Phase I Environmental Site Assessment

GRC-Armstrong Test Facility (ATF) – North Plot

Taylor Road and Ransom Road

Sandusky, Erie County, Ohio

March 19, 2025 | Terracon Project No. N6247241

Prepared for:

Firelake - Arrowhead NASA Services
21000 Brookpark Road
Cleveland, Ohio

Prepared by:

Terracon Consultants, Inc.
Cleveland, Ohio

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March 19, 2025

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Attn: Mr. Ted Kemer
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Re: Phase I Environmental Site Assessment
GRC-Armstrong Test Facility (ATF) – North Plot
Taylor Road and Ransom Road
Sandusky, Erie County, Ohio
Terracon Project No. N6247241

Dear Mr. Kemer:

Terracon Consultants, Inc. (Terracon) is pleased to submit the enclosed Phase I Environmental Site Assessment (ESA) report for the above-referenced subject property (hereinafter known as the 'site'). This assessment was performed in accordance with Terracon Proposal No. PN6247241 dated July 3, 2024.

We appreciate the opportunity to be of service to you on this project. In addition to ESA services, our professionals provide other environmental, geotechnical, construction materials, and facilities services on a wide variety of projects locally, regionally, and nationally. For more detailed information on all of Terracon's services please visit our website at www.terracon.com. If there are any questions regarding this report or if we may be of further assistance, please do not hesitate to contact us.

Sincerely,

Terracon Consultants, Inc.

Kelly M. MacWhinnie
Project Manager

Stacy L. Baron-Vatty
Senior Associate
Department Manager – Due Diligence

Attachments

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Executive Summary

This Phase I Environmental Site Assessment (ESA) was performed in accordance with Terracon Proposal No. PN6247241 dated July 3, 2024, and was conducted consistent with the procedures included in ASTM E1527-21, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The purpose of this ESA was to assist the client in developing information to identify RECs in connection with the site as reflected by the scope of this report. The ESA was conducted under the supervision or responsible charge of Stacy L. Baron-Vatty, Environmental Professional. Kelly M. MacWhinnie performed the site reconnaissance on September 24, 2024.

Findings and Opinions

A summary of the findings is provided below. It should be recognized that details were not included or fully developed in this section, and the report must be read in its entirety for a comprehensive understanding of the items contained herein.

Site Description and Use

The approximately 870-acre site is bordered by Taylor Road to the southeast and by Ransom Road to the west in Sandusky (Perkins Township), Erie County, Ohio. The site consists of a portion of the NASA GRC at Neil A. Armstrong Test Facility (GRC-ATF) and is developed with several former test facility buildings and areas, currently utilized for storage and maintenance operations. Pentolite Road traverses the central portion of the site; Maintenance Road traverses the south portion of the site; Patrol Road traverses the north site boundary; Taylor Road traverses the southeast site boundary; and Ransom Road traverses the west site boundary. A large pond (Reservoir #1) is in the southeast portion of the site. The remainder of the site consists of wooded and brush-covered land, ditches, and marsh areas.

According to client-provided documentation and information obtained from the Erie County Auditor's website, the site is situated in the north-central portion of a larger 6,436.5667-acre parent parcel of land identified as PPN: 32-60001.000 currently owned by United States of America NASA.

Historical Information

Based on a review of historical information, in the early-1900s, two small structures, presumably dwellings, occupied the southeast corner of site, and ditches/drainageways traversed the central and east portions of the site. In the late-1930s, the site was occupied by brush-covered and wooded land, agricultural fields, and drainageways/ditches. Between 1938 and 1941, the U.S. Army established the site as "Plum Brook Ordnance

Works", utilized for the manufacturing of trinitrotoluene (TNT), 2,4-dinitrotoluene (DNT), and pentolite. TNT production was conducted from 1941 to 1945, after which buildings and production lines were decontaminated and decommissioned by the Army. In 1955, the National Advisory Committee for Aeronautics (NACA) acquired the site for the construction of a nuclear research reactor facility, which was transferred to NASA in 1958. According to the 2023 Leidos Final Records Review report, "NACA's original interest in the site was as a testing location for high-energy rocket engines and nuclear power systems. Other activities at NASA over the years have included the development of special pumps for space applications, rocket engine research, space vehicle testing, cryogenic testing, wind tunnel testing, and related aerospace research. The nuclear reactor research facility operated at the site until the early-2000s, at which time the nuclear reactor and associated facilities were decommissioned and razed. The site is currently occupied by 15 buildings, primarily utilized for storage and vehicle maintenance activities.

Records Review

The database report lists Plum Brook Ordnance Works / US NASA Plum Brook / NASA Neil A. Armstrong Test Facility located at 6100 Columbus Avenue (site and surrounding areas) as a Formerly Used Defense Site (FUDS), Division of Environmental Response and Revitalization (DERR), Voluntary Cleanup Program (VCP), VAPOR, Superfund Enterprise Management System (SEMS)-Archive, Corrective Action Report (CORRACTS), Resource Conservation and Recovery Act (RCRA)-Treatment, Storage, and Disposal Facility (TSDF), RCRA-Large Quantity Generator (LQG), 2020 Cor Action, PCB Activity Database System (PADS), Integrated Compliance Information System (ICIS), Facility Index System (FINDS), Enforcement and Compliance History (ECHO), Docket Hazardous Waste Compliance (HWC), and Manifest site. These listings are associated with the historical on-site and surrounding DoD facility and the current NASA facility which encompasses approximately 9,100-acres. Listings and associated environmental assessments limited to the site are summarized under the *Previous Reports* heading of this Executive Summary and are discussed in detail in Section 3.7 of this report.

There is one land use control (LUC), which is a sitewide groundwater use restriction at ATF that Ohio EPA required to closeout the FUDS site. According to Ms. Stacey Yanetta, client representative, "The LUC was inserted in the GRC Master Plan, but the LUC has not been added to title due to GSA policy that such LUCs be added through the property transfer process. Below is the text from the GRC Master Plan that describes the LUC:

> The remediation efforts at Neil A. Armstrong Test Facility (GRC-ATF) by NASA and the Army Corps of Engineers return most areas to residential clean-up standards, but the groundwater presents a costly and near impossible remedial action. Groundwater underlying GRC-ATF shall not be extracted or used for any purpose, potable or otherwise, except for

investigation, monitoring or remediation of groundwater, or in conjunction with construction or excavation activities or maintenance of subsurface utilities. Prior to transfer or conveyance of GRC-ATF or any portion thereof, the General Services Administration (GSA) and NASA shall ensure that the prospective purchaser or transferee: i) is aware of the environmental conditions of the property; and ii) agrees, as a condition of the purchase/transfer, to enter into an environmental covenant with the State of Ohio prohibiting the extraction or use of groundwater underlying GRC-ATF for any purpose potable or otherwise, except for investigation, monitoring or remediation of groundwater, or in conjunction with construction or excavation activities or maintenance of subsurface utilities. In addition, prior to transfer or conveyance of any portion of GRC-ATF that does not meet residential soil standards, GSA and NASA shall ensure that the prospective purchaser or transferee also agrees, as a condition of the purchase/transfer, that the environmental covenant with the State of Ohio shall also prohibit residential use of such property, in addition to the aforementioned groundwater extraction / use prohibition.

The existing LUC associated with a sitewide groundwater use restriction represents a Controlled Recognized Environmental Condition (CREC) to the site.

Several underground storage tanks (UST) systems were previously utilized at the site. Information available for the site from the Bureau of Underground Storage Tank Regulations (BUSTR) is included in the table below.

Table 1 – BUSTR USTs

Release Incident	Date	Location	USTs Removed	Status
229369-01; 22007802-N00001 / 22007802-N00002; 2200804-N00002	July 1989	Near Building 7132	9,000-gallon gasoline (Tank 7132-1) 9,000-gallon gasoline (Tank 7132-2) 9,000-gallon diesel (Tank 7132-3	No Further Action (NFA)
229369-02 / 22007804-N00001	July 1990	Former Building 7132	9,000-gallon diesel (Tank 36)	Closure (CLO)

Release Incident	Date	Location	USTs Removed	Status
229369-04, reassigned Incident #s 22-007802-03, 22007802-04, 22007802-06, 22007803-01, and 22007808-01	September 1989	East of Former Building 7121	3,000-gallon waste oil and solvent (Tank 28), 770-gallon toluene (Tanks 29, 30, 31), 1,500-gallon waste oil (Tank 32)	Further regulatory activity referred to OEPA due to solvent and waste oil contamination
229369-07 / 22007802-N00005	September 1989	Former Building 8133 Pump Station (SE portion of site)	250-gallon gasoline (Tank 39)	NFA
22007807-N00001	September 1989	Near Building 1121	500-gallon used oil, 7,900-gallon gas/diesel, 7,900-gallon waste oil and solvent	CLO
229369-10 / 22007805-N00001	February 1992	Building 8951	12,000-gallon jet fuel (Tank 37) 12,000-gallon jet fuel (Tank 38)	NFA
220007806-N00001	March 1993	Former Building 8133 Pump Station (SE portion of site)	250-gallon (contents unknown)	NFA
22007804-N00003 & 22007804-N00004	December 2002 and January 2023	East of Building 7132	8,000-gallon gasoline (closed in place), 8,000-gallon diesel	NFA

Remediation activities associated with Release Incident #229369-04, reassigned Incident #s 22-007802-03, 22007802-04, 22007802-06, 22007803-01, and 22007808-01 (Tanks 28, 29, 30, 31, and 32) are summarized under the *Previous Reports* heading of this Executive Summary and are discussed in detail in Section 3.7 of this report. Based on the BUSTR file review and current regulatory statuses (NFA), the remaining former USTs represent a HREC to the site. In addition, the existing closed-in-place UST located east of Building 7132 also represents a development consideration for the site. If construction activities are planned around the closed-in-place UST, Terracon recommends that the UST be removed in accordance with applicable regulations.

The remaining facilities listed in the database report do not appear to represent RECs to the site at this time based upon regulatory status, apparent topographic gradient, and/or distance from the site.

Previous Reports

The client provided Terracon with copies of several previous environmental reports completed for the site, including groundwater and subsurface assessments. In addition, a Final Records Review Report, which provides detailed summaries of all environmental remediation and closure activities that have occurred at the site, a Clean Closure Certification Report (Garage and Maintenance Area), and a Final Status Survey Report (Plum Brook Reactor Facility) were also provided by the client for review and are summarized below.

The 2023 Final Records Review Report provided detailed summaries of all environmental remediation and closure activities that have occurred by U.S. Army Corps of Engineers (USACE) as part of the Defense Environmental Restoration Program Formerly Used Defense Site (DERP-FUDS) program, which was established to address properties that have been contaminated by U.S. Department of Defense (DoD) activities. Since 1989, numerous soil and groundwater remediation projects have been conducted under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), the Resource Conservation and Recovery Act (RCRA), and the State of Ohio Division of State Fire Marshal's Bureau of Underground Storage Tank Regulations (BUSTR). While the Final Records Review Report includes an evaluation of approximately 6,436.5667-acres of NASA GRC-ATF, areas of evaluation/remediation limited to the site are summarized in the table below and are discussed in detail in Section 3.7 of this report.

Table 2 – NASA GRC-ATF Areas of Evaluation/Remediation

Project	Name	Location	Status
1817	Wastewater Treatment Plant #1	SE portion of site, along the north side of Maintenance Rd	Unrestricted use (residential) for soils, sediment, and surface water; insufficient yield for potable use for groundwater, no action recommended
1819	Pentolite Area Waste Lagoons (PAWL)	Central portion of site, along the north side of Pentolite Rd	NFA
1820	Red Water Ponds Area	SE portion of site, south of Pentolite Rd	NFA recommended

Project	Name	Location	Status
1821	Ash Pit #1	SE portion of site, along the south side of Maintenance Rd	NFA
1825	Garage Maintenance	South-central portion of site, along the north side of Maintenance Rd	NFA

Based on review of the Final Records Review Report and due to the current regulatory statuses (NFA and NFA recommended), historical operations associated with on-site DoD activities represent a historical recognized environmental condition (HREC) to the site. In addition, development considerations and business environmental risks associated with historic DoD operations include the following:

- Soil vapor evaluations have not been completed at on-site historical DoD areas listed above. Terracon considers this a development consideration for the site, and further evaluation would be recommended if development activities are planned in these areas.
- Below-grade concrete and utility infrastructure were left in place at various on-site historical DoD areas listed above. Terracon considers this a development consideration for the site, and further evaluation would be recommended if development activities are planned in these areas.
- Asbestos or ACM evaluations have not been completed at on-site historical DoD areas listed above. Terracon considers this a business environmental risk for the site.

The 2019 Clean Closure Certification Report was completed to establish that NASA reached clean closure for past activities at the Waste Management Unit (WMU) at Former Building 7121 (former USTs #28, #29, #30, and #31) and the WMU at Building 7131 (former UST #32). VOC contamination was identified in the area associated with the former use of UST systems and quarterly and annual groundwater sampling and monitoring occurred between 2004 and 2017. In addition, a Vacuum-Enhanced Groundwater Extraction (VEGE) system was utilized in the area between 2004 and 2009, and excavation and removal of contaminated soil and groundwater was completed. In 2018, a revised Amended Closure Plan (ACP) Version 7.0 and a Final Human Health Risk Assessment (HHRA) for Soil and Groundwater were submitted to the Ohio Environmental Protection Agency (OEPA). OEPA approved the ACP on November 23, 2018, and the HHRA on April 4, 2019. In their approval correspondence, OEPA stated that while the site achieved clean closure (no unacceptable health risk for potential future residential land use), “an environmental covenant will be implemented to restrict all future ground water use in the event of a property transfer.”

Based on this information, the environmental covenant associated with restriction of groundwater use represents a CREC to the site.

The 2012 Final Status Survey Report (FSSR) provided an overview of the characterization, surveying, and cleanup activities of the Plum Brook Reactor Facility, previously located in the central portion of the site, reviewed and evaluated by the Nuclear Regulatory Commission (NRC). In the report, the following conclusion is made:

- NASA demonstrated that the dose to a member of the critical group from residual radioactivity in sediments from Plum Brook is well below the dose criterion for unrestricted use in 10 CFR 20.1402. The goal of NASA is to release the facility for unrestricted use in compliance with the criteria in the US NRC 10CFR20 Subpart E regulation. The principal criterion is that the dose to future site occupants will be less than 25 mrem/y. Subpart E also requires that residual contamination be reduced to levels as low as reasonably achievable (ALARA). As described in the FSS Plan, the 25 mrem/y criterion is satisfied by collection of measurements to show that residual contamination levels are below Derived Concentration Guideline Levels (DCGLs). The DCGLs for residual contamination in soil and on structure surfaces have been established in accordance with the PBRF Final Status Survey Plan [NASA 2007].

A correspondence dated October 10, 2012, signed by Ms. Lydia Chang, Acting Deputy Director with the Decommissioning and Uranium Recovery Licensing Directorate, Division of Waste Management and Environmental Protection, Office of Federal and State Materials and Environmental Programs states that the NRC concluded that the decommissioning process is complete, has terminated the two licenses for the decommissioned NASA PBRF reactors, and has released the site for unrestricted use. Based on this information and due to the regulatory status (unrestricted closure), historical operations associated with the former on-site nuclear reactor facility represent a HREC to the site.

Site Reconnaissance

During the site reconnaissance, Terracon observed the following:

- Two “T”-shaped concrete patches” indicative of in-ground hydraulic lifts, were observed in the east portion of Building 7131 (Garage). Shop personnel believed the west lift had been removed, but components of the east lift could still be in place. Mr. Rick Bressler, Construction Manager with Firelake Construction, Inc., NASA Facilities Division (site representative) and shop personnel were unaware of the date of removal activities for the lifts or if any associated sampling activities had been completed. It is possible the in-ground lifts were utilized since construction of the building in 1943. The long-term use of the in-ground lifts and

potential releases of hazardous substances and/or petroleum products associated with the in-ground lifts and associated hydraulic components represents a REC to the site.

- An approximate 15' x 3' sub-grade mechanic pit was observed in the east portion of Building 7131 (Garage). Terracon was unable to view the interior of the mechanic pit during the site reconnaissance due to a wooden cover and vehicle positioning. It is possible the mechanic pit has been in use since construction of the building in 1943. The long-term use of the mechanic pit and potential releases of hazardous substances and/or petroleum products associated with vehicle repair activities within, and in the vicinity of the mechanic pit represents a REC to the site.

- A single-stall wash bay was observed in the central portion of Building 7131 (Garage). An approximate 10-foot-long trench drain was observed within the wash bay. According to Mr. Bressler, a previous dye test revealed that the trench drain discharges to a stormwater ditch situated north of the building. NASA personnel confirmed that the drain discharges to a ditch north of the building. It is possible the wash bay has been in use since construction of the building in 1943. The long-term use of the wash bay and potential releases of hazardous substances, including PFAS, and/or petroleum products associated with vehicle and equipment cleaning activities within the wash-bay and the associated stormwater ditch discharges represent a REC to the site.

Adjoining Properties

The site is bordered to the north by residential development, Sandusky Church of God, and an agricultural field; to the east by residential development and wooded and brush-covered land; to the south by GRAC-ATF substation and support building/power house (Buildings 8531 and 8562), GRC-ATF warehouse (Building 9206), GRC-ATF CCL Control Building (Building 2921), an exterior storage yard, and grass-covered, brush-covered, and wooded land; and to the west by wooded and grass-covered land. RECs associated with the site originating from current off-site operations were not identified.

Additional Services

Per the agreed scope of services, the following additional services as outlined in the proposal, including items described in Section 13.0 (Non-Scope Considerations) of ASTM E1527-21, were conducted:

- Visual observations for suspect asbestos
- Radon records review
- Visual observations for suspect lead-based paint

- Lead in drinking water records review
- Wetlands records review
- Threatened/endangered species records review
- Historic properties/archaeological resources review
- Visual observations for hazardous material items
- Review of per- and polyfluoroalkyl substances (PFAs)

Conclusions

We have performed a Phase I ESA consistent with the procedures included in ASTM Practice E1527-21 at the GRC-ATF – North Plot located at Taylor Road and Ransom Road in Sandusky, Erie County, Ohio, the site. The following REC, HRECs and CREC were identified in connection with the site:

- The in-ground lifts, maintenance pit, and wash bay located in Building 7131 – Garage represent a REC to the site, as the potential release of petroleum products and/or hazardous substances, including PFAS, associated with maintenance operations may have impacted the site.

