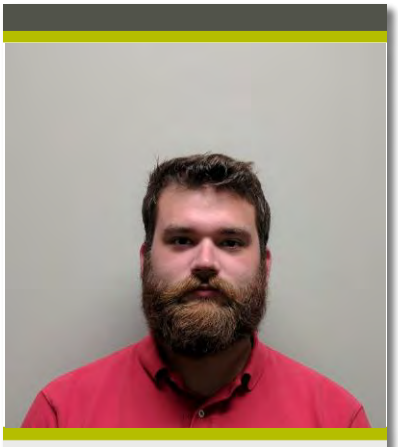
From: FCPH CANON SCANNER [mailto:FCPH@franklincountyohio.gov]
Sent: Tuesday, November 20, 2018 2:31 PM
To: Burkitt, Alycia M. <AlyciaBurkitt@franklincountyohio.gov>
Subject: EA Grener Multi-Use Sports Complex Hilliard

Appendix VI – Qualifications of Environmental and Staff Professionals



PROJECT ROLE

Staff Professional

EDUCATION

- A.S. Wildlife Resource Management, Hocking College
- B.S.S. Geography and Biological Sciences, Ohio University

YEARS OF EXPERIENCE

Joined S&ME in 2017 with 2 years of experience

CERTIFICATIONS

- OSHA HAZWOPER 40HR
- Asbestos Building Inspector
- Asbestos Management Planner
- CESSWI-IT

PROFESSIONAL MEMBERSHIPS

- Society of Wetland Scientists
- AmeriCorps Alumni

Sam Staschiak

Staff Environmental Scientist

Mr. Staschiak is a Staff Environmental Scientist with three years of experience performing ecological and environmental services. He has experience with wetland delineations, ecological assessments, Geographic Information System (GIS) mapping, and stormwater inspections. Mr. Staschiak also works on transportation projects that are completed in accordance with NEPA regulations. He is skilled in interacting with project managers, contractors, and permitting agencies. Mr. Staschiak is proficient with ArcGIS and other GIS mapping software and routinely creates natural resources and various environmental documentation exhibits. Mr. Staschiak primarily works on transportation, private development, energy, and water resource projects.

Key Projects and Assignments

Southpointe Roadway

Butler County, Ohio | 2017

Assisted with a jurisdictional waters delineation of wetlands and streams for proposed roadway project. Surveyed stream and wetland boundaries with a Trimble GPS unit. Utilized the information gathered via Global Positioning System (GPS) and GIS software to compile data sets and create exhibits for a jurisdictional waters delineation report.

FRA-Winchester Pike-0.87

Franklin County, Ohio | 2017

Staff scientist for a Level 1 Ecological Survey for a bridge replacement. Tasks included wetland delineation, stream habitat assessment, protected species habitat surveys, water quality sampling, and GIS mapping. Assisted with completing report to document results of the survey.

HAS-22-02.64

Harrison County, Ohio | 2017

Staff scientist for a Level 1 Ecological Survey for a bridge replacement. Tasks included wetland delineation, stream habitat assessment, protected species habitat surveys, water quality sampling, and GIS mapping. Surveyed stream and wetland boundaries with a Trimble GPS unit.

*Jonathan Creek Monitoring

Perry County, Ohio | 2015-2017

Completed detailed monitoring of Jonathan Creek which included collecting water quality samples in accordance with Environmental Protection Agency protocol. Samples were delivering to an accredited laboratory for fecal coliform testing along with nitrate and phosphate levels. Completed detailed GIS mapping of existing log jams, including assessments for removal, and worked with landowners and regulatory agencies involved in the management of the watershed.

**Experience with previous employer.*

PROJECT ROLE
Project Environmental Scientist

COMPANY
Columbus, OH

EDUCATION
- BS, Natural Resources Development, Specializing in Monitoring and Assessment, 1991,The Ohio State University

YEARS OF EXPERIENCE
Joined S&ME in 1991

CERTIFICATIONS
- Certified Asbestos Building Inspector
- Certified Asbestos Management Planner
- Certified Asbestos Hazard Evaluation Specialist
- Certified Professional in Storm Water Quality
- Environmental Professional per 312.10 of CFR 312
- OSHA 40-Hr Hazardous Waste Operations and Emergency Response Training
- ODOT CE Training, 2010

Eric P. Slosser, CPSWQ, AHES

Project Environmental Scientist

Mr. Slosser is a Project Environmental Scientist for S&ME's Columbus location. He offers 25 years of experience in environmental services. Over the course of his career, Mr. Slosser has performed hundreds of Phase I Environmental Site Assessments (ESA), hundreds of asbestos-containing materials (ACM) investigations, as well as Phase II ESAs; business environmental risk investigations; groundwater and surface water monitoring; categorical exclusion document preparation; ESA screenings; National Environmental Policy Act (NEPA) site assessments; Underground Storage Tank (UST) closures and tier evaluations; Phase I Hazardous, Toxic, and Radioactive Waste (HTRW) investigations; storm water inspections and management; and, stream and wetland mitigation monitoring. Mr. Slosser has also assisted with Level 1 and 2 ecological surveys and Running Buffalo Clover (RBC) investigations.