- Historical on-site DoD operations and associated environmental remediation and closure activities represent a HREC to the site.

- Removal and closure activities associated with several former UST systems and one existing UST system (closed-in-place) issued NFA status from BUSTR represent a HREC to the site.

- Historical operations associated with the former on-site nuclear reactor facility represent a HREC to the site.

- The existing LUC associated with a sitewide groundwater use restriction represents a CREC to the site.

Soil vapor evaluations have not been completed at on-site historical DoD areas. Terracon considers this a development consideration for the site.

Below-grade concrete and utility infrastructure were left in-place at various on-site historical DoD areas. Terracon considers this a development consideration for the site.

Asbestos or ACM evaluations have not been completed at on-site historical DOD areas. Terracon considers this a business environmental risk for the site.

The existing closed-in-place UST system located east of Building 7132 (south central portion of site) represents a development consideration for the site.

1.0 Introduction

1.1 Site Description

Table 3 – Site Description

Site Name	GRC-ATF – North Plot
Site Location/Address	Taylor Road and Ransom Road
Parcel Numbers	#32-60001.000
Land Area	Approximately 870-acres
Site Improvements	Several storage and maintenance buildings (listed in Section 5.1), roadways, paved access drives and exterior storage areas, a large pond, and drainage ditches
Anticipated Future Site Use	Enhance Use Lease (EUL)
Reason for the ESA	Due diligence

The location of the site is depicted on Exhibit 1 of Appendix A, which was reproduced from portions of the 1969 Kimball, Ohio (OH) and 1979 Sandusky, OH United States Geologic Survey (USGS) 7.5-minute series topographic maps. The site and adjoining properties are depicted on the Site Diagram, which is included as Exhibit 2 of Appendix A.

1.2 Scope of Services

This Phase I Environmental Site Assessment (ESA) was performed in accordance with Terracon Proposal No. PN6247241 dated July 3, 2024, and was conducted consistent with the procedures included in ASTM E1527-21, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The purpose of this ESA was to assist the client in developing information to identify RECs in connection with the site as reflected by the scope of this report. Recognized environmental conditions are defined by ASTM E1527-21 as "(1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment." This ESA includes consideration of the movement of hazardous substances and petroleum products in any form, including migration of vapor in the subsurface. A de minimis condition is not a recognized environmental condition.

This purpose was undertaken through user-provided information, a regulatory database review, historical and physical records review, interviews (including local government

inquiries, as applicable), and a visual noninvasive reconnaissance of the site and adjoining properties. Limitations, ASTM deviations, and significant data gaps (if identified) are noted in the applicable sections of the report.

Review of Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS)

PFAS are a family of compounds which are considered emerging contaminants of concern due to their mobility and longevity in the environment. PFAS has been used in many products, including but not limited to fire-fighting foam, anti-stick coatings, stain and water-repellent coatings, electroplating, and paper products, among others. On July 8, 2024, US EPA designated two PFAS compounds, perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS), including their salts and structural isomers, as hazardous substances under CERCLA; accordingly, PFOA and PFOS was evaluated within the scope of E1527-21. Please note that PFAS compounds are ubiquitous in the environment and this limited review is not to be construed as confirmation that PFAS compounds are not present in, at or under the site.

1.3 Standard of Care

This ESA was performed in accordance with generally accepted practices of this profession, undertaken in similar studies at the same time and in the same geographical area. We have endeavored to meet this standard of care, but may be limited by conditions encountered during performance, a client-driven scope of work, or inability to review information not received by the report date. Where appropriate, these limitations are discussed in the text of the report, and an evaluation of their significance with respect to our findings has been conducted.

Phase I ESAs, such as the one performed at this site, are of limited scope, are noninvasive, and cannot eliminate the potential that hazardous, toxic, or petroleum substances are present or have been released at the site beyond what is identified by the limited scope of this ESA. In conducting the limited scope of services described herein, certain sources of information and public records were not reviewed. It should be recognized that environmental concerns may be documented in public records that were not reviewed. No ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. The performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs. No warranties, express or implied, are intended or made. The limitations herein must be considered when the user of this report formulates opinions as to risks associated with the site or otherwise uses the report for any other purpose. These risks may be further evaluated – but not eliminated – through additional research or assessment. We will, upon request, advise you of additional research or assessment options that may be available and associated costs.

1.4 Additional Scope Limitations, ASTM Deviations, and Data Gaps

Based upon the agreed-on scope of services, this ESA did not include subsurface or other invasive assessments, vapor intrusion assessments or indoor air quality assessments (i.e., evaluation of the presence of vapors within a building structure), business environmental risk evaluations, or other services not particularly identified and discussed herein. Credentials of the company (Statement of Qualifications) have not been included in this report but are available upon request. Pertinent documents are referred to in the text of this report, and a separate reference section has not been included. Reasonable attempts were made to obtain information within the scope and time constraints set forth by the client; however, in some instances, the information requested is not, or was not, received by the issuance date of the report. Information obtained for this ESA was received from several sources that we believe to be reliable; nonetheless, the authenticity or reliability of these sources cannot and is not warranted hereunder. This ESA was further limited by the following:

- Written and/or verbal inquiries were submitted to local agencies regarding the historic environmental use of the site. At the issuance of this report, records had not been received from the Erie County Health Department. The lack of a records review represents a data gap; however, based on other sources of information reviewed, it is not significant.

An evaluation of the significance of limitations and missing information with respect to our findings has been conducted, and where appropriate, significant data gaps are identified and discussed in the text of the report. However, it should be recognized that an evaluation of significant data gaps is based on the information available at the time of report issuance, and an evaluation of information received after the report issuance date may result in an alteration of our conclusions, recommendations, or opinions. We have no obligation to provide information obtained or discovered by us after the issuance date of the report, or to perform any additional services, regardless of whether the information would affect any conclusions, recommendations, or opinions in the report. This disclaimer specifically applies to any information that has not been provided by the client.

This report represents our service to you as of the report date and constitutes our final document; its text may not be altered after final issuance. Findings in this report are based upon the site's current utilization, information derived from the most recent reconnaissance and from other activities described herein; such information is subject to change. Certain indicators of the presence of hazardous substances, petroleum products or PFAS compounds may have been latent, inaccessible, unobservable, or not present during the most recent reconnaissance and may subsequently become observable (such as after site renovation or development). Further, these services are not to be construed as legal interpretation or advice.

1.5 Reliance

This ESA report is prepared for the exclusive use and reliance of Firelake - Arrowhead NASA Services and NASA. Use or reliance by any other party is prohibited without the written authorization of Firelake - Arrowhead NASA Services, NASA, and Terracon Consultants, Inc. (Terracon).

Reliance on the ESA by the client and all authorized parties will be subject to the terms, conditions and limitations stated in the proposal, ESA report, and Terracon's Agreement. The limitation of liability defined in the Agreement is the aggregate limit of Terracon's liability to the client and all relying parties.

Continued viability of this report is subject to ASTM E1527-21 Section 4.6. If the ESA will be used by a different user (third party) than the user for whom the ESA was originally prepared, the third party must also satisfy the user's responsibilities in Section 6 of ASTM E1527-21.

1.6 Client Provided Information

Prior to the site visit, Ms. Stacey Yanetta, client representative, was asked to provide the following user questionnaire information as described in ASTM E1527-21 Section 6:

Table 4 - Client Questionnaire Responses

Client Questionnaire Item	Client Did Not Respond	Client's Response		
		N/A*	Yes	No
Actual Knowledge of Environmental Liens that may encumber the site.				X
Actual Knowledge of Activity Use Limitations (AULs) that may encumber the site.			X	
Specialized Knowledge or Experience that is material to a REC in connection with the site.				X
Actual Knowledge of a Lower Purchase Price because contamination is known or believed to be present at the site.				X
Commonly Known or Reasonably Ascertainable Information that is material to a REC in connection with the site.				X
Obvious Indicators of Releases at the site.			X	

*N/A = Not Applicable

According to Ms. Yanetta, "there is one land use control (LUC), which is a sitewide groundwater use restriction at ATF that Ohio EPA required to closeout a FUDS site. The LUC was inserted in the GRC Master Plan, but the LUC has not been added to title due to

GSA policy that such LUCs be added through the property transfer process. Below is the text from the GRC Master Plan that describes the LUC:

> The remediation efforts at Neil A. Armstrong Test Facility (GRC-ATF) by NASA and the Army Corps of Engineers return most areas to residential clean-up standards, but the groundwater presents a costly and near impossible remedial action. Groundwater underlying GRC-ATF shall not be extracted or used for any purpose, potable or otherwise, except for investigation, monitoring or remediation of groundwater, or in conjunction with construction or excavation activities or maintenance of subsurface utilities. Prior to transfer or conveyance of GRC-ATF or any portion thereof, the General Services Administration (GSA) and NASA shall ensure that the prospective purchaser or transferee: i) is aware of the environmental conditions of the property; and ii) agrees, as a condition of the purchase/transfer, to enter into an environmental covenant with the State of Ohio prohibiting the extraction or use of groundwater underlying GRC-ATF for any purpose, potable or otherwise, except for investigation, monitoring or remediation of groundwater, or in conjunction with construction or excavation activities or maintenance of subsurface utilities. In addition, prior to transfer or conveyance of any portion of GRC-ATF that does not meet residential soil standards, GSA and NASA shall ensure that the prospective purchaser or transferee also agrees, as a condition of the purchase/transfer, that the environmental covenant with the State of Ohio shall also prohibit residential use of such property, in addition to the aforementioned groundwater extraction / use prohibition.

Based on this information and documentation reviewed throughout this report, the LUC associated with a sitewide groundwater use restriction represents a CREC to the site.

2.0 Physical Setting

Table 5 – Physical Setting Information

Physical Setting Information		Source
Topography		
Site Elevation	Approximately 625 to 640 feet above sea level	USGS Topographic Maps, Kimball & Sandusky, OH Quadrangles, 1969 & 1979 (Appendix A)
Topographic Gradient	The site varies in terrain and slopes generally north.	
Closest Surface Water	Plum Brook traverses the southeast site boundary. In addition, several ditches and potential wetlands occupy various site areas.	

Physical Setting Information		Source
Dominant Soil Characteristics		
Soil Type	Colwood loam, 0 to 1 percent slopes	USDA Soil Survey accessed September 23, 2024
Description	Parent Material: Glaciolacustrine deposits Properties and qualities Drainage Class: Very poorly drained Permeability: Moderately high	
Soil Type	Elnora loamy fine sand, 0 to 4 percent slopes	
Description	Parent Material: Glaciolacustrine deposits Properties and qualities Drainage Class: Moderately well drained Permeability: High	
Geology/Hydrogeology		
Formation	Delaware Limestone	USGS Mineral Resources Online Spatial Data, accessed September 23, 2024
Description	Devonian-aged limestone; gray to brown; thin to massive bedded; argillaceous partings, nodules and layers, carbonaceous, petroliferous odor; as much as 45-feet thick.	
Formation	Plum Brook Shale	
Description	Devonian-aged shale and argillaceous limestone; gray; thin bedded fossiliferous; 0 to 40 feet thick.	
Estimated Depth to First Occurrence of Groundwater	Approximately 3 to 10-feet bgs.	Ohio Department of Natural Resources (ODNR) Water Well Locator accessed September 19, 2024
*Hydrogeologic Gradient	Not known - may be inferred to be parallel to topographic gradient (primarily to the north).	

* The groundwater flow direction and the depth to shallow, unconfined groundwater, if present, would likely vary depending upon seasonal variations in rainfall and other hydrogeological features. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

3.0 Historical Use Information

Terracon reviewed the following historical sources to develop a history of the previous uses of the site and surrounding area, to help identify RECs associated with past uses. Copies of selected historical documents are included in Appendix C.

3.1 Historical Topographic Maps, Aerial Photographs, and Sanborn Maps

Readily available historical USGS topographic maps, selected historical aerial photographs (at approximately 10-to-15-year intervals) and historical fire insurance maps produced by the Sanborn Map Company were reviewed to evaluate land development and obtain information concerning the history of development on and near the site. Reviewed historical topographic maps and aerial photographs are summarized below.

Historical fire insurance maps produced by the Sanborn Map Company were requested from EDR to evaluate past uses and relevant characteristics of the site and surrounding properties. Based upon inquiries to the above-listed Sanborn provider, Sanborn maps covering the site were not found.

- Topographic maps:
  - Sandusky, OH, dated 1904 (1:62,500)
  - Sandusky, OH, dated 1959, 1969, 1979, 2013, 2016, and 2019 (1:24,000)
- Aerial photographs: 1937, 1960, 1969, 1977, 1983, 1988, 1995-1997, 2004, 2010, 2015, and 2019 (1” = 1,000’)

Table 6 - Historical Maps and Aerial Photographs

Direction	Description
Site	Two small structures, presumably dwellings, in southeast corner of site, and ditches/drainageways traversing the central and east portions of the site (1904); brush-covered and wooded land and agricultural fields (1937); the site area as being occupied by “Plum Brook Ordnance Works” with two buildings and a reservoir in the central portion of the site; several buildings and a railroad spur in the south portion of the site; a reservoir, small ponds, and small structures in the southeast portion of the site; railroad tracks, a railroad spur, and a small building in the west portion of the site; existing roadways; and intermittent drainageways and ditches, with the remainder of the site comprised of grass/brush-covered land and wooded land (1959-1960); the site area as being occupied by “National Aeronautics and Space Administration” (NASA), including the addition of several facilities buildings in the central portion of the site (associated with nuclear energy research and development), a nuclear reactor, a water tank, water tower, and an associated

Direction	Description
	parking lot; addition of two parking lots/exterior storage areas in the west portion of the site (1969-1997); railroad tracks /spurs as no longer being utilized/removed (2004); construction activities in central portion of site associated with decommissioning and demolition of nuclear reactor facilities and associated structures (2010); central buildings/structures as all being razed with the exception of existing Building 1121; marsh areas in central portion of site in area of former construction activities (2015); exterior storage areas and disturbed land in southeast portion of site, near reservoir and ponds (2019)
North	Two small structures, presumably dwellings (1904); several residential and farmstead properties and agricultural fields followed by West Bogart Road (1937); majority of the residential and farmstead structures as being razed and active and fallow agricultural fields (1960); addition of several residential dwellings to the northeast (1969); additional residential dwellings (1977-1997); existing residential development (2004-2019)
East	One small structure, presumably and dwelling and Taylor Road (1904); agricultural fields followed by residential and farmstead properties (1937-1983); additional residential development (1988-1997); additional residential development and the remaining agricultural field as going fallow (2004-2015); existing residential development and grass-covered and wooded land (2019)
South	One small structure, presumably a dwelling and portions of intermittent drainageways (1904); existing Plum Brook substation and support building/powerhouse, existing Plum Brook warehouse building, grass/brush-covered land, roadways, exterior storage areas, and disturbed land areas (1960-1995); construction of CCL control building (2004); existing buildings, exterior storage area, roadways, and grass/brush-covered land (2010-2019)
West	Undeveloped land (1904); wooded land and agricultural fields (1937); wooded land, grass covered land, and several small buildings/trailers/exterior storage areas (1960); wooded, brush-covered, and grass-covered land (1969-2019)

Terracon reviewed the above historical sources for indications of RECs associated with the site. RECs associated with the site were not identified through a review of available topographic maps and aerial photographs. Copies of selected historical documents are included in Appendix C.

3.2 Historical City Directories

The Polk's City Directory, Cole Information, and EDR Digital Archive city directories used in this study were made available through EDR (selected years reviewed: 1964 to 2020) and were reviewed at approximate five-year intervals, if readily available. Street listings were not available prior to 1992. The site has not been assigned a current street address.

Table 7 - Historical City Directories

Direction	Description
Site	Current street address not assigned
North	The site is currently, and has historically, been bordered to the north by residential development.
East	The site is currently, and has historically, been bordered to the east by residential development.
South	Current street address not assigned
West	The site is currently, and has historically, been bordered to the west by undeveloped wooded and grass/brush-covered land.

Terracon reviewed the above historical city directories for indications of RECs associated with the site. RECs associated with the site were not identified through a review of available historical city directories. Copies of selected historical city directories are included in Appendix C.

3.3 Site Ownership

According to client provided documentation and information obtained from the Erie County Auditor's website, the site is comprised of 870-acres situated in the north-central portion of a 6,436.5667-acre parent parcel of land identified as PPN: 32-60001.000 currently owned by United States of America NASA.

3.4 Title Search

Erie County Deed Records were reviewed by EDR of Shelton, Connecticut to obtain a chain-of-title for the site back to 1940. The title information is included in Appendix C.

Based on a review of the title provider's research, the current site owner is listed as United States of America, as listed in the table below:

Table 8 – Chain-of-Title

Chain	Transfer Type	Title Vested In	Title Received From	Date Executed
1	Warranty Deed	United States of America	Lawrence John Holkenborg and Nancy O. Holkenborg	April 5, 1971
2	Warranty Deed	United States of America	Paul B. Zorn and Florence G. Zorn	January 16, 1970
3	Deed	Lawrence John Holkenburg and Nancy	Frank J. Naderer and Mabel M. Naderer	December 15, 1961

Chain	Transfer Type	Title Vested In	Title Received From	Date Executed
4	Quit Claim Deed	Frank J. Naderer and Mabel M. Naderer	United States of America, acting by and through the Federal Farm Mortgage Company	June 6, 1950
5	Quit Claim Deed	Paul B. Zorn and Florence G. Zorn	United States of America, acting by and through the Federal Farm Mortgage Company	May 2, 1950
6	Warranty Deed	United States of America	Lloyd A. Hills and Nellie Hills; Morris E. Hills and Elsa M. Hills; Cora E. Mefferd and Louis P. Mefford; Clayton W. Hills and Frankie Hills	March 22, 1941
7	Warranty Deed	United States of America	Alphonse Fritz	March 10, 1941
8	Warranty Deed	United States of America	John J. Brogle and Doris I. Brogle	March 3, 1941
9	Warranty Deed	United States of America	John Macblain and Josephine Macblain	March 3, 1941
10	Unknown/Not Found	John Macblain and Josephine Macblain	Unknown/Not Found	Unknown/Not Found

The EDR 1940 Chain of Title report is included in Appendix C.