Key Projects and Assignments

Phase I Environmental Site Assessments (ESA) Projects

Cheshire Elementary School Sanitary Sewer Improvements
Delaware County, Ohio | 2009-2010
Performed Phase I ESA for approximately 7,700 feet of sanitary sewer along the north and south sides of Cheshire Road in Berlin Township.

6,002-Acre Midwest Farms Property
Madison County, Ohio | 2009
Conducted a Phase I ESA for a 6,000 acre agricultural property including a cattle feed lot, four houses, one farmstead and associated barns.

Garfield Tower
Cincinnati, Ohio | 2003
A 16-story apartment and commercial building which included water sampling and sampling for asbestos.
#013.00402.000

Beechwood Elementary, Etna Elementary, Rosemore Middle School, Kae Elementary, and Whitehall-Yearling High School buildings
Whitehall, Ohio
Conducted Phase I ESAs on five school sites for the Whitehall City School District.

Elks Run Golf Club
Clermont County, Ohio
A 163-Acre site developed with a golf course, club house, and maintenance area.

805-Acre University Estates Site
Athens County, Ohio | 2008
Conducted a Phase I ESA for an 805-acre site proposed for mixed use developed with housing, commercial, and recreational facilities. Included vapor intrusion

**Experience with previous employer.*

CERTIFICATIONS (CONT'D)

- ODOT Purpose & Need Training, 2016
- ODOT Section 106/National Register Eligibility Training, 2010
- ODOT Section 4f/6f Training, 2011
- ODOT Managing the Environmental and Project Development Process Training, 2004
- ODOT NEPA Training, 2016
- ODOT Public Involvement, 2016
- Safeland Training, #PEC100674810, 2015

PROFESSIONAL MEMBERSHIPS

- Society of Wetland Scientists

screen, Housing and Urban Development environmental document preparation, and EPA file review.

Proposed Wal-Mart Store Expansion
Austintown, Mahoning County, Ohio | 2006

Conducted a Phase I ESA of a 127,000 square foot retail store with automotive center. Included chemical analysis of water and building materials for lead and asbestos.

28.9-Acre Africa Road Property
Berlin Township, Delaware County, Ohio | 2013

Conducted a Phase I ESA of a mixed agricultural, wooded, and residential site for potential residential development.

Proposed Residence Inn Polaris
Delaware County, Ohio | 2012

Conducted a Phase I ESA of a vacant 3-acre site for a planned commercial development.

Kingston Township Hall and Park Property
Kingston Township, Delaware County, Ohio | 2009

Conducted a Phase I ESA of a 288-acre site consisting of a former farmstead, tree-covered land, and agricultural fields.

Southside Health Medical Office Buildings
Columbus, Ohio | 2016

The property consisted of three parcels near downtown Columbus, Ohio and was developed with a four-story medical office building and a three-story medical office building and associated parking lots. Historical review included aerial photographs, historic topographic maps, fire insurance maps and city directories and indicated the property was developed prior to 1900 with as many as 36 different structures between 1900 and 1970. Regulatory records review indicated two underground storage tanks had been removed from the property resulting in a review of Ohio Bureau of Underground Storage Tank Regulation files. Findings included four recognized environmental conditions.

Phase I and Phase II ESAs

Former Harrison Avenue Landfill
Cincinnati, Ohio | 2006

Conducted Phase I and Phase II ESAs of a 19-acre site which operated as an unpermitted landfill. Developed with a commercial building used for automotive maintenance, former underground storage tank, and approximately 25 feet of fill containing demolition debris, household waste, and potential industrial waste. Included asbestos and lead sampling of the building.
#011.00040.E00

**Experience with previous employer.*

Evans Adhesive Corp
Columbus, Ohio | 2010
Conducted Phase I and Phase II ESAs of a 62,000 square foot industrial building used for production of adhesives.

Roscoe Village Inn
Coshocton, Ohio
A 40,000 square foot hotel, restaurant, and conference center built on a former canal. Included asbestos sampling of the building.