3.5 Environmental Liens and Activity and Use Limitations

At the direction of the client, performance of a review of environmental liens and activity and use limitations was included as part of the scope of services for which Terracon engaged EDR of Shelton, Connecticut. Based on a review of the title provider's research, environmental liens or activity and use limitations were not identified. In addition, the EDR regulatory database report included a review of both Federal and State Engineering Control (EC) and Institutional Control (IC) databases. Based on a review of the database report, the site was not listed on the EC or IC databases. The EDR Environmental Lien and AUL Search report is included in Appendix C.

3.6 Interviews Regarding Current and Historical Site Uses

The following individual was interviewed regarding the current and historical use of the site:

Table 9 – Interview

Interviewer	Interviewee	Title	Date
Kelly MacWhinnie	Rick Bressler	Construction Manager with Firelake Construction, Inc., NASA Facilities Division	September 24, 2024

Terracon conducted an interview with Mr. Richard Bressler, Construction Manager at Firelake Construction NASA Facilities Division. Mr. Bressler has been employed at the site since 2008. According to Mr. Bressler, the site was historically utilized by the Department of Defense (Dod) as a munitions complex in the 1940s prior to NASA acquiring the site in 1955. The site was utilized by NASA as a nuclear research center which included the construction and operation of a nuclear reactor at the site from the 1960s until 2010, when the reactor was decommissioned.

The site is currently primarily utilized for storage, shipping/receiving, and vehicle maintenance activities. Mr. Bressler was unaware of the former use of USTs or oil/water separator systems at the site, except for former UST systems located east of Building 7132, which he believed were removed and closed in-place in accordance with applicable regulations. These former USTs are listed in Section 4.1 of this report. Mr. Bressler was unaware of any pending, threatened or past environmental litigation, proceedings or notices of possible violations of environmental laws or liability or other potential environmental concerns in connection with the site. Additional interview remarks have been incorporated in Section 5.4 of this report.

3.7 Prior Report Review

The client provided Terracon with copies of several previous environmental reports completed for the site, including groundwater and subsurface assessments. In addition, a Final Records Review Report, which provides detailed summaries of all environmental remediation and closure activities that have occurred at the site, a Clean Closure Certification Report (Garage and Maintenance Area), and a Final Status Survey Report (Plum Brook Reactor Facility) were also provided by the client for review and are summarized below.

- Name of Report: Final Records Review Report

  Address of Site: National Aeronautics and Space Administration Neil A. Armstrong Test Facility
  Sandusky, Ohio

  Prepared for: NASA Glenn Research Center

  Prepared by: Leidos

  Date of Report: April 2023

The Final Records Review Report provided detailed summaries of all environmental remediation and closure activities that have occurred by U.S. Army Corps of Engineers (USACE) as part of the Defense Environmental Restoration Program Formerly Used Defense Site (DERP-FUDS) program, which was established to address properties that have been contaminated by U.S. DoD activities.

Since 1989, numerous soil and groundwater remediation projects have been conducted at the NASA GRC Lewis Field under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), the Resource Conservation and Recovery Act (RCRA), and the State of Ohio Division of State Fire Marshal's Bureau of Underground Storage Tank Regulations (BUSTR). While the Final Records Report includes an evaluation of approximately 9,100-acres of NASA GRC-ATF, areas of evaluation/remediation limited to the site are summarized in the table below:

Table 10 – NASA GRC-ATF Areas of Evaluation/Remediation

Project	Name	Location	Status
1817	Wastewater Treatment Plant #1	SE portion of site, along the north side of Maintenance Road	Unrestricted use (residential) for soils, sediment, and surface water; insufficient yield for potable use for groundwater, no action recommended
1819	Pentolite Area Waste Lagoons (PAWL)	Central portion of site, along the north side of Pentolite Road	NFA
1820	Red Water Ponds Area	SE portion of site, south of Pentolite Road	NFA recommended
1821	Ash Pit #1	SE portion of site, along the south side of Maintenance Road	NFA
1825	Garage Maintenance	South-central portion of site, along the north side of Maintenance Road	NFA

1817 – Wastewater Treatment Plant 1 with Wooden Sewer Lines

Project 1817 was completed to evaluate impacts associated with the operation of Wastewater Treatment Plants 1 and 3. Wastewater Treatment Plant 1 (WWTP1) was previously located in the southeast portion of site, along the north side of Maintenance Road Wastewater Treatment Plant 3 (WWTP3) was located off-site approximately 430-feet west of the west site boundary. Wastewater Treatment Plants 1 and 3 received water from TNT manufacturing operations. Wastewater transferred and received from the TNT manufacturing areas consisted of spent sulfuric acid, nitric acids, and red water from the

TNT purification process. Chemicals in the waste streams included sodium salts of sulfite, sulfate, nitrite, nitrate, sulfonates of unwanted TNT isomers, trinitrobenzoic acid, trinitrobenzaldehyde, trinitrobenzyl alcohol, nitrotoluenes, and dinitrotoluenes (DNTs).

- WWTP1 consisted of a raw waste storage tank, a caustic storage tank, a neutral storage tank, an equalization (EQ) tank, a condensate storage tank, an evaporator building, an incinerator, and a thick liquid storage tank (USACE 2000). The plant received wastewater from the TNT Area A and TNT Area B manufacturing settling basins through belowground wood stave pipes.

Previous investigations completed in the area include a Limited Subsurface Investigation (LSI) dated 1999, a Site Characterization Report (SCR) dated between 2008 and 2010, a Screening-Level Ecological Risk Assessment (SLERA) dated between 2008 and 2010, a Baseline Human Health Risk Assessment (BHHRA) dated 2011, and a Remedial Investigation (RI) dated 2013. The Final Records Review Report concluded the following regarding Project 1817:

- The selected final remedy for WWTP1 and WWTP3 achieved unrestricted use of the soils at WWTPs 1 and 3 (including TNT Area A/WWTP1 sewer lines and TNT Area B/WWTP1 sewer lines). No action was taken for remediation of groundwater due to its specified implausible use. Ohio EPA provided concurrence with the PCO in a letter dated November 3, 2017 (Ohio EPA 2017b). For the steel sewer lines, the RI reached a conclusion of NFA, and in an Ohio EPA letter dated April 5, 2017, the agency provided USACE with concurrence of the NFA recommendation for soil and groundwater associated with the steel sewer lines (Ohio EPA 2017a).

Items that require future consideration in the area include the following:

- VOCs have been detected in groundwater; however, no soil vapor evaluation was completed.
- Below-grade concrete and utility infrastructure were left in place and may be encountered as part of future construction activities.
- It is unknown whether the WWTPs were constructed using asbestos-containing materials (ACM). The buildings have been removed from the site, but an ACM evaluation was not completed as part of building demolition/removal. Asbestos samples were taken from surface soils at the site.
- Nuisance discolored water is a potential at WWTP1 and the associated sewer lines.

1819 - Pentolite Area Waste Lagoons (PAWL)

Project 1819 was completed to evaluate impacts associated with the operation of two settling basins that received wastewater via vitreous sewer pipes from each of the three stages of the pentolite manufacturing process in the early-1940s through 1945. Previous

subsurface investigations in the area included soil sampling completed in 1999, and an LSI completed in 2001. The Final Records Review Report concluded the following regarding project 1819:

- NFA was recommended at the PAWL, as presented in the Final Report Limited Site Investigation for the Former Plum Brook Ordnance Works Pentolite Area Waste Lagoons, Project Number G05OH001819, Sandusky, Ohio (USACE 2001). Ohio EPA, in a letter dated February 23, 2003, formally provided concurrence on the LSI recommendation for NFA.
- No additional items were identified for future consideration or investigation at the PAWL. Future site use is limited as the PAWL is collocated with the former Plum Brook Reactor Facility (PBRF) site. The PBRF has been decommissioned by NASA and restored to promote development of a wetland habitat. While NFA was attained for the PAWL, requirements associated with the PBRF decommissioning supersede those of the PAWL.

1820 – Red Water Ponds Area

The Red Water Ponds Area consists of two separate areas: the Pentolite Road Red Water Pond (PRRWP) Area and the West Area Red Water Ponds (WARWPs) Area. PRRWP is located in the southeast portion of the site, south of Pentolite Road. WARPW is located off-site, approximately 2,700-feet west of the southwest site boundary. To dispose of red water generated from the production of TNT, red water ponds were established in two locations at the former PBOW. These areas were known as Disposal Area 1, which is also known as Site B or the PRRWP (on-site), and Disposal Area 2, which is also known as Site A or the WARWPs (off-site). Previous investigations in the area include a Preliminary Investigation dated 1989, a Preliminary Assessment dated 1991, a Site Inspection dated 1993, a Focused RI (FRI) dated 1997, a Risk Assessment Direct Push Investigation (RADPI) dated 1998, a Human Health Risk Assessment (HHRA) and Ecological Risk Assessment (ERA) dated 2000, a Baseline Ecological Risk Assessment (BERA) dated 2001, and various groundwater assessments. According to the report, “The recommendation of NFA is presented in the Decision Document (DD) for the WARWP site. Remedial activities are complete at the PRRWP site; however, documentation of concurrence is outstanding. As both sites are tied to Project 1820, neither site has received a concurrence of NFA.” Items that may require future consideration at the area include the following:

- Infrastructure, including drain tiles, may remain in place and may be potential conduits for discolored water at NASA GRC-ATF. There was no documentation that the pipes were grouted or capped to mitigate water flow. Pipes that have been unearthed as part of remedial activities have been crushed to terminate potential conduits.

- Further evaluation of discolored groundwater discharge to surface water bodies may be warranted for the PRRWP site.

• Chemicals were detected in groundwater; however, the pathway was concluded to be incomplete. In the circumstance that groundwater becomes an exposure pathway, additional investigation may be warranted.

• Nuisance discolored water and discharge of nuisance discolored water to surface water is a potential at PRRWP.

• Composted soils were transported and stockpiled in an area designated for NASA future use. While not used as backfill at the PRRWP, treated soil may have the potential to generate discolored water and NASA should evaluate the location and use of the soil as a borrow pile.

• VOCs were detected at PRRWP; however, their concentrations were far below RBSC for ambient air. A subsurface soil to indoor air investigation is not recommended based on the HHRA as no VOCs were chosen as COPCs.

• The area was not evaluated for the presence of asbestos or ACM.

Terracon was provided a copy of a December 2023 *Final Discolored Water Treatment Technology Evaluation and Cost Analysis for NASA Neil A. Armstrong Test Facility Sandusky, Ohio*, prepared by Leidos. According to the report, "The occurrence of discolored water at GRC-ATF has been documented since TNT manufacturing in 1941. The discolored water has been characterized as non-hazardous, nuisance discolored water from Ohio EPA and NASA's previous analytical results. Releases from the PRRWP in 2018 resulted in a Notice of Violation (NOV) from Ohio EPA for release of nuisance discolored waters from NASA GRC at ATF." The NOV listed the following initial abatement actions to be taken: (1) Stop the discharge into the unnamed tributary from the tile and sheet flow, (2) Stop the discolored water from leaving NASA Plum Brook Station, (3) Remove the discolored water from Plum Brook, (4) Properly manage all impacted water that is collected, (5) Provide follow-up report, and (6) Prevent future releases. Following the 2018 NOV, NASA completed extensive remedial activities at the site including the construction of earthen dikes to prevent future runoff and the use of vacuum trucks to containerize discolored water. According to the report, red water has not been observed flowing off-site from the PRRWP site following the completion of remedial activities. In addition:

> A Permit to Install and a NPDES Permit Modification were submitted to allow NASA to filter and discharge any future occurrences of red water. The Permit to Install was approved by the Ohio EPA and allows the filtration of discolored surface water at Pentolite Ditch. The NPDES Permit Modification (2IO00002*MD) (Ohio EPA 2019) took effect on December 1, 2019 and provides the required sampling protocol if industrial wastewater is generated due to the filter treatment and discharge of red water within Outfall 017 (Pentolite Ditch and Plum Brook) at GRC-ATF (Leidos 2022). The current NPDES Permit (2IO00002*ND), active through September 2027, also provides these requirements.

Project 1821 – Ash Pit No. 1

Project 1821 was completed to evaluate impacts associated with the operation of Ash Pits No. 1 (AP1) and Ash Pit No. 3 (AP3). AP1 was in the southeast portion of site, along the south side of Maintenance Road. AP3 was located off-site, approximately 500-feet west of the southwest site boundary. During PBOW operations from 1941 to 1945, AP1 received coal ash slurry generated from coal-fired boilers in Powerhouse No. 1 (south adjoining the site). Coal-burning boilers at Powerhouse No. 1 were used to generate steam for space heating, driving compressors, and generating electrical power to support TNT manufacturing processes. Previous investigations completed in the AP1 area include an LSI dated 1999, a RI dated 2008 and 2009, and a BHRRA and SLERA dated 2011. Items that may require future consideration in the area include the following:

• VOCs have been detected in groundwater; however, no soil vapor evaluation was completed.

• Below-grade concrete and utility infrastructure were left in place and may be encountered as part of future construction activities.

• Chemicals were detected in groundwater; however, the pathway was concluded to be incomplete. In the circumstance that groundwater becomes an exposure pathway, additional investigation may be warranted.

1825 - Garage and Maintenance Area (Locomotive Building, Wash House, Sellite Area, Unloading Area)

Project 1825 was completed to evaluate impacts associated with historical operations associated with the Locomotive Building, Wash House, Sellite Area, and Unloading Area located in the south-central portion of the site. Historical operations in these areas include the following:

- Locomotive Building - “During PBOW operations from 1941 to 1945, the Locomotive Building was used for the maintenance of equipment, vehicles, and railcars. At the time PBOW was operational, a concrete work pit was built within this building to allow maintenance personnel to work below the locomotives and railcars and has been the focus of previous environmental studies.”

- Rail Car Washing Area (RCWA) – “During PBOW operations from 1941-1945, the RCWA consisted of a track that exited the eastern end of the Locomotive Building, which carried locomotives to a wash pit for railcar cleaning operations. The RCWA also was known as an acid area due to the acids used to wash the rail cars.”

- Sellite Area – “During PBOW operations, the Sellite Area was used for the production and storage of raw sellite which was used for the TNT washing process.”

- Unloading Area (ULA) – "…Located on the northern side of Maintenance Road, between Ransom Road and Taylor Road, and was used principally for unloading of toluene and possibly other chemicals from railcars. It is estimated that more than 400 million pounds of toluene may have been unloaded at this site during the PBOW operational period."

The Finals Records Review report concluded with the following regarding these areas:

- No action was recommended for sediment and surface water at all four GMA sites. No action was recommended soils for the LBA, RCWA, and ULA. The final remedy for the Sellite Area achieved unrestricted land use for soil. Ohio EPA issued concurrence of the Construction Completion Report for Remedial activities at the Sellite Area on January 23, 2020 (Ohio EPA 2020) and the project has been closed out by USACE. Additional considerations for the site may include:

  • Limited groundwater evaluation was performed. Chemicals were detected in groundwater; however, the pathway was concluded by USACE to be incomplete. In the circumstance that groundwater becomes an exposure pathway, additional investigation may be warranted.

  • VOCs were detected in soils and groundwater at the site; however, no soil vapor evaluation was completed.

  • Below-grade concrete and utility infrastructure were left in place and may be encountered as part of future construction activities.

  • The area was not evaluated for the presence of asbestos or asbestos or ACM.

Based on this information and due to the current regulatory statuses (NFA and NFA pending), historical operations associated with on-site DoD activities represent a historical recognized environmental condition (HREC) to the site.

1. Soil vapor evaluations have not been completed at on-site historical DoD areas listed above. Terracon considers this a development consideration for the site, and further evaluation would be recommended if development activities are planned in these areas.

2. Below-grade concrete and utility infrastructure were left in place at various on-site historical DoD areas listed above. Terracon considers this a development consideration for the site, and further evaluation would be recommended if development activities are planned in these areas.

3. Asbestos or ACM evaluations have not been completed at on-site historical DOD areas listed above. Terracon considers this a business environmental risk for the site.

- Name of Report: Clean Closure Certification Report
  Address of Site: Garage and Maintenance Area
  NASA Glenn Research Center at Plum Brook Station
  Sandusky, Ohio
  Prepared for: NASA Glenn Research Center
  Prepared by: Leidos
  Date of Report: August 2019

The Clean Closure Certification Report was completed by Leidos to establish that NASA reached clean closure for past activities at the Waste Management Unit (WMU) at Former Building 7121 (former underground storage tanks [USTs] #28, #29, #30, and #31) and the WMU at Building 7131 (former UST #32). According to the report, quarterly and annual groundwater sampling and monitoring occurred at the Garage and Maintenance Area between 2004 and 2013 to address VOC contamination. In addition, a Vacuum-Enhanced Groundwater Extraction (VEGE) system was utilized in the area between 2004 and 2009, at which time it was determined that the VEGE was not effective in reducing contamination. In 2013, a Corrective Measures Plan (CMP) was implemented, which included excavation and removal of contaminated soil and groundwater, and quarterly groundwater sampling continued to 2017. In 2018, a revised Amended Closure Plan (ACP) Version 7.0 and Final Human Health Risk Assessment (HHRA) for Soil and Groundwater were submitted to OEPA. The OEPA approved the ACP on November 23, 2018, and the HHRA on April 4, 2019. In their approval correspondence, OEPA stated that while the site achieved clean closure (no unacceptable health risk for potential future residential land use), "an environmental covenant will be implemented restrict all future ground water use in the event of a property transfer." Based on this information, the environmental covenant associated with restriction of groundwater use represents a Controlled Recognized Environment Condition (CREC) to the site.

- Name of Report: Final Status Survey Report
  Address of Site: Plum Brook Reactor Facility
  Sandusky, Ohio
  Prepared by: NASA
  Date of Report: 2012

The Final Status Survey Report (FSSR) provides an overview of the characterization, surveying, and cleanup activities of the Plum Brook Reactor Facility, previously located in the central portion of the site, reviewed and evaluated by the Nuclear Regulatory Commission (NRC). In the report, the following conclusion is made:

> NASA demonstrated that the dose to a member of the critical group from residual radioactivity in sediments from Plum Brook is well below the dose criterion for unrestricted use in 10 CFR 20.1402. The goal of NASA is to release the facility for unrestricted use in compliance with the criteria in the

US NRC 10CFR20 Subpart E regulation. The principal criterion is that the dose to future site occupants will be less than 25 mrem/y. Subpart E also requires that residual contamination be reduced to levels as low as reasonably achievable (ALARA). As described in the FSS Plan, the 25 mrem/y criterion is satisfied by collection of measurements to show that residual contamination levels are below Derived Concentration Guideline Levels (DCGLs). The DCGLs for residual contamination in soil and on structure surfaces have been established in accordance with the PBRF Final Status Survey Plan [NASA 2007].

A correspondence dated October 10, 2012, signed by Ms. Lydia Chang, Acting Deputy Director with the Decommissioning and Uranium Recovery Licensing Directorate, Division of Waste Management and Environmental Protection, Office of Federal and State Materials and Environmental Programs states that the NRC concluded that the decommissioning process is complete, has terminated the two licenses for the decommissioned NASA PBRF reactors, and has released the site for unrestricted use. Based on this information and due to the regulatory status (unrestricted closure) historical operations associated with the former on-site nuclear reactor facility represent a HREC to the site.

4.0 Records Review

Regulatory database information was provided by EDR, a contract information services company in a report dated September 16, 2024. The purpose of the records review was to identify RECs in connection with the site. Information in this section is subject to the accuracy of the data provided by the information services company and the date at which the information is updated. The scope herein did not include confirmation of facilities listed as "unmappable" by regulatory databases.

In some of the following subsections, the words up-gradient, cross-gradient, and down-gradient refer to the topographic gradient in relation to the site. As stated previously, the groundwater flow direction and the depth to shallow groundwater, if present, would likely vary depending upon seasonal variations in rainfall and the depth to the soil/bedrock interface. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

4.1 Federal and State/Tribal Databases

Terracon reviewed standard federal, state, and tribal environmental record sources within the approximate minimum search distances as required by ASTM E1527-21 and presented in Table 2 of Section 8.0 of The Standard (Types of Government Records to be Reviewed). Further, to enhance and supplement the standard environmental record sources, Terracon reviewed additional federal, state, tribal, local, and proprietary environmental record

sources, provided by the database firm, if potentially useful and reasonably ascertainable. Please refer to Appendix D (the environmental regulatory database report) for the number of listings within each database reviewed and database definitions and descriptions.

Due to conversion of address data to location coordinates and the accuracy of government records, the facility locations depicted in the environmental regulatory database report may not match actual physical locations. As such, Terracon attempted to field-verify the actual distances of facilities of concern from the site.

The following table summarizes the site-specific information provided by the database and/or gathered by this office for identified facilities within 500-feet of the site. Facilities are listed in order of proximity to the site. An additional discussion of selected facilities follows the summary table.

Table 11 - Federal and State/Tribal Databases Listed Facilities

Facility Name and Location	Estimated Distance / Direction / Gradient	Database Listings	Findings Summary
Plum Brook Ordnance Works / US NASA Plum Brook / NASA Neil A. Armstrong Test Facility 6100 Columbus Avenue	Site, and surrounding areas	FUDS, DERR, VCP, VAPOR, SEMS-Archive, CORRACTS, RCRA-TSDF, RCRA-LQG, 2020 Cor Action, PADS, ICIS, FINDS, ECHO, Docket HWC, Manifest	HREC, CREC

The database report lists Plum Brook Ordnance Works / US NASA Plum Brook / NASA Neil A. Armstrong Test Facility located at 6100 Columbus Avenue (site and surrounding areas) as a Formerly Used Defense Site (FUDS), Division of Environmental Response and Revitalization (DERR), Voluntary Cleanup Program (VCP), VAPOR, Superfund Enterprise Management System (SEMS)-Archive, Corrective Action Report (CORRACTS), Resource Conservation and Recovery Act (RCRA)-Treatment, Storage, and Disposal Facility (TSDF), RCRA-Large Quantity Generator (LQG), 2020 Cor Action, PCB Activity Database System (PADS), Integrated Compliance Information System (ICIS), Facility Index System (FINDS), Enforcement and Compliance History (ECHO), Docket Hazardous Waste Compliance (HWC), and Manifest site. These listings are associated with the historical on-site and surrounding DoD facility and current NASA facility which encompasses 6,436.5667-acres. Listings limited to the site area were previously discussed in Section 3.7 of this report.

Several underground storage tanks (UST) systems were previously utilized at the site. Information available for the site from the Bureau of Underground Storage Tank Regulations (BUSTR) included the following UST information:

Table 12 - BUSTR USTs

Release Incident	Date	Location	USTs Removed	Status
229369-01; 22007802-N00001 / 22007802-N00002; 2200804-N00002	July 1989	Near Building 7132	9,000-gallon gasoline (Tank 7132-1) 9,000-gallon gasoline (Tank 7132-2) 9,000-gallon diesel (Tank 7132-3	No Further Action (NFA)
229369-02 / 22007804-N00001	July 1990	Former Building 7132	9,000-gallon diesel (Tank 36)	Closure (CLO)
229369-04, reassigned Incident #s 22-007802-03, 22007802-04, 22007802-06, 22007803-01, and 22007808-01	September 1989	East of Former Building 7121	3,000-gallon waste oil and solvents (Tank 28), 770-gallon toluene (Tanks 29, 30, 31), 1,500-gallon waste oil (Tank 32)	Further regulatory activity referred to OEPA due to solvent and waste oil contamination
229369-07 / 22007802-N00005	September 1989	Former Building 8133 Pump Station (SE portion of site)	250-gallon gasoline (Tank 39)	NFA
22007807-N00001	September 1989	Near Building 1121	500-gallon used oil, 7,900-gallon gas/diesel, 7,900-gallon waste oil solvent	CLO
229369-10 / 22007805-N00001	February 1992	Building 8951	12,000-gallon jet fuel (Tank 37) 12,000-gallon jet fuel (Tank 38)	NFA
220007806-N00001	March 1993	Former Building 8133 Pump Station (SE portion of site)	250-gallon (contents unknown)	NFA

Release Incident	Date	Location	USTs Removed	Status
22007804-N00003 & 22007804-N00004	December 2002 and January 2023	East of Building 7132	8,000-gallon gasoline (closed in place), 8,000-gallon diesel	NFA

Remediation activities associated with Release Incident #229369-04, reassigned Incident #s 22-007802-03, 22007802-04, 22007802-06, 22007803-01, and 22007808-01 (Tanks 28, 29, 30, 31, and 32) were previously discussed in Section 3.7 of this report. Based on the BUSTR file review and current regulatory statuses (NFA), the remaining former USTs represent a HREC to the site. In addition, the existing closed-in-place UST located east of Building 7132 also represents a development consideration for the site. If construction activities are planned around the closed-in-place UST, Terracon recommends that the UST be removed in accordance with applicable regulations.

The remaining facilities listed in the database report do not appear to represent RECs to the site at this time based upon regulatory status, apparent topographic gradient, and/or distance from the site.

Unmapped facilities are those that do not contain sufficient address or location information to evaluate the facility listing locations relative to the site. The report listed seven facilities in the unmapped section. Determining the location of unmapped facilities is beyond the scope of this assessment. Two of the facilities, AI Research Manufacturing and NASA John H. Glen Research Center, Plum Brook Station were listed in the unmapped Section associated with the site. Historical operations associated with the site were previously discussed in Section 3.7 of this report. The remaining facilities were not identified as the site or adjacent properties. These facilities are listed in the database report in Appendix D.

4.2 Local Agency Inquiries

Table 13 – Local Agency Inquiries

Agency Contacted/ Contact Method	Response
Perkins Township Community Development Department E: jgladwell@perkinstownship.com	On October 9, 2024, Terracon received a response from Mr. Adam Panas, Planning/Zoning Inspector. According to Mr. Panas, Perkins Township does not maintain building records for the NASA facility.

Agency Contacted/ Contact Method	Response
Perkins Township Fire Department E: dmurphy@perkinstownship.com	On October 8, 2024, Terracon received a response from Fire Marshal Keith Eastman. Fire Marshal Eastman indicated his department maintains Tier II reports for the site which identified one diesel UST containing 25,000-49,999 pounds, one 4,000-gallon AST containing E-85, one gasoline UST containing 25,000-49,999 pounds, and an AST for Liquid Hydrogen. Fire Marshal Eastman did not have records of responses for spills at the facility and he was unaware of any in the 30 years he has been employed in the department. Fire Marshal Eastman stated the site burns undergrowth and dead vegetation annually. In addition, Fire Marshal Eastman stated the facility once had a nuclear reactor on-site, which was removed and remediated in the early-2000s. Environmental concerns not previously discussed were not identified during the records review.
Erie County Health Department E: echd@eriecohealthohio.org	At the issuance of this report, a response had not been received from Erie County Health Department.
Erie County Environmental Services E: bfleck@eriecounty.oh.gov	On October 8, 2024, Terracon received a response from Mr. Bill Fleck, Environmental Specialist. According to Mr. Fleck, there are no records available for the site.

5.0 Site Reconnaissance

5.1 General Site Information

Information contained in this section is based on a visual reconnaissance conducted while walking through the site and the accessible interior areas of structures, if any, located on the site. The site and adjoining properties are depicted on the Site Diagram, which is included in Exhibit 2 of Appendix A. The Site Building and Structures Map is included as Exhibit 3 of Appendix A. Photo documentation of the site at the time of the visual reconnaissance is provided in Appendix B. Credentials of the individuals planning and conducting the site visit are included in Appendix E.

Table 14 - General Site Information

Site Reconnaissance	
Field Personnel	Kelly M. MacWhinnie and Craig W. Thompson
Reconnaissance Date	September 24, 2024
Weather Conditions	Approximately 70° Fahrenheit with partly cloudy skies and light rain
Site Contact/Title	Mr. Rick Bressler, Construction Manager with Firelake Construction, Inc., NASA Facilities Division

Site Reconnaissance				
Building Description				
Building Identification	Building Use	Approx. Construction Date	Number of Stories	Approx. Size (ft²)
9209 - Warehouse	Shipping & Receiving	1943	One, with lofted space	9,991
9210 - Warehouse	Storage	1943	One	6,006
9217 - Warehouse	Storage	2011	One	8,000
7123 – Locomotive Shop	Storage	1943	One, with vaulted ceiling	5,810
7143 – Chemical Laboratory	Laboratory (vacant of current operations)	1943	One	2,004
9208 – Warehouse	Carpenter shop	1943	One	1,234
7133 – Vehicle Service Station Building	Storage – Fueling operations	2009	One	109
7122 – Carpenter Shop	Storage	1943	One, with lofted space	9,269
7131 - Garage	Vehicle repair and maintenance	1943	One	6,386
7146 – Salt Storage Building	Salt storage for winter roadway maintenance	2007	One	576
9201 - Warehouse	Storage	1943	One	4,440
9202 - Warehouse	Storage	1958	One	4,440
1121 - Reactor Assembly Test and Storage Building	Storage	1966	Three, with a basement	24,126
8631 – Comm Hub Building #1	Fiber and communications receiving	2020	One	150
Gas Meter House (Reactor Area)	Natural gas equipment	1960	One	294

Site Utilities	
Drinking Water	Erie County
Wastewater	Erie County
Electric	Columbia Gas
Natural Gas	FirstEnergy

5.2 Overview of Current Site Occupants

The approximately 870-acre site is bordered by Taylor Road to the southeast and by Ransom Road to the west in Sandusky (Perkins Township), Erie County, Ohio. The site consists of a portion of the NASA GRC-ATF and is developed with several former test facility buildings and areas, currently utilized for storage and maintenance operations. Pentolite Road traverses the central portion of the site; Maintenance Road traverses the south portion of the site; Patrol Road traverses the north site boundary; Taylor Road traverses the southeast site boundary; and Ransom Road traverses the west site boundary. A large pond (Reservoir #1) is in the southeast portion of the site. The remainder of the site consists of wooded and brush-covered land, ditches, and marsh areas.

5.3 Overview of Current Site Operations

The site is primarily utilized for storage. A shipping and receiving building occupies the south portion of the site and vehicle maintenance and storage buildings occupy the south central-portion of the site. Two storage buildings and a former reactor assembly and testing warehouse, also currently utilized for storage, occupy the central portion of the site.

5.4 Site Observations

The following table summarizes site observations and interviews. Affirmative responses (designated by an “X”) are discussed in more detail following the table.

Table 15 - Site Characteristics

Category	Item or Feature	Observed or Identified
Site Operations, Processes, and Equipment	Emergency generators	X
	Elevators	
	Air compressors	X
	Hydraulic lifts	X

Category	Item or Feature	Observed or Identified
	Dry cleaning	
	Photo processing	
	Ventilation hoods and/or incinerators	X
	Waste treatment systems and/or water treatment systems	
	Heating and/or cooling systems	X
	Paint booths	
	Sub-grade mechanic pits	X
	Wash-down areas or carwashes	X
	Pesticide/herbicide production or storage	
	Printing operations	
	Metal finishing (electroplating, chrome plating, galvanizing, etc.)	
	Salvage operations	
	Oil, gas, or mineral production	
	Other processes or equipment	
Aboveground Chemical or Waste Storage	Aboveground storage tanks	X
	Drums, barrels, and/or containers ≥ 5 gallons	X
	MSDS or SDS	
Underground Chemical or Waste Storage, Drainage or Collection Systems	Underground storage tanks or ancillary UST equipment	
	Sumps, cisterns, French drains, catch basins, and/or dry wells	X
	Grease traps	
	Septic tanks and/or leach fields	
	Oil/water separators, clarifiers, sand traps, triple traps, interceptors	
	Pipeline markers	
	Interior floor drains	X
Electrical Transformers/PCBs	Transformers and/or capacitors	X
	Other equipment	
Releases or Potential Releases	Stressed vegetation	
	Stained soil	
	Stained pavement or similar surface	

Category	Item or Feature	Observed or Identified
	Leachate and/or waste seeps	
	Trash, debris, and/or other waste materials	
	Dumping or disposal areas	X
	Construction/demolition debris and/or dumped fill dirt	X
	Surface water discoloration, odor, sheen, and/or free-floating product	
	Strong, pungent, or noxious odors	
	Exterior pipe discharges and/or other effluent discharges	
Other Notable Site Features	Surface water bodies	X
	Quarries or pits	
	Wastewater lagoons	
	Wells	X

Site Operations, Processes, and Equipment

Emergency generators

One natural gas-fired pad-mounted generator system was observed along the west exterior wall of Building 7143 (Chemical Laboratory). The generator system appeared to be in good condition and evidence of leaks and/or staining was not observed in the vicinity of the generator system during the site reconnaissance. The generator system does not represent a REC to the site.

Air compressors

One air compressor was observed in Building 9208 (Warehouse) and one air compressor was observed in Building 7131 (Garage). The air compressors appeared to be in good condition and evidence of leaks and/or staining was not observed in the vicinity of the air compressors during the site reconnaissance. The air compressor do not represent a REC to the site.

Hydraulic lifts

Two “T”-shaped concrete patches” indicative of in-ground hydraulic lifts, were observed in the east portion of Building 7131 (Maintenance Shop). Shop personnel believed the west lift had been removed, but components of the east lift could still be in place. Mr. Bressler and shop personnel were unaware of the date of removal activities for the lifts or if any associated sampling activities had been completed. It is possible the in-ground lifts were utilized since construction of the building in 1943. The long-term use of the in-ground lifts

and potential releases of hazardous substances and/or petroleum products associated with in-ground lifts and associated hydraulic components represents a REC to the site.

Ventilation hoods and/or incinerators

Three chemical fume hoods were observed in Building 7143 (Chemical Laboratory). According to Mr. Rick Bressler, Building 7143 has been vacant of operations for approximately five years. Environmental concerns were not identified associated with the chemical fume hoods during the site reconnaissance. The chemical fume hoods do not represent a REC to the site.

Heating and/or cooling systems

Heating and cooling systems for the on-site buildings are as follows:

Table 16 – Heating and Cooling Systems

Building Identification	Heating	Cooling
9209 - Warehouse	Natural gas-fired furnace and overhead units	Exterior pad-mounted unit
9210 - Warehouse	Natural gas-fired overhead units	None observed
9217 - Warehouse	None observed	Electric overhead fans
7123 – Locomotive Shop	Natural gas-fired overhead units (not in use)	None observed
7143 – Chemical Laboratory	Natural gas-fired furnace	Exterior pad-mounted unit
9208 – Warehouse	Natural gas-fired overhead units	None observed
7133 – Vehicle Service Station Building	None observed	
7122 – Carpenter Shop	Natural gas-fired overhead units (not in use)	None observed
7131 - Garage	Natural gas-fired furnace and overhead units	Exterior pad-mounted unit
7146 – Salt Storage Building	None observed	
9201 - Warehouse	None observed	
9202 - Warehouse	None observed	
1121 - Reactor Assembly Test and Storage Building	Natural gas-fired boiler system and overhead units	None observed

8631 – Comm Hub Building #1	None observed	Exterior pad-mounted unit
8432 - Gas Meter House (Reactor Area)	None observed	

Environmental concerns were not observed with the heating/cooling systems during the site reconnaissance. The heating/cooling systems do not represent a REC to the site.