Nelson Ledges Road Race Course
Portage County, Ohio | 2008
Conducted Phase I and Phase II ESAs of a 106-acre site developed with a race course, two dump sites, fueling and maintenance facility, underground and above ground storage tanks, over 100 55-gallon drums, and an oil and gas well.

United Foundry
Youngstown, Ohio
A 15-acre site developed with multiple buildings used for manufacturing and industrial purposes since at least 1874.

Tipton Salvage Yard
Bellaire, Ohio
An unpermitted salvage yard and two houses for a highway improvement project.

Hills-Miller Road Water Main Extension
Delaware County, Ohio | 2008
Performed a limited Phase II environmental site assessment which included six borings and soil sampling for a proposed water main extension.

Air Commerce III
Louisville, Kentucky | 2017
Completed a Phase I ESA of a property consisting of 25 parcels and developed with a house and associated outbuildings. Historic research which included review of aerial photographs, topographic maps, and city directories indicated that between 15 and 20 residential structures and one commercial structure had been removed from the property. Records review indicated one adjacent site had been a former gasoline filling station and Kentucky Department for Environmental Protection files were reviewed. As a result of the findings a Phase II ESA was conducted that included test pit excavation, direct push borings, soil sampling and chemical analysis, and soil gas sampling and analysis to investigate the potential for impacts to the property from the adjacent former gasoline filling station.

**Experience with previous employer.*

CERTIFICATIONS (CONT'D)

- OSHA 40-Hr Hazardous Waste Operations and Emergency Response Training
- ODOT CE Training, 2015
- ODOT Purpose & Need Training, 2016
- ODOT Section 106/National Register Eligibility Training, 2010
- ODOT Section 4f/6f Training, 2016
- ODOT Managing the Environmental and Project Development Process Training, 2004
- ODOT NEPA Training, 2016
- ODOT Public Involvement, 2016
- Safeland Training, #PEC100674810, 2015

Asbestos-Containing Materials (ACM) Surveys

Ford Motor Company Sharonville Transmission Plant

Sharonville, Ohio | 2008-2016

Conducted an Initial Asbestos Survey and Annual Asbestos Risk Assessments of the 2.4-million ft^2 plant and 20 outbuildings including roofs and building exteriors. The surveys included reviewing previous asbestos reports; limited sampling and analysis for asbestos via polarized light microscopy (PLM), transmission electron microscopy (TEM), and point count; identifying ACM; accessing the condition of the ACM; estimating quantities of ACM; determining a priority ranking and response action for ACM; development of asbestos plans/drawings; and evaluating the ACM labeling and signage.

Ford Motor Company Kentucky Truck Plant

Louisville, Kentucky | 2015-2016

Conducted an Initial Asbestos Survey and Annual Asbestos Risk Assessments of the 5-million ft^2 assembly plant and 12 outbuildings including roofs and building exteriors. The surveys included reviewing previous asbestos reports; limited sampling and analysis for asbestos via PLM, TEM, and point count; identifying ACM; accessing the condition of the ACM; estimating quantities of ACM; determining a priority ranking and response action for ACM; development of excel summary spreadsheets, development of asbestos plans/drawings; and evaluating the ACM labeling and signage.

Ohio Department of Transportation (ODOT) District 7 Bridge Asbestos Surveys

Various Counties, Ohio | 2001-2002

Conducted asbestos surveys of 84 bridges for ODOT District 7. The bridges were to be replaced. Survey included sample collection, analysis of samples for asbestos, development of drawings, completion of notification of demolition and renovation forms, and report development.

South High Street Commercial Building

Columbus, Ohio | 2012

Conducted the ACM survey of a 9,600 ft^2 commercial building which is over 100 years old and has undergone multiple renovations. The purpose of the ACM survey was to renovate the structure for use as a restaurant. The project involved the assessment of the building materials, collection of samples for asbestos analysis and report development.

Grant Lab

Columbus, Ohio | 2014

Conducted an ACM Survey of a two-story, 8,600 ft^2 commercial building with basement constructed in 1912 for demolition. The project included identification of homogeneous areas (HAs) from the building, roof, and exterior areas; collections and analysis of building materials for asbestos; development of plans; and report preparation.