Sub-grade mechanic pits

An approximate 15' x 3' sub-grade mechanic pit was observed in the east portion of Building 7131 (Garage). The mechanic pit is utilized by garage personnel to assist with automotive repair activities. Terracon was unable to view the interior of the mechanic pit during the site reconnaissance due to a wooden cover and vehicle positioning. It is possible the mechanic pit has been in use since construction of the building in 1943. The long-term use of the mechanic pit and potential releases of hazardous substances and/or petroleum products associated with vehicle repair activities within, and in the vicinity of the mechanic pit represents a REC to the site.

Wash-down areas or carwashes

A single-stall wash bay was observed in the central portion of Building 7131 (Garage). An approximate 10-foot-long trench drain was observed within the wash bay. The wash bay is utilized by garage personnel for wash down of various vehicles/equipment. According to Mr. Rick Bressler, a previous dye test revealed that the trench drain discharges to a stormwater ditch situated north of the building. NASA personnel confirmed that the drain discharges to a ditch north of the building. It is possible the wash bay has been in use since construction of the building in 1943. The long-term use of the wash bay and potential releases of hazardous substances, including PFAS, and/or petroleum products associated with vehicle and equipment cleaning activities within the wash-bay and the associated stormwater ditch discharges represent a REC to the site.

Aboveground Chemical or Waste Storage

Aboveground storage tanks

One 4,000-gallon steel gasoline AST and one 6,000-gallon steel diesel AST were observed on a concrete pad in the south-central portion of the site, east of Building 7133 (Vehicle Service Station Building). The gasoline AST was installed around 2011, and the diesel AST was installed in late 2023-early 2024. The ASTs appeared to be in good condition and evidence of leaks and/or staining was not observed in the vicinity of the ASTs during the site reconnaissance. The ASTs do not represent a REC to the site.

Drums, barrels, and/or containers ≥ 5 gallons

The following drums, barrels, and/or containers were observed during the site reconnaissance:

Table 17 – Drums, Barrels, and/or Containers

Location	Capacity, Type	Contents	Leaks/staining observed?
9209 - Warehouse	55-gallon, Plastic drum	Propylene glycol	None observed, secondary containment
9209- Warehouse (exterior on metal storage racks)	33-pound, Metal tanks (25)	Propane	None observed
9210 - Warehouse	55-gallon, Steel drums (4)	AEGIS 124A	None observed, secondary containment
	5-gallon, Plastic containers (4)	AEGIS 179B	
9217 - Warehouse	250-gallon, Plastic totes (2)	Heat transfer fluid, currently empty	None observed
	5-gallon, Plastic and metal containers	Joint lubricant	None observed
9208 - Warehouse	5-gallon, Plastic and metal containers (15)	Joint compound, paint, and stain	None observed
7122 – Carpenter Shop	55-gallon, Metal drums (3)	Kerosene and tractor fluid	None observed, secondary containment
	5-gallon, Plastic container	Concrete repair	
7131 - Garage	55-gallon, Metal drums (2)	Tractor fluid and power washer soap	None observed, secondary containment
	35-55-gallon, Metal drums (4)	New and used oil	None observed, secondary containment
	20-gallon, Metal drums	Lubricant	None observed, secondary containment
	5-gallon, Metal and plastic containers (5)	Used gas, spent solvent, and rags	None observed

A self-contained parts washer was also observed in Building 7131 (Garage). Environmental concerns were not observed associated with the drums, barrels, and/or containers or parts washer during the site reconnaissance. The drums, barrels, and/or containers and parts washer do not represent a REC to the site.

Underground Chemical or Waste Storage, Drainage or Collection Systems

Sumps, cisterns, French drains, catch basins, and/or dry wells

Sump systems were observed in Building 7123 (Locomotive Shop) and in the basement of Building 1121 (Reactor Assembly Test and Storage Building). Mr. Bressler was unaware if the sumps were functional. Evidence of staining was not observed in the vicinity of the sump systems during the site reconnaissance. The sump systems do not represent a REC to the site.

Interior floor drains

Interior floor drains were observed in various on-site buildings and in restroom areas of buildings. Mr. Bressler believed that all interior floor drains discharge to the public sanitary system, except for the trench drain located in the wash bay within Building 7131 (Garage), previously disused above. Evidence of leaks and/or staining was not observed in the vicinity of the floor drains during the site reconnaissance. The interior floor drains do not represent a REC to the site.

Electrical Transformers/PCBs

Transformers and/or capacitors

The following transformers were observed on-site during the reconnaissance:

Table 18 – Transformers

Location	Type	PCB Labeling	Leaks/staining observed?
7123 - Locomotive Shop	Interior, mounted-labeled as being “Out of Service”	None observed	None observed
7131 - Garage	Interior, mounted	None observed	None observed
East exterior of 1121 - Reactor Assembly Test and Storage Building	Pad-mounted	None observed	None observed
Various locations, primarily along roadways near buildings	Pole-mounted, several	None observed	None observed

The transformers were not labeled regarding PCB content; however, evidence of leaks and/or staining was not observed in the vicinity of the transformers during the site

reconnaissance. Some transformers contain mineral oil which may contain PCBs. FirstEnergy maintains responsibility for the transformers, and if the transformers were "PCB contaminated," FirstEnergy is not required to replace the transformer fluids until a release is identified. The transformers do not represent a REC to the site.

Releases or Potential Releases

Dumping or disposal areas

Two approximate 15-cubic yard roll-off dumpsters were observed in the south-central portion of the site; one 2-cubic yard dumpster was observed south of Building 7131 (Garage), and one approximate 30-cubic yard roll-off dumpster was observed east of Building 9202 (Warehouse). The dumpsters are serviced by Waste Management on an as-needed basis and were observed to contain various cardboard, plastic, and general refuse. Environmental concerns (i.e., noxious odors, hazardous materials dumping, leaks and/or staining) were not observed associated with the dumpsters during the site reconnaissance. The dumpsters do not represent a REC to the site.

Construction/demolition debris and/or dumped fill dirt

An exterior storage area containing various metal scrap materials, parts, and portable ASTs was observed in the southwest portion of the site, east of Ransom Road and north of Maintenance Road. An additional exterior storage area containing several plastic garbage cans, various metal scrap materials, and logged trees was observed in the west portion of the site, along the north side of Pentolite Road. Terracon also observed construction and demolition debris consisting of concrete piping and building materials, gravel piles, and broken asphalt piles located in the central portion of the site, around the former nuclear reactor facilities. Environmental concerns (i.e., noxious odors, hazardous materials dumping, leaks and/or staining) were not observed associated with the exterior storage areas or construction/demolition debris during the site reconnaissance. The exterior storage areas and construction/demolition debris do not represent a REC to the site.

Other Notable Site Features

Surface water bodies

A large pond, identified as Reservoir #1, and a circular concrete foundation filled with water were observed in the southeast portion of the site. According to Mr. John Brodt, Environmental Engineer with NASA Glenn Research Center, "historically, Reservoir #1 provided raw water for fire suppression (water was pumped to a water tower to maintain pressure), used for filling the In Space Propulsion facility test chamber, and for the cooling towers. The raw water came from two water intakes on Lake Erie. The large round concrete foundation served as a gate between Reservoir #1 and the pump building, so the pump would pull the water from that round structure and not the actual reservoir." Present day, Reservoir #1 was transferred to Erie County who utilizes it (and Reservoir #2 located

off-site) to backflow their water intakes in the winter to remove ice buildup. Reservoir #1 and the associated concrete foundation does not represent a REC to the site.

Wells

Seven groundwater monitoring wells were observed at the site, two along the north exterior sides of Buildings 7122 (Warehouse) and 7131 (Garage) located in the south-central portion of the site; one southwest of Building 7146 (Salt Storage Building); three in the vicinity of the pond located in the southeast portion of the site; and one south of Building 1121 (Reactor Assembly Test and Storage Building) located in the central portion of the site. These wells appear to be inactive and previously utilized for sitewide groundwater monitoring activities associated with historic DoD operations, previously summarized in Section 3.7 of this report. Historical on-site DoD operations and associated environmental remediation and closure activities represent a HREC to the site.

6.0 Adjoining Property Reconnaissance

Visual observations of adjoining properties (from site boundaries) are summarized below.

Table 19 – Adjoining Properties

Direction	Description
North	Residential development (204-1006 County Road 10/West Bogart Road and 5214-5306 Ransom Road), Sandusky Church of God (1018 County Road 10/West Bogart Road), and an agricultural field
East	Residential development (5307-5507 Sandy Acres Drive, 5605-5803 Cambridge Circle, and 5885 Columbus Avenue) and wooded and brush-covered land
South	GRC-ATF substation and support building/powerhouse (Buildings 8531 and 8562), GRC-ATF warehouse (Building 9206), GRC-ATF CCL Control Building (Building 2921), exterior storage yard, and grass-covered, brush-covered, and wooded land
West	Wooded and grass-covered land

RECs associated with the site originating from current off-site operations were not identified.

7.0 Additional Services

Per the agreed scope of services specified in the proposal, the following additional services were conducted: Visual Observations for Suspect Asbestos, Radon Records Review, Visual Observations for Suspect Lead-Based Paint, Lead in Drinking Water Records Review,

Wetland Records Review, Threatened/Endangered Species Records Review, Historic Properties/Archaeological Resources Review, Visual Observations for Hazardous Material Items, and Review of Per- and Polyfluoroalkyl Substances (PFAS).

7.1 Visual Observations for Suspect Asbestos

Terracon visually assessed the interiors and exteriors of the on-site buildings for suspect asbestos-containing materials (ACM). The limited visual observations were performed by Craig Thompson an AHERA-accredited Ohio Asbestos Inspector, Certification No. AHES547319. No samples of suspect ACM were collected or analyzed as part of the observations. The visual observations for suspect ACM were restricted to readily visible and accessible building materials.

The following suspect ACM was observed:

Table 20 – Suspect ACM

Building Identification	Material	Friable/Non-Friable
9209 - Warehouse	Asphalt shingles Exterior caulk, white Drywall and joint compound Interior window glaze, brown Mastic, metal wall paneling	Non-friable Non-friable Friable Non-friable Non-friable
9210 - Warehouse	Asphalt shingles Interior window glaze, white	Non-friable Non-friable
9217 - Warehouse	None observed	
7123 – Locomotive Shop	Asphalt shingles Interior window glaze, white	Non-friable Non-friable
7143 – Chemical Laboratory	Asphalt shingles Tan 9” x 9” floor tile and mastic Drywall and joint compound Black 4” cove base and mastic 1’ x 1’ ceiling tile Interior window glaze, black Black sink undercoating Ventilation hood panels 4” cove base and mastic, grey Exterior door caulk, grey	Non-friable Non-friable Friable Non-friable Friable Non-friable Non-friable Non-friable Non-friable Non-friable
9208 – Warehouse	Interior window glaze, white	Non-friable

7133 – Vehicle Service Station Building	Foundation caulk, grey	Non-friable
7122 – Carpenter Shop	Cementitious shingles, black tar paper Exterior door caulk, white Exterior window glaze, white Asphalt shingles Interior window glaze, white Grey 9” x 9” floor tile and mastic	Non-friable Non-friable Non-friable Non-friable Non-friable Non-friable
7131 - Garage	Exterior door caulk, white Interior window glaze, white Asphalt shingles Drywall and joint compound Tan 9” x 9” floor tile and mastic Exterior vent caulk, white	Non-friable Non-friable Non-friable Friable Non-friable Non-friable
7146 – Salt Storage Building	Asphalt shingles	Non-friable
9201 - Warehouse	Exterior cementitious siding and black tar paper Exterior window glaze, white Asphalt shingles Drywall and joint compound	Non-friable Non-friable Non-friable Friable
9202 - Warehouse	Exterior cementitious siding and black tar paper Exterior window glaze, white Asphalt shingles Drywall and joint compound	Non-friable Non-friable Non-friable Friable
1121 - Reactor Assembly Test and Storage Building	Exterior door caulk, white Exterior window glaze, white Pipe insulation Mudded pipe fittings Grey 9” x9” floor tile and mastic Mortar/grout with floor and wall tile 4” cove base and mastic, brown Boiler insulation jacket Built-up Roofing	Non-friable Non-friable Friable Friable Non-friable Non-friable Non-friable Friable Non-friable

8631 – Comm Hub Building #1	12” x 12” white floor tile and mastic Drywall and joint compound Fiber reinforced polymer (FRP) wall paneling, white Foundation caulk, white Exterior building caulk, black Built-up Roofing	Non-friable Friable Non-friable Non-friable Non-friable Non-friable
8432 - Gas Meter House (Reactor Area)	None observed	

Mr. Bressler believed that it is possible previous asbestos sampling activities were conducted at the site, stating they would have been associated with project-specific renovations/demolitions. Most of the site buildings, excluding Buildings 9217, 7133, 7146, 1121, 8631, and 8432 were identified on the Plum Brook Station Master Buildings List provided by Mr. Bressler to Terracon as containing suspect ACM. Terracon was also provided copies of several previous suspect ACM survey reports completed at the site. Summaries of the previous reports are as follows:

- *Suspect ACM Survey of the Locomotive Shop, Building No. 7123*, dated January 7, 2011, completed by CTG Environmental, LLC

Bulk sampling of friable and non-friable suspect ACMs. The inspection did not include the roof, electrical wiring, or enclosed spaces such as pipe chases. Sampled materials included off-white window glazing, white widow glazing, gray exterior window caulking, white exterior window glazing, brown exterior door caulk, white interior door caulk, and gray expansion seam caulk. Based on the results of the bulk sampling analysis, the gray exterior widow caulk and gray expansion seam caulk were determined to be ACMs.

- *Suspect ACM Survey of the Garage and Vehicle Service Station, Building No. 7131*, dated December 9, 2010, completed by CTG Environmental, LLC

Bulk sampling of friable and non-friable suspect ACMs. The inspection did not include the roof, electrical wiring, or enclosed spaces such as pipe chases. Sampled materials included white window caulk, white window glazing, three types of decorative spackle, joint compound, drywall, white window glazing, 9” x 9” tan floor tile, two types of black floor tile mastic, and gray caulking. Based on the results of the bulk sampling analysis, the white window glazing and 9” x 9” tan floor tile were determined to be ACMs.

- *Suspect ACM Survey of the Vehicle Service Station Building, Building No. 7132*, dated January 7, 2011, completed by CTG Environmental, LLC

Bulk sampling of friable and non-friable suspect ACMs. The inspection did not include the roof or electrical wiring. Sampled materials included clear building caulk (exterior) and

white building caulk (exterior). Based on the results of the bulk sampling analysis, no sampled materials at the building were determined to be ACMs.

- *Suspect ACM Survey of the Chemical Laboratory Building, Building No. 7143*, dated December 10, 2010, completed by CTG Environmental, LLC

Bulk sampling of friable and non-friable suspect ACMs. The inspection did not include the roof, electrical wiring, or enclosed spaces such as pipe chases. Sampled materials included 9” x 9” tan floor tile, black floor tile mastic, black baseboard mastic, white joint compound, drywall, ceiling tile, sealant, window glazing, white joint compound, black sink undercoating, black lab table top, gray sink undercoating, black lab ventilator, vibration dampener, two types of white mudded pipe fitting, cellulose insulation, and brown spline ceiling tile mastic. Based on the results of the bulk sampling analysis, the 9” x 9” tan floor tile, black floor tile mastic, window glazing, one type of white joint compound, black lab table top, black lab ventilator, and white mudded pipe fitting insulation were determined to be ACMs.

- *Suspect ACM Survey of the Sewage Lift Station (Reactor), Building No. 8335*, dated December 21, 2010, completed by CTG Environmental, LLC

According to the report, no samples were collected as part of the survey because no suspect ACMs were observed during the site visit.

- *Suspect ACM Survey of the Warehouse, Building No. 9209*, dated December 22, 2010, completed by CTG Environmental, LLC

Bulk sampling of friable and non-friable suspect ACMs. The inspection did not include the roof, electrical wiring, or enclosed spaces such as pipe chases and above fixed ceilings. Sampled materials included two types of drywall, white drywall joint compound, press board ceiling, tan 9” x 9” floor tile, black floor tile mastic, tan window glazing, and gray window glazing. Based on the results of the bulk sampling analysis, the tan 9” x 9” floor tile and gray window glazing were determined to be ACMs.

- *Suspect ACM survey of the Warehouse, Building No. 9215*, dated December 9, 2010, completed by CTG Environmental, LLC

Bulk sampling of friable and non-friable suspect ACMs. The inspection did not include the roof, electrical wiring, or enclosed spaces. In addition, three center and three north sections of the crawlspace were not evaluated due to the access doors being nailed shut. Sampled materials included spline ceiling tile, white valve debris, gray transite shingle, black tar paper, white window glazing, Aircell pipe insulation, soil ACM, and mudded fittings. Based on the results of the bulk sampling analysis, the white valve debris, gray transite shingle, Aircell pipe insulation, soil ACM, and mudded fitting insulation were determined to be ACMs.

Based on the age of the remaining buildings, it is possible that the identified materials are ACM. Limited visual observations for asbestos are not intended to serve as a comprehensive building asbestos survey, comprehensive inspection, or comprehensive assessment for the presence of ACM in all or most of the building systems, nor will it serve to adequately assess the presence of ACM in a building or portions thereof for pre-demolition or pre-renovation purposes. Terracon recommends conducting a thorough asbestos survey prior to disturbance of suspect ACM during planned renovations or building demolition.

7.2 Radon Records Review

Radon is a naturally occurring radioactive gas produced through the natural decay of uranium to stable lead. It is odorless, tasteless, and invisible. Elevated concentrations of radon can be found in soils and rocks containing uranium, granite, shale, phosphate, and pitchblende. Locations of these materials are highly unpredictable. Elevated levels of radon may also be found in soils containing certain types of industrial wastes, such as the by-products from uranium or phosphate mining. Radon can accumulate inside structures at concentrations that may pose risks to human health. Indoor radon levels are influenced by building construction and the concentration of radon in the underlying soil.