**Experience with previous employer.*

PROJECT ROLE
Senior Geologist

LOCATION
Knoxville, TN

EDUCATION
- BS, Geology, Murray State University, 1983
- AS, University of Kentucky, Hopkinsville, 1981

YEARS OF EXPERIENCE
Joined S&ME in 2006 with 22 years of previous experience

REGISTRATIONS
- Professional Geologist Tennessee (#0738) Kentucky (#0958)

CERTIFICATIONS
- IHMM Certified Hazardous Materials Manager (#14564)
- Ohio Environmental Protection Agency VAP Certified Professional #CP369
- Qualifying Agent for S&ME Tennessee Contractor License No. 034048

James R. Bruce, PG, CHMM

Senior Geologist

Mr. Bruce has over 27 years of experience in planning, executing, and managing environmental assessment and remediation projects. He also has experience implementing remediation designs he has prepared, as well as designs prepared by others. Mr. Bruce's work has included both government and private clients. He is experienced in facilitating interactions between owners, regulators, and other stakeholders during the assessment and remedial design process. Mr. Bruce has successfully managed many complex EPA-grant funded Brownfields Inventory and Assessment projects bringing them to completion on time and within budget.

Key Projects and Assignments

Verizon-Various Phase I ESA Sites
Tennessee | 2016-current

Verizon Tower and Small Cell Due Diligence Coordinator/Senior Reviewer for approximately 55 Phase I ESAs and Phase I ESA updates conducted for raw land and co-locate sites in Tennessee and Georgia. Work conducted includes communication with various stakeholders, including the client, site development professionals, engineering consultants, and legal teams for the coordination, implementation and Senior Review of the Phase I ESA reports. Projects include existing cell tower sites, undeveloped "greenfield" properties, and small-cell deployment sites.

Verizon-Various In-building Assessment Sites
Tennessee | 2016-current

Verizon Tower and Small Cell Due Diligence Coordinator/Senior Reviewer for approximately 125 In-building Assessments conducted for various site in central and east Tennessee, and southwest Virginia. Work conducted includes communication with various stakeholders and professionals for the coordination, implementation of asbestos, lead-based paint and other hazardous materials surveys, and Senior Review of the In-building Assessment reports.

Verizon-Various Visual Site Inspections Sites
Tennessee | 2016-current

Verizon Tower and Small Cell Due Diligence Coordinator/Senior Reviewer for approximately 11 Visual Site Inspections (VSIs) and 16 Limited Environmental Site Assessments conducted for various site in central and east Tennessee. Work conducted includes communication with various stakeholders and professionals for the coordination, implementation and Senior Review of the VSI reports.

Verizon-Various Phase II ESA and Soil Management Sites
Tennessee | 2016-current

Verizon Tower Due Diligence Coordinator/Project Manager for several Phase II ESA and Soil Management projects in central Tennessee. Work conducted

includes communication with various stakeholders and professionals for the SOW development, coordination and implementation.

City of Alcoa Former Municipal Building Demolition

Alcoa, Tennessee | 2016

Project Manager for the demolition of a former municipal building located in downtown Alcoa, Tennessee. Project components include development of the Project Manual (drawings, specifications, and construction contract) for the abatement of asbestos, removal of other hazardous materials, and demolition. Project responsibilities also include asbestos abatement specification preparation, asbestos abatement project air monitoring, and general demolition.

Miller Brewer Buildings Demolition

Harriman, Tennessee | 2014

Project Manager for the demolition of the three-story Miller Brewer Buildings located in downtown Harriman. Project components include development of the Project Manual (drawings, specifications, and construction contract) for the abatement of asbestos, removal of other hazardous materials, and demolition. Project responsibilities also include asbestos abatement specification preparation, asbestos abatement project air monitoring, and general demolition.

Soil and Groundwater Management – Chattanooga – St. Elmo Stormwater Improvement Project

Chattanooga, Tennessee | 2015-present

Project Manager for environmental and geophysical services for three proposed stormwater conveyances where shallow bedrock and foundry sands require special construction considerations. Project elements consisted of implementation of limited environmental soil and groundwater sampling from 53 borings to characterize soil and groundwater conditions relative to the 3000-foot alignment. This effort was also conducted to assemble relevant data necessary to provide recommendations for special handling and disposal of foundry-related materials as well as impacted soil and groundwater.

Concurrent with the Environmental investigation, S&ME performed six seismic refraction (SR) surveys and one multi-channel analysis of surface waves (MASW) survey along the accessible portions of the proposed new pipe route to evaluate the approximate rock depth between test boring locations. Project activities also included development of develop a Soil and Groundwater Management Plan to detail procedures pertaining to contractor worker protection, sediment and erosion control, best management practices, and waste management including on-site reuse, off-site relocation, permitting and disposal and full time on-site observation services to assist with general and site-specific foundry sand management activities as well as stormwater and groundwater management.