Terracon reviewed the Erie County radon study prepared by Air Chek to identify the site location in terms of potential for average indoor radon concentrations. The study indicated the site is located in EPA Zone 2, which has a predicted average indoor screening level of greater than 2.0 pCi/L and less than 4.0 pCi/L. The EPA recommends a guideline action level of 4.0 picoCuries of radon per liter of air (pCi/L) for annual average indoor radon concentrations in residential properties. The action level is based on an exposure of 18 hours per day for 40 years.

The average residential radon concentration from the study for Erie County is 6.3 pCi/L. The study indicated that 45% of homes in Erie County exceeded the EPA action level.

Based on this information, the site is considered to have a high potential for elevated indoor concentrations of radon gas. However, testing would be required to evaluate site-specific concentrations of radon gas.

7.3 Visual Observations for Suspect Lead-Based Paint

Terracon visually assessed the on-site buildings for suspect lead-based paints (LBP). No samples of suspect LBP were collected or analyzed as part of the observations. The visual observations for suspect LBP were restricted to readily visible and accessible building components.

The following suspect LBP was observed:

Table 21 - Suspect LBP

Building Identification	Paint Color	Substrate	Building Component
9209 - Warehouse	White White Blue/grey Grey	Drywall Wood Wood Concrete	Walls Walls Door frames Floors
9210 - Warehouse	None observed		
9217 - Warehouse	Tan	Metal	Exterior walls
7123 – Locomotive Shop	Silver White	Metal Brick	Beams Walls
7143 – Chemical Laboratory	Pink White	Brick Drywall	Exterior walls Walls
9208 – Warehouse	Pink Tan White Grey	Brick Wood Brick Concrete	Exterior walls Exterior framing Interior walls Floors
7133 – Vehicle Service Station Building	Pink Tan Tan	Metal Metal Concrete	Exterior walls Exterior walls Foundation
7122 – Carpenter Shop	White White Blue Grey Grey White	Cementitious shingles Metal Wood Wood Wood Drywall	Siding Siding Walls and stairs Door frames Floors Walls
7131 - Garage	White White White White Grey Grey	Metal Wood Concrete Brick and wood Wood Concrete	Exterior walls Exterior walls Interior walls Interior walls Door frames Floor
7146 – Salt Storage Building	White	Wood	Exterior walls
9201 - Warehouse	White White Blue	Wood Wood Wood	Siding Trim Interior walls

9202 - Warehouse	White White	Wood Wood	Siding Trim
1121 - Reactor Assembly Test and Storage Building (Lead paint signage on man door of building)	White White White Grey Yellow White Grey White Tan Green	Metal Concrete Metal Metal Metal Concrete Concrete masonry unit (CMU) CMU Metal Concrete	Exterior walls Foundation Beams, walls, stairs Beams Crane and handrails Floors Walls Walls Walls Floors
8631 – Comm Hub Building #1	None observed		
8432 - Gas Meter House (Reactor Area)	Grey	Metal	Exterior siding

Based on the age of the buildings, it is possible that the identified paints are lead-based. Limited visual observations for LBP are not intended to serve as a comprehensive building LBP survey or comprehensive assessment for the presence of LBP in all or most of the building areas, nor will it serve to adequately assess the presence of LBP in a building or portions thereof for pre-renovation purposes. Terracon recommends conducting a thorough LBP survey prior to disturbance of suspect LBP during planned renovation and/or demolition activities.

7.4 Lead in Drinking Water Records Review

Lead is a toxic heavy metal that could be present in drinking water. Natural water usually contains very little lead. Contamination generally occurs in the water distribution system or in the supply pipes of the building. Because of this, the EPA has established an action level for lead concentrations in drinking water of 15 µg/L. The action level is defined as the concentration of lead in water, which if exceeded, triggers treatment or other requirements that a water system must follow.

Based on a 2023 water quality report from Erie County Water Authority, the average concentration of lead in drinking water in Erie County is 1.05 µg/L. Based on this information, the site is considered to have a low potential for concentrations of lead in drinking water.

7.5 Wetland Records Review

The U.S. Army Corps of Engineers (USACE) regulates jurisdictional wetlands and other waters of the U.S. under Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act. Terracon conducted a limited desktop review of the site to identify areas mapped by the resources below as potentially exhibiting characteristics of wetlands and/or other waterbodies that may be subject to regulation under the USACE. This review may not identify state/locally-designated wetlands. This desktop review is not a thorough review of wetlands and may not identify all resources present.

Terracon reviewed the following resources to identify areas mapped as indicating the potential presence of jurisdictional waters of the U.S., including wetlands, on the site:

Topographic Map

The United States Geologic Survey (USGS) 7.5-Minute Topographic Map of the subject site was reviewed to identify drainages or other potential waters of the U.S. within the project site. A portion of the Topographic Quadrangle can be seen as Exhibit 1 in Appendix A. The USGS map depicted Taylor Ditch traversing the north and west portions of the site, Hemming Ditch traversing the east portion of the site, and Plum Brook traversing the southeast portion of the site. Irrigation ditches are also depicted along Pentolite Road in the central portion of the site and across the southeast portions of the site.

National Wetland Inventory Map

National Wetland Inventory (NWI) data for the project site was reviewed to identify potential wetland areas. NWI data for the project site was published by the U.S. Department of the Interior's Fish and Wildlife Service and depicts possible wetland areas based on stereoscopic analysis of high-altitude aerial photographs. The review of the NWI data indicates several freshwater forested shrub/wetlands are mapped in the north portion of the site, freshwater emergent wetlands are mapped in the central portion of the site, (along the north side of Pentolite Road), and freshwater forested shrub/wetlands, freshwater emergent wetlands, and a freshwater pond are mapped in the southeast portion of the site. The NWI map data for the project area can be seen as Exhibit 3 in Appendix A.

Terracon's review of the above resources indicated several freshwater ponds/wetlands and ditches are mapped on the site. Please note this Limited Wetland Review does not constitute a formal determination and/or delineation of a potentially jurisdictional wetland, which requires (among other procedures) a formal field investigation including hand-dug soil stations with vegetation and hydrologic indicator identification, as set forth in *1987 Corps of Engineers Wetland Delineation Manual* and further amended by the *applicable Regional Supplements to the Corps of Engineers Wetland Delineation Manual*.

To obtain a formal determination from the USACE regarding jurisdictional status, a wetland/waters of the U.S. delineation could be conducted by a wetland scientist and submitted to the USACE (or in certain geographies the participating state agency) for a jurisdictional determination. Note that the USACE is not required to respond to determination requests within a particular timeframe unless the submittal also includes a permit application.

Terracon was provided a copy of a November 2012 *Wetlands and Other Waters Delineation Report - 6,431-Acres at NASA Plum Brook Station, Sandusky, Erie County, Ohio* prepared by EnviroScience, Inc. (ES). According to the report, in the north portion of the site (Sections 11.01 and 11.02 of the ES report), several wetlands were delineated (PFO, PFOEM, PSSFO, PEM, and PSS). Three intermittent waterways (RPW) and one perennial waterway (Taylor Ditch) (Non-RPW) were also delineated in the north portion of the site. In the north-central portion of the site (Sections 11.04 and 11.05 of the ES report), several wetlands were delineated (PFO, PFOEM, PSSFO, PEM, PSS, AND PEMSS). Several ephemeral waterways (RPW), two perennial waterways (Taylor Ditch and Hemming Ditch) (Non-RPW), and several intermittent waterways (RPW) were also delineated in the central portion of the site. In the south-central portion of the site (Sections 11.07 and 11.08 of the ES report), several wetlands were delineated (PFO, PEM, PSS, and PEMSS). Several ephemeral waterways (RPW), two perennial waterways (Pentolite Ditch and Plum Brook) (Non-RPW), several intermittent waterways (RPW), and a pond were also delineated in the south-central portion of the site. In the south portion of the site (Sections 11.13 and 11.14 of the ES report), several wetlands were delineated (PEMFOSS, PFO, PEM, PSS, and PEMSS). Several ephemeral waterways (RPW), perennial waterways (Non-RPW), and intermittent waterways (RPW) were also delineated in the south portion of the site.

Approved jurisdictional determinations by the USACE expire after five years; however, it is important to note that wetland boundaries were previously identified in the event of future redevelopment activities. New wetland delineations will need to be completed in order to accurately represent current on-site conditions.

7.6 Threatened/Endangered Species Records Review

Literature and agency file searches were conducted to review the potential occurrence of federally- and state-listed threatened and endangered (T&E) species located in the site vicinity. The search included information from the EDR NEPASearch Map Report. The following is a list of federally- and state-listed T&E species potentially located in Erie County, Ohio.

Table 22 – Threatened & Endangered Species

FEDERAL ENDANGERED SPECIES FROM USFWS - ERIE COUNTY	
SPECIES	STATUS*
BIRDS	
Piping plover (*Charadrius melodus*)	FE
Red knot (*Calidris canutus rufa*)	FT
FLOWERING PLANTS	
Lakeside daisy (*Hymenoxys herbacea*)	FT
MAMMALS	
Indiana bat (*Myotis sodalist*)	FE
Northern long-eared bat (*Myotis septentrionalis*)	FT

OHIO ENDANGERED SPECIES - ERIE COUNTY	
SPECIES	STATUS*
ANIMALS	
Lake sturgeon (*Acipenser fulvescens*)	SE
Deertoe (*Truncilla truncata*)	SC
Upland sandpiper (*Bartramia longicauda*)	SE
Longnose sucker (Catostomus catostomus)	SE
A tiger beetle (*Cicindela hirticollis hirticollis*)	ST
Sedge wren (*Cistothorus platensis*)	SC
Spotted turtle (*Clemmys guttata*)	ST
Kirtland's snake (*Clonophis kirtlandii*)	ST
Lake whitefish (*Coregonus clupeaformis*)	SC
Purple wartyback (*Cyclonaias tuberculata*)	SC
Blanding's turtle (*Emydoidea blandingii*)	ST
Marsh bluet (*Enallagma erbium*)	ST
Muskellunge (*Esox masquinongy*)	SC
Plains clubtail (*Gomphus externus*)	SE
Least bittern (*Ixobrychus exilis*)	ST

OHIO ENDANGERED SPECIES - ERIE COUNTY	
SPECIES	STATUS*
Eastern pondmussel (*Ligumia nasuta*)	SE
Black sandshell (*Ligumia recta*)	ST
Lake Erie watersnake (*Nerodia sipedon insularum*)	ST
Threehorn wartyback (*Obliquaria reflexa*)	ST
Smooth greensnake (*Opheodrys vernalis*)	SC
Eastern foxsnake (*Pantherophis gloydi*)	SC
Channel darter (*Percina copelandi*)	ST
Sora rail (*Porzana carolina*)	SC
Common tern (*Sterna hirundo*)	SE
Fawnsfoot (*Truncilla donaciformis*)	ST
Eastern cricket frog (*Acris crepitans*)	SC
PLANTS	
American sweet-flag (*Acorus americanus*)	SP
American beach grass (*Ammophila breviligulata*)	ST
Prairie thimbleweed (*Anemone cylindrica*)	ST
Southern hairy rock cress (*Arabis pycnocarpa* var. *adpressipilis*)	SP
Purple triple-awned grass (*Aristida purpurascens*)	SP
Beach wormwood (*Artemisia campestris*)	ST
Prairie false indigo (*Baptisia lacteal*)	SP
Twisted teeth moss (*Barbula indica*)	SE
Limestone savory (*Calamintha arkansana*)	ST
Grass-pink (*Calopogon tuberosus*)	ST
Broad-winged sedge (*Carex alata*)	SP
Leafy tussock sedge (*Carex aquatilis*)	ST
Wheat sedge (*Carex atherodes*)	SP
Golden-fruited sedge (*Carex aurea*)	SP
Bebb's sedge (*Carex bebbii*)	SP
Bicknell's sedge (*Carex bicknellii*)	ST
Tufted fescue sedge (*Carex brevior*)	SP
Field sedge (*Carex conoidea*)	ST

OHIO ENDANGERED SPECIES - ERIE COUNTY	
SPECIES	STATUS*
Little yellow sedge (*Carex cryptolepis*)	SP
Yellow sedge (*Carex flava*)	SP
Garber's sedge (*Carex garberi*)	SE
Slender sedge (*Carex lasiocarpa*)	SP
Mud sedge (*Carex limosa*)	SE
Midland sedge (*Carex mesochorea*)	ST
Necklace sedge (*Carex projecta*)	ST
Straw sedge (*Carex straminea*)	SP
Little green sedge (*Carex viridula*)	ST
Long-bracted orchid (*Coeloglossum viride*)	SE
Bushy horseweed (*Conyza ramosissima*)	SP
Spotted coral-root (*Corallorhiza maculata*)	SP
Round-leaved dogwood (*Cornus rugosa*)	SP
Low umbrella-sedge (*Cyperus diandrus*)	SP
Schweinitz' umbrella-sedge (*Cyperus schweinitzii*)	ST
White lady's-slipper (*Cypripedium candidum*)	SE
Tansy mustard (*Descurainia pinnata*)	SP
Northern panic grass (*Dichanthelium boreale*)	SP
Lindheimer's panic grass (*Dichanthelium lindheimeri*)	ST
Southern hairy panic grass (*Dichanthelium meridionale*)	ST
Carolina whitlow-grass (*Draba reptans*)	ST
Flat-stemmed spike-rush (*Eleocharis compressa*)	SP
Green spike-rush (*Eleocharis flavescens*)	ST
Caribbean spike-rush (*Eleocharis geniculate*)	SE
Ovate spike-rush (*Eleocharis ovata*)	SE
Slender spike-rush (*Eleocharis tenuis*)	ST
Seaside spurge (*Euphorbia polygonifolia*)	SP
Great Lakes goldenrod (*Euthamia remota*)	ST
Fringed gentian (*Gentianopsis crinite*)	SP
Small fringed gentian (*Gentianopsis procera*)	SP

OHIO ENDANGERED SPECIES - ERIE COUNTY	
SPECIES	STATUS*
Round-fruited hedge-hyssop (*Gratiola virginiana*)	ST
Common oak fern (*Gymnocarpium dryopteris*)	SE
Rough pennyroyal (*Hedeoma hispida*)	SP
Plains frostweed (*Helianthemum bicknellii*)	SP
Ashy sunflower (*Helianthus mollis*)	ST
Canada St. John's-wort (*Hypericum canadense*)	SE
Least St. John's-wort (*Hypericum gymnanthum*)	SE
Kalm's St. John's-wort (*Hypericum kalmianum*)	ST
Leafy blue flag (*Iris brevicaulis*)	ST
Alpine rush (*Juncus alpinoarticulatus*)	SP
Baltic rush (*Juncus balticus*)	SP
Diffuse rush (*Juncus diffusissimus*)	ST
Greene's rush (*Juncus greenei*)	ST
Flat-leaved rush (*Juncus platyphyllus*)	SE
Dwarf bulrush (*Lipocarpha micrantha*)	ST
Rock sandwort (*Minuartia michauxii*)	SP
American water-milfoil (*Myriophyllum sibiricum*)	SE
Oakes' evening-primrose (*Oenothera oakesiana*)	SP
Common prickly pear (*Opuntia humifusa*)	SP
Balsam squaw-weed (*Packera paupercula*)	ST
Philadelphia panic grass (*Panicum philadelphicum*)	SE
Tuckerman's panic grass (*Panicum tuckermanii*)	SE
American reed grass (*Phragmites australis* ssp. *Americanus*)	SP
Floating pondweed (*Potamogeton natans*)	SP
Richardson's pondweed (*Potamogeton richardsonii*)	ST
Bushy cinquefoil (*Potentilla paradoxa*)	ST
Rough rattlesnake-root (*Prenanthes aspera*)	SE
Prairie rattlesnake-root (*Prenanthes racemosa*)	SP
Early buttercup (*Ranunculus fascicularis*)	ST
Virginia meadow-beauty (*Rhexia virginica*)	SP

OHIO ENDANGERED SPECIES - ERIE COUNTY	
SPECIES	STATUS*
Smooth rose (*Rosa blanda*)	SP
Wapato (*Sagittaria cuneata*)	ST
Deer's-tongue arrowhead (*Sagittaria rigida*)	SP
Hoary willow (*Salix candida*)	SP
Blue-leaved willow (*Salix myricoides*)	SP
Smith's bulrush (*Schoenoplectus smithii*)	ST
Tall nut-rush (*Scleria triglomerata*)	SP
Canada buffalo-berry (*Shepherdia canadensis*)	SP
Northern blue-eyed-grass (*Sisyrinchium montanum*)	ST
Narrow-leaved blue-eyed-grass (*Sisyrinchium mucronatum*)	ST
Showy goldenrod (*Solidago speciosa*)	ST
Leafy goldenrod (*Solidago squarrosa*)	ST
Shining ladies'-tresses (*Spiranthes lucida*)	SP
Great Plains ladies'-tresses (*Spiranthes magnicamporum*)	SP
Bushy aster (*Symphyotrichum dumosum*)	ST
Lakeside daisy (*Tetraneuris herbacea*)	SE
Marsh arrow-grass (*Triglochin palustris*)	SP
Rock elm (*Ulmus thomasii*)	SP
Prairie ironweed (*Vernonia fasciculata*)	SE
Lance-leaved violet (*Viola lanceolata*)	SP
Northern bog violet (*Viola nephrophylla*)	ST
Twisted yellow-eyed-grass (*Xyris torta*)	ST

*Status Codes:
FE = Federally Endangered
FT = Federally Threatened
SE = State Endangered
ST = State Threatened
SP = State Potentially Threatened
SC = State Special Concern (not a statutory category)

The EDR NEPASearch Map Report identified USFWS mapped critical habitat on the site. The site, and a greater than one mile radius surrounding the site, is mapped as being situated within the Ottawa National Wildlife Refuge – US Proclamation Boundary. Established in 1961, the Ottawa National Wildlife Refuge protects a network of wetlands,

grasslands and forests to provide habitat for a variety of migratory birds, resident wildlife and threatened and endangered species. This network of land covers more than 8,000-acres.

Terracon was provided a copy of a March 2023 *Protected Species Management Strategy for NASA Glenn Research Center at Neil A. Armstrong Text Facility* report prepared by Leidos, Inc.

According to the report, the following rare plant communities; rare, threatened and endangered animals were identified at the site:

North Portion of Site

Pentolite Area Native Forests (Intact Rare Plant Communities)

Hedeoma hispida

Big Brown Bat

Central Portion of Site

Pentolite Road Savanna Areas (Degraded Rare Plant Communities)

Euthamia caroliniana

Rhexia virginica

Big Brown Bat

Marsh Wren

Sora

Trumpeter Swan

Red-Headed Woodpecker

Henslow's Sparrow

South Portion of Site

Rhexia virginica

Marsh Wren

Terracon recommends referencing the previous report for recommendations and general methods for managing protected species and rare plant communities at GRC-ATF.

7.7 Historic Properties/Archaeological Resources Review

A limited literature and agency file review was conducted to identify publicly available records of known occurrence of cultural resources on the site. Note that records pertaining to location of cultural resources are often restricted and not available to the public. Absence of records does not guarantee absence of cultural resources; it may be that a survey for the site has not previously been completed or that such records are not publicly available. This review is limited and does not constitute a site investigation by an

archeologist or historian or concurrence from the State Historic Preservation Office (SHPO).

Cultural resources are comprised of historic properties and archaeological artifacts. The review included the EDR NEPASearch Map Report and Freedom of Information Act (FOIA) requests for publicly available information. Cultural resources or structures of historical significance were not documented in the EDR NEPASearch Map Report or through FOIA requests.

Terracon was provided a copy of a July 2020 *NASA Plum Brook Station Archaeological Sensitivity Report Erie County, Ohio*, prepared by Commonwealth Heritage Group, Inc. Based on review of the report and included maps, no areas of high historic archaeological sensitivity were identified at the site.

Regardless of whether resources have or have not been identified on-site or adjacent, consultation with SHPO or the local regulating authority may be necessary to obtain concurrence for the site. Terracon Cultural Resources professionals can advise on applicability and as appropriate, submit a Cultural Resources Assessment Survey (CRAS) letter to SHPO or the local regulating authority. Please note that they may have 30 or more calendar days to review the request and may not respond if the request is not part of a permit request. It should be noted that Section 106 of the National Historic Preservation Act (NHPA) applies to federal undertakings. If federal funding or federal permitting is introduced to the project, the completion of a CRAS may be a requirement for meeting Section 106 obligations.

7.8 Visual Observations for Hazardous Material Items

Terracon visually assessed the on-site buildings for hazardous material items. The visual observations for hazardous material items were restricted to readily visible and accessible building areas. Terracon observed the following hazardous material items: tube lights and light ballasts, mercury thermostats, security cameras, window-mounted air conditioning units, refrigerators, copy machines, flammable materials closets, a TV, fire extinguishers, exit signs, emergency lights, network routers, computers, chemicals/cleaners, and smoke detectors.

Terracon recommends that hazardous materials survey be completed to accurately inventory the exact quantities and locations of the identified hazardous material items.

7.9 Review of Per- and Polyfluoroalkyl Substances (PFAS)

PFAS are an emerging contaminant of concern due to their toxicity, mobility and longevity in the environment. Although the U.S. EPA has yet to designate PFAS (individually or as a class) as hazardous substances under CERCLA, the U.S. EPA has developed a health advisory level for PFAS. Per the request of the client, Terracon has included review of PFAS as Non-ASTM Scope consideration in the report. We reviewed PFAS-related findings solely

identified within the scope elements of this Phase I ESA and no intrusive testing was conducted as part of this scope.

There is the potential usage of PFAS compounds from vehicle maintenance and historical industrial manufacturing and research and development operations at the site. The possible use of PFAS in the vehicle maintenance and historical industrial manufacturing and research and development operations and consequent potential for PFAS releases, is considered a potential environmental concern for the site. Although the State of Ohio has not established a regulatory framework for PFAS and the U.S. EPA has yet to designate PFAS (individually or as a class) as hazardous substances under CERCLA, the U.S. EPA has developed a health advisory level for selected PFAS compounds.

8.0 Declaration

I, Stacy L. Baron-Vatty, declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR 312; and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the site. I have developed and performed the All Appropriate Inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

_____

Stacy L. Baron-Vatty
Department Manager - Due Diligence
Senior Associate

9.0 References

ASTM International, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, ASTM Designation E1527-21, 2021.

Bureau of Underground Storage Tank Regulations website: OTTER (ohio.gov)

Certified Sanborn Map Report, Environmental Data Resources, Inc., September 17, 2024

Clean Closure Certification Report, Garage and Maintenance Area, NASA Glenn Research Center at Plum Brook Station, Sandusky, Ohio, Leidos, 2019

EDR 1940 Chain of Title, Environmental Data Resources, Inc., October 16, 2024

EDR Aerial Photo Decade Package, Environmental Data Resources, Inc., September 18, 2024

EDR Area / Corridor Report, Environmental Data Resources, Inc., September 16, 2024

EDR City Directory Image Report, Environmental Data Resources, Inc., September 18, 2024

EDR Environmental Lien and AUL Search, Environmental Data Resources, Inc., September 16, 2024

EDR Historical Topo Map Report, Environmental Data Resources, Inc., September 16, 2024

EDR NEPASearch™ Map Report, Environmental Data Resources, Inc., September 23, 2024

Erie County Water Authority Annual Water Quality Report, 2023

Erie County Auditor's website: https://auditor.eriecounty.oh.gov/Search/Name

Final Discolored Water Treatment Technology Evaluation and Cost Analysis for NASA Neil A. Armstrong Test Facility Sandusky, Ohio, Leidos, 2023

Final Records Review Report, National Aeronautics and Space Administration Neil A. Armstrong Test Facility, *Sandusky, Ohio*, Leidos, 2023

Final Status Survey Report, Plum Brook Reactor Facility, Sandusky, Ohio, NASA, 2012

NASA Plum Brook Station Archaeological Sensitivity Report Erie County, Ohio, Heritage Group, Inc., 2020

National Wetlands Inventory Website: Wetlands Mapper | U.S. Fish & Wildlife Service

National Register of Historic Places (NRHP) website: National Register of Historic Places (U.S. National Park Service)

ODNR Division of Soil and Water Resources, Groundwater Mapping and Technical Services Water Well Locator – https://waterwells.ohiodnr.gov/search/interactive -search.

Ohio EPA eDocuments website: Ohio EPA's eDocument Search

Protected Species Management Strategy for NASA Glenn Research Center at Neil A. Armstrong Text Facility, Leidos, 2023

Suspect ACM Survey of the Chemical Laboratory Building, Building No. 7143, CTG Environmental, LLC, 2010

Suspect ACM Survey of the Garage and Vehicle Service Station, Building No. 7131, CTG Environmental, LLC, 2010

Suspect ACM Survey of the Locomotive Shop, Building No. 7123, CTG Environmental, LLC, 2011

Suspect ACM Survey of the Sewage Lift Station (Reactor), Building No. 8335, CTG Environmental, LLC, 2010

Suspect ACM Survey of the Warehouse, Building No. 9209, CTG Environmental, LLC, 2010

Suspect ACM survey of the Warehouse, Building No. 9215, CTG Environmental, LLC, 2010

U.S. EPA Map of Radon Zones website: The EPA Map of Radon Zones | US EPA

U.S. Fish & Wildlife Service (USFWS) IPaC Information for Planning and Consultation website: IPaC: Home

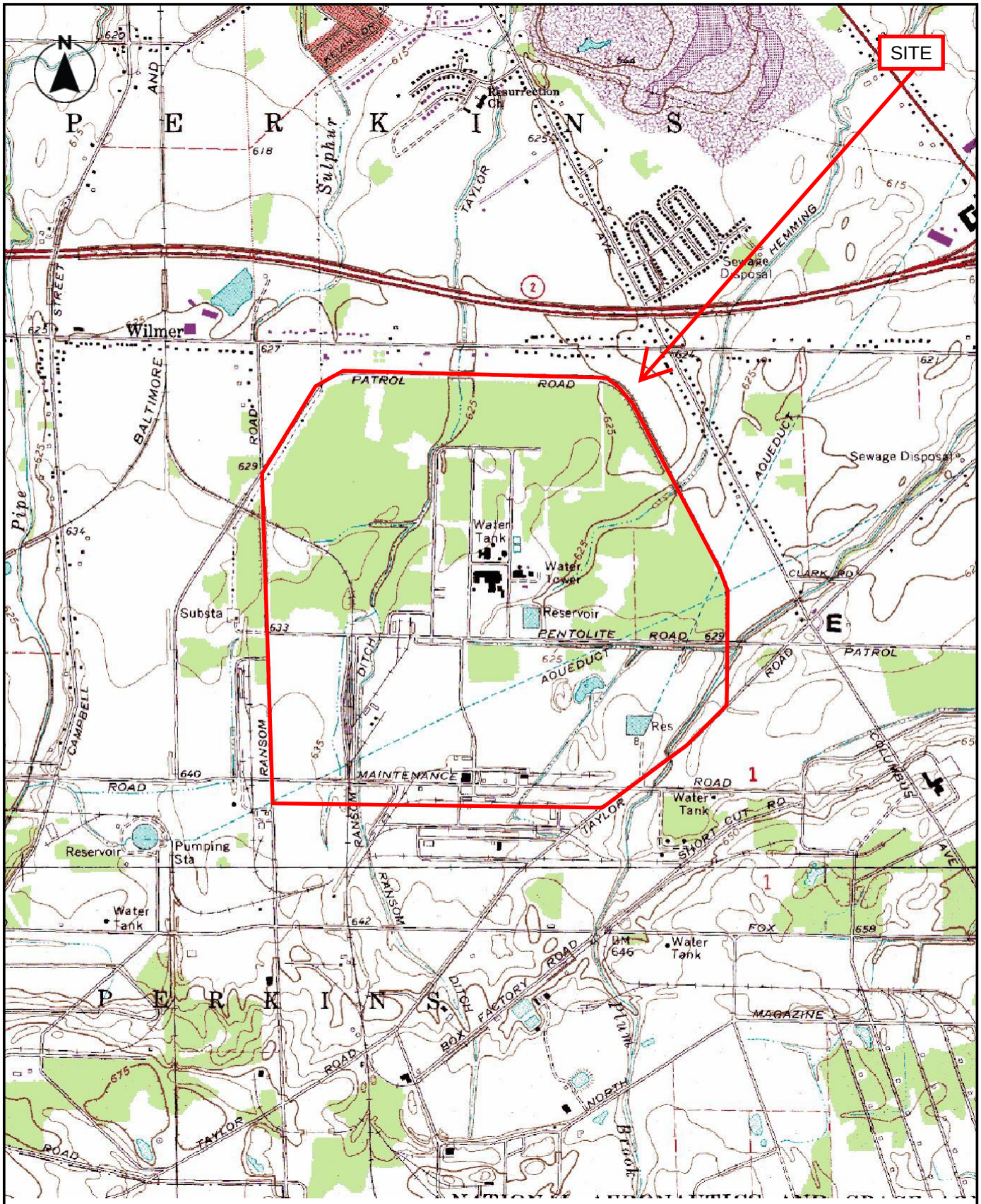
Wetlands and Other Waters Delineation Report - 6,431-Acres at NASA Plum Brook Station, Sandusky, Erie County, Ohio, EnviroScience, Inc. (ES), 2012

APPENDIX A

EXHIBIT 1 – TOPOGRAPHIC MAP

EXHIBIT 2 – SITE DIAGRAM

EXHIBIT 3 - SITE BUILDINGS AND STRUCTURES



TOPOGRAPHIC MAP IMAGE COURTESY OF THE U.S. GEOLOGICAL SURVEY
QUADRANGLES INCLUDE: SANDUSKY, OH (1/1/1979) and KIMBALL, OH (1/1/1969).

Project Manager: SV	Project No. N6247241	Terracon 12460 Plaza Drive Cleveland, Ohio 44130-1057	TOPOGRAPHIC MAP GRC Armstrong Test Facility – North Plot Taylor Road and Ransom Road Sandusky, Ohio	Exhibit
Drawn by: KM	Scale: 1"=2,000'			1
Checked by: SV	File Name: Ex. 1			
Approved by: SV	Date: 9-24-2024			

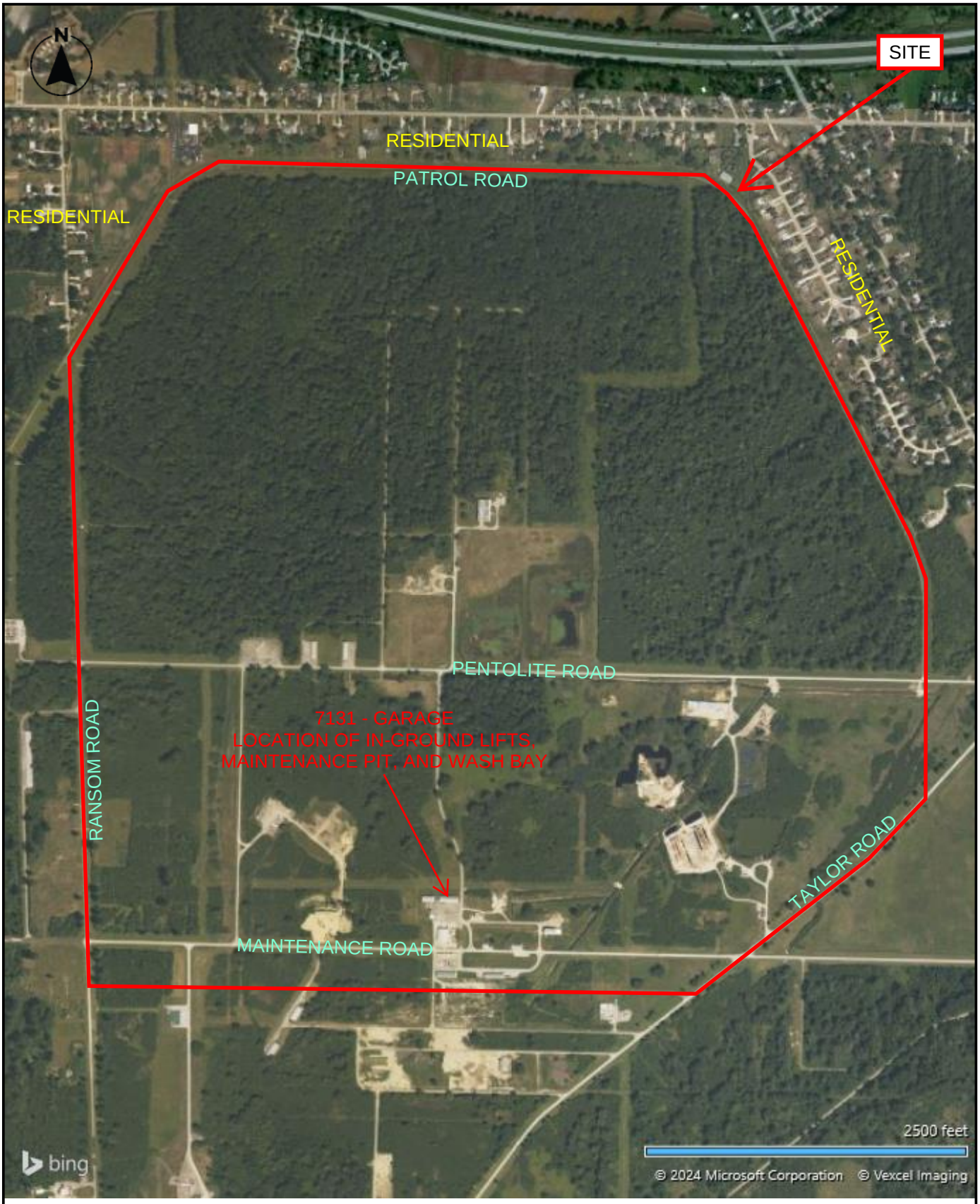


DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

AERIAL PHOTOGRAPHY PROVIDED BY MICROSOFT BING MAPS

Project Manager: SV	Project No. N6247241	Terracon 12460 Plaza Drive Cleveland, Ohio 44130-1057	SITE DIAGRAM GRC Armstrong Test Facility – North Plot Taylor Road and Ransom Road Sandusky, Ohio	Exhibit
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Checked by: SV	File Name: Ex. 2			
Approved by: SV	Date: 9-24-2024			

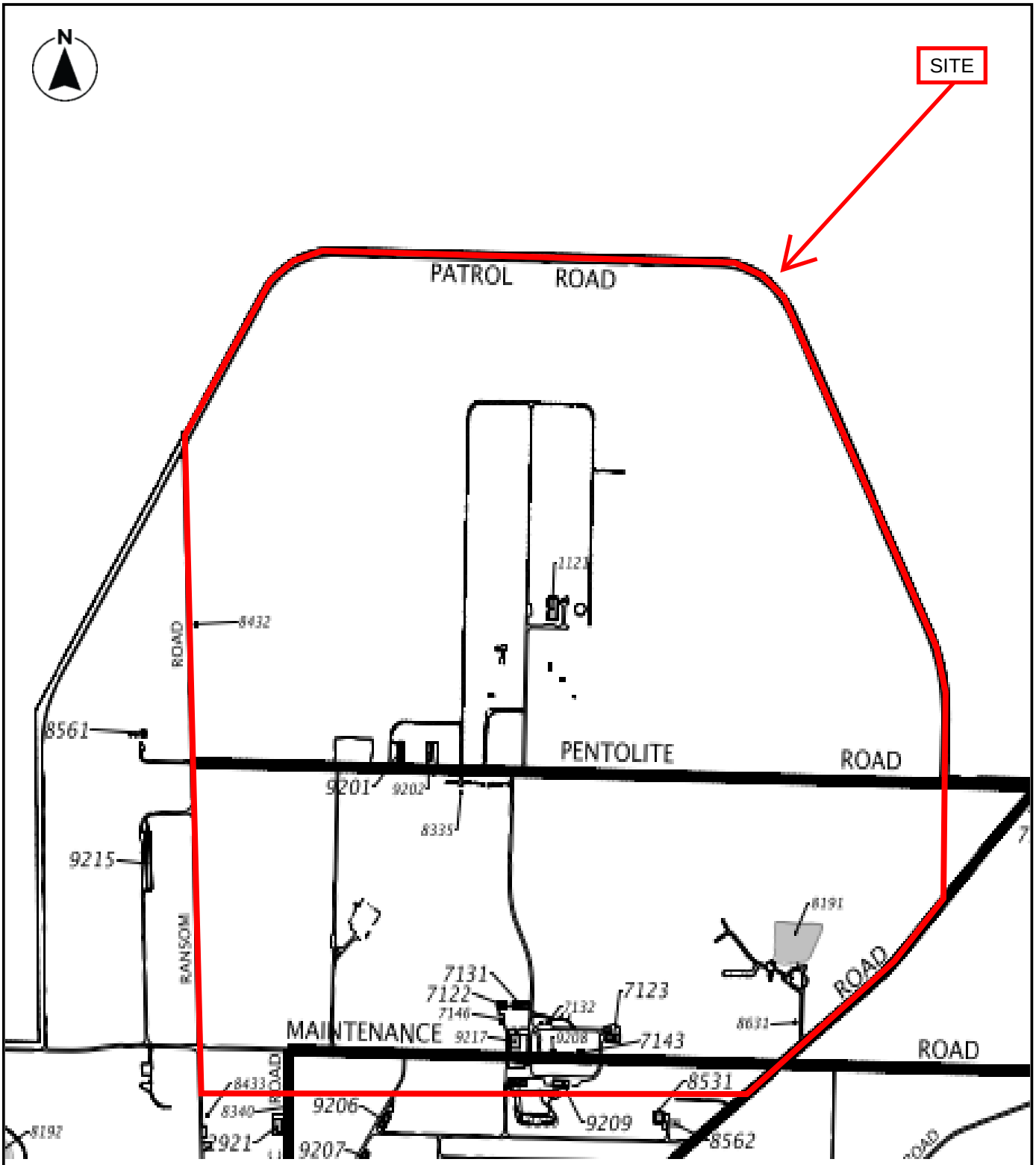

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Manager: SV	Project No. N6247241	terracon 12460 Plaza Drive Cleveland, Ohio 44130-1057	SITE BUILDINGS AND STRUCTURES GRC Armstrong Test Facility – North Plot Taylor Road and Ransom Road Sandusky, Ohio	Exhibit
Drawn by: KM	Scale: AS SHOWN			3
Checked by: SV	File Name: Ex. 3			
Approved by: SV	Date: 9-24-2024			

APPENDIX B

SITE PHOTOGRAPHS

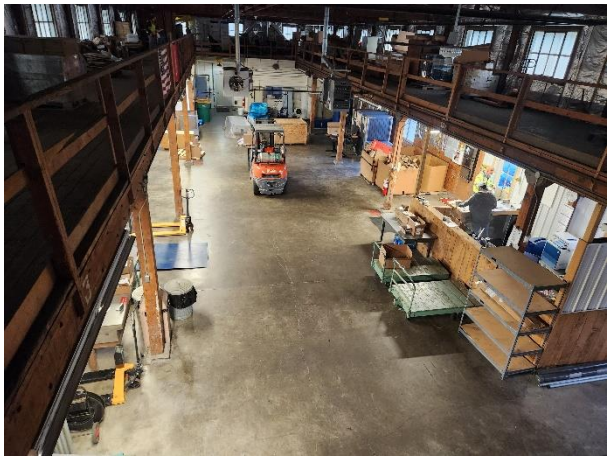

Photo #1 Typical view within Building 9209 - Warehouse.

Photo #2 Typical view within Building 9210 - Warehouse.

Photo #3 Typical view within Building 9217 - Warehouse.

Photo #4 Typical view within Building 7123 – Locomotive Shop.

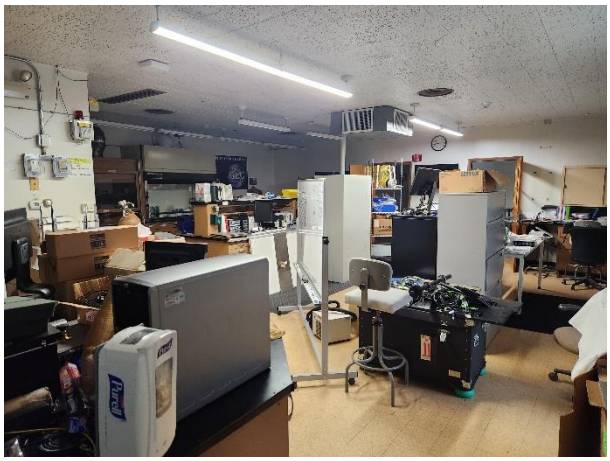

Photo #5 Typical view within Building 7143 – Chemical Laboratory.

Photo #6 Typical view within Building 9208 – Warehouse.

Photo #7 View of Building 7133 – Vehicle Service Station Building.

Photo #8 View of ASTs located east of Building 7133.

Photo #9 Typical view within Building 7122 – Carpenter Shop.

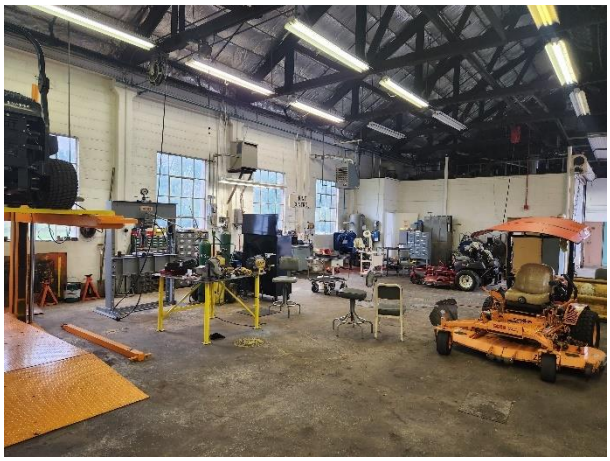

Photo #10 View within Building 7131 – Garage.

Photo #11 View of wash bay and trench drain located within Building 7131.

Photo #12 View of covered maintenance pit located within Building 7131.

Photo #13 View of an in-ground lift located within Building 7131.

Photo #14 View within Building 7146 – Salt Storage Building.

Photo #15 Typical view within Buildings 9201 and 9202 – Warehouses.

Photo #16 View within Building 1121 – Reactor Assembly Test and Storage Building.

Photo #17 Additional view within Building 1121.

Photo #18 View of lead paint signage located on a door of Building 1121.

Photo #19 View of an exterior storage area located in the southwest portion of the site.

Photo #20 View of an exterior storage area located in the west-central portion of the site.

Photo #21 View of demolition debris located in the central portion of the site.

Photo #22 View of Reservoir #1 located in the southeast portion of the site.

Photo #23 View of a groundwater monitoring well observed near Reservoir #1.

Photo #24 Typical view of adjoining residential development.

APPENDIX C

HISTORICAL DOCUMENTATION AND USER QUESTIONNAIRE

GRC North Plot

Taylor Road and Ransom Road

Sandusky, OH 44870

Inquiry Number: 7764628.1

September 16, 2024

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

09/16/24

Site Name:	Client Name:
GRC North Plot	Terracon
Taylor Road and Ransom Road	12460 Plaza Drive
Sandusky, OH 44870	Parma, OH 44130
EDR Inquiry # 7764628.1	Contact: Kelly Macwhinnie

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Terracon 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.#	NA	**Latitude:**	41.386406 41° 23' 11" North
Project:	N6247241 ? Task 3	**Longitude:**	-82.683586 -82° 41' 1" West
		UTM Zone:	Zone 17 North
		UTM X Meters:	359235.39
		UTM Y Meters:	4583020.75
		Elevation:	628.00' above sea level

Maps Provided:

2019
2016
2013
1979
1969
1959
1904

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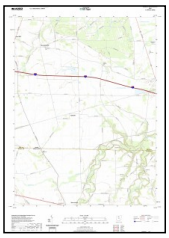
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2019 Source Sheets

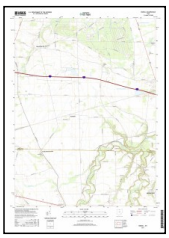
Sandusky
2019
7.5-minute, 24000



Kimball
2019
7.5-minute, 24000

2016 Source Sheets

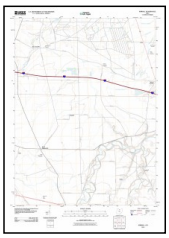
Sandusky
2016
7.5-minute, 24000



Kimball
2016
7.5-minute, 24000

2013 Source Sheets

Sandusky
2013
7.5-minute, 24000



Kimball
2013
7.5-minute, 24000

1979 Source Sheets

Sandusky
1979
7.5-minute, 24000
Aerial Photo Revised 1977

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

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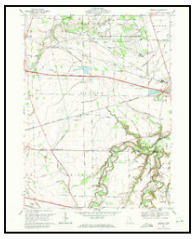


Kimball
1969
7.5-minute, 24000
Aerial Photo Revised 1969

Sandusky
1969
7.5-minute, 24000
Aerial Photo Revised 1969

1959 Source Sheets

Sandusky
1959
7.5-minute, 24000
Aerial Photo Revised 1956

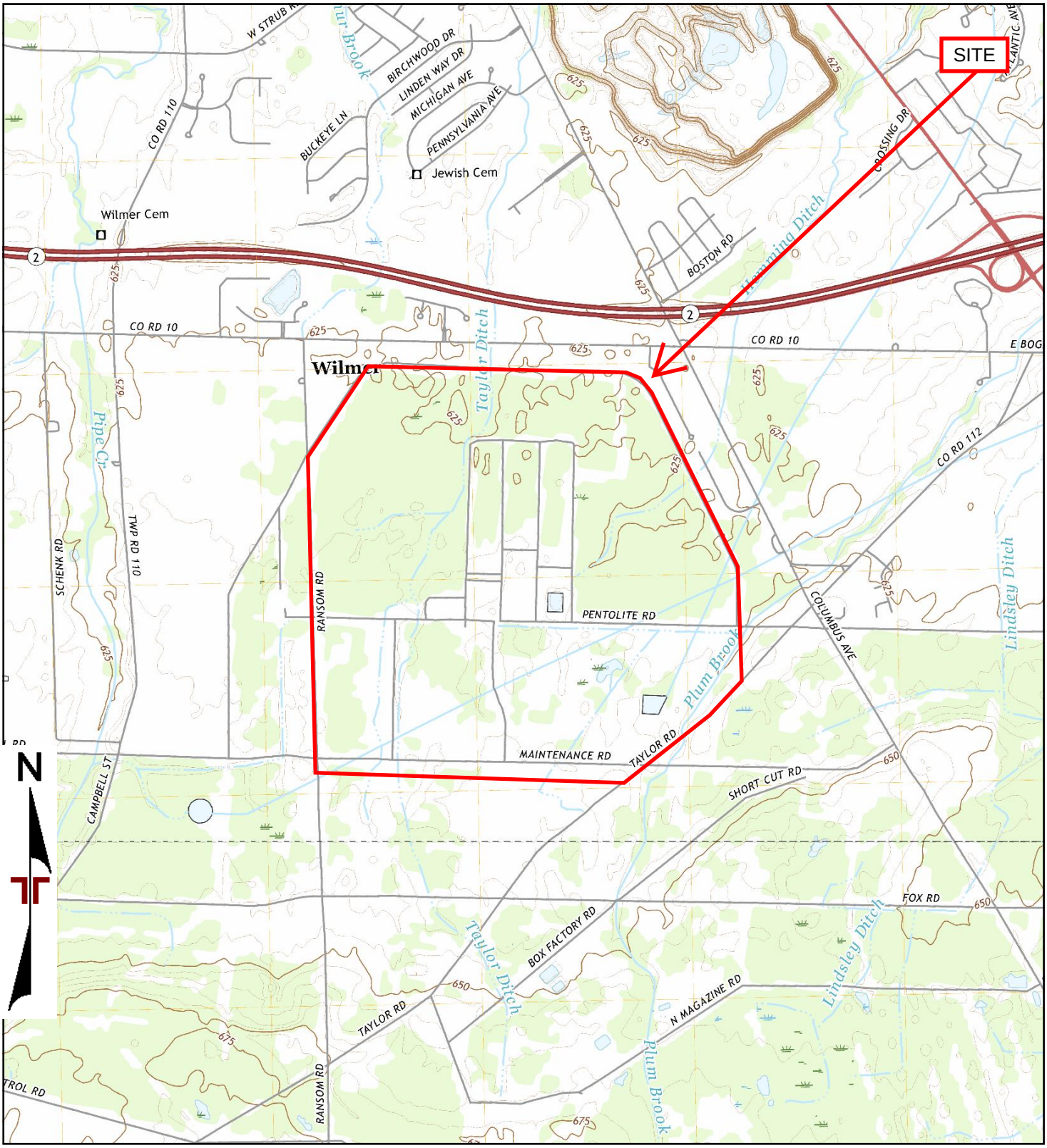
Kimball
1959
7.5-minute, 24000
Aerial Photo Revised 1956

1904 Source Sheets

Sandusky
1904
15-minute, 62500

Topographic Map

2019



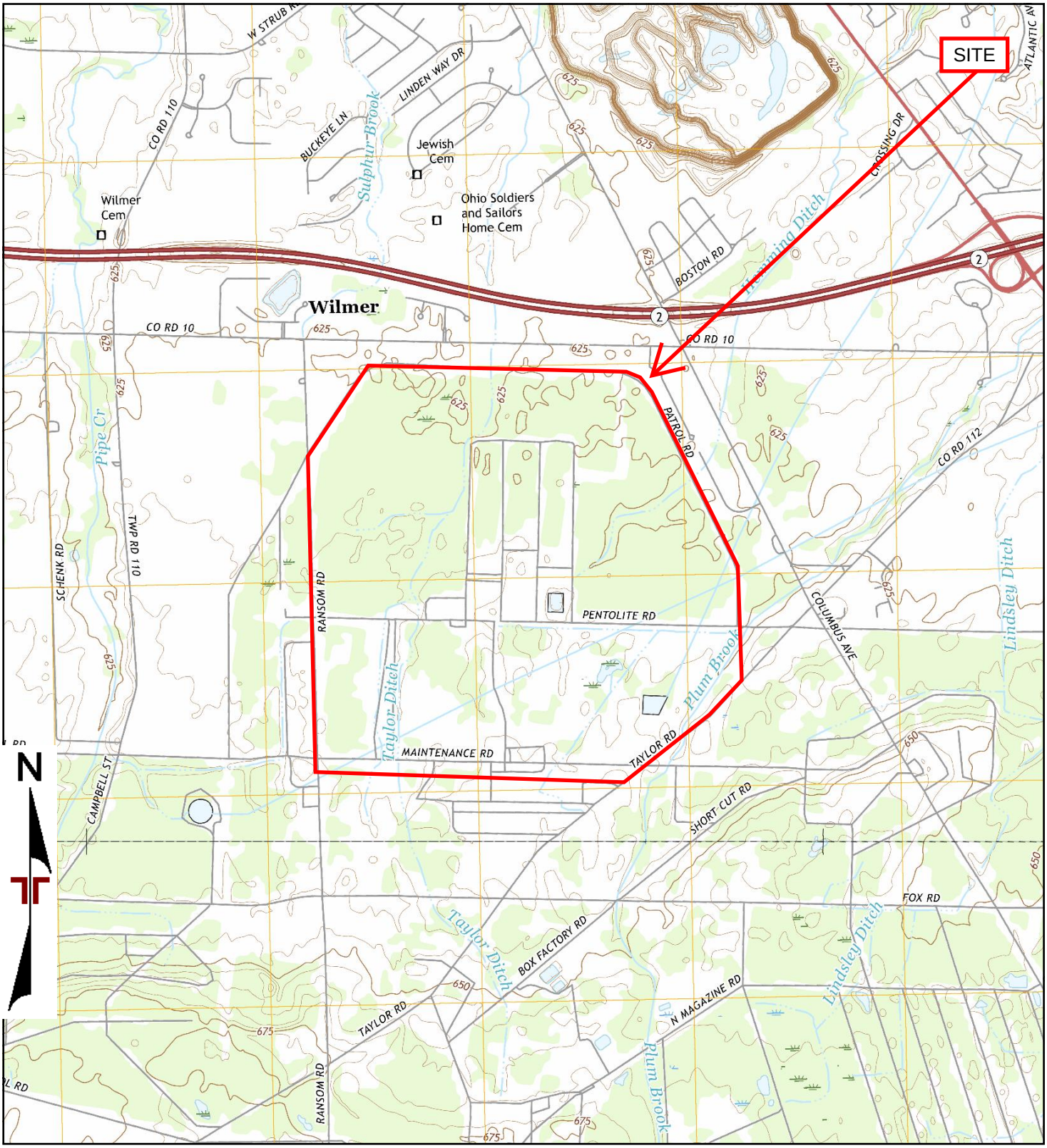
TP, Sandusky, 2019, 7.5-minute
S, Kimball, 2019, 7.5-minute

0 Miles 0.25 0.5 1 1.5

Project Manager:	Project No. N6247241 ? Task	Terracon 12460 Plaza Drive Parma, OH 44130	2019 TOPOGRAPHIC MAP	Appendix
Drawn by:	Scale: As Shown		GRC North Plot	C
Checked by:	File Name:		Taylor Road and Ransom Road	
Approved by:	Date: 2019		Sandusky, OH 44870	

Topographic Map

2016



TP, Sandusky, 2016, 7.5-minute
S, Kimball, 2016, 7.5-minute

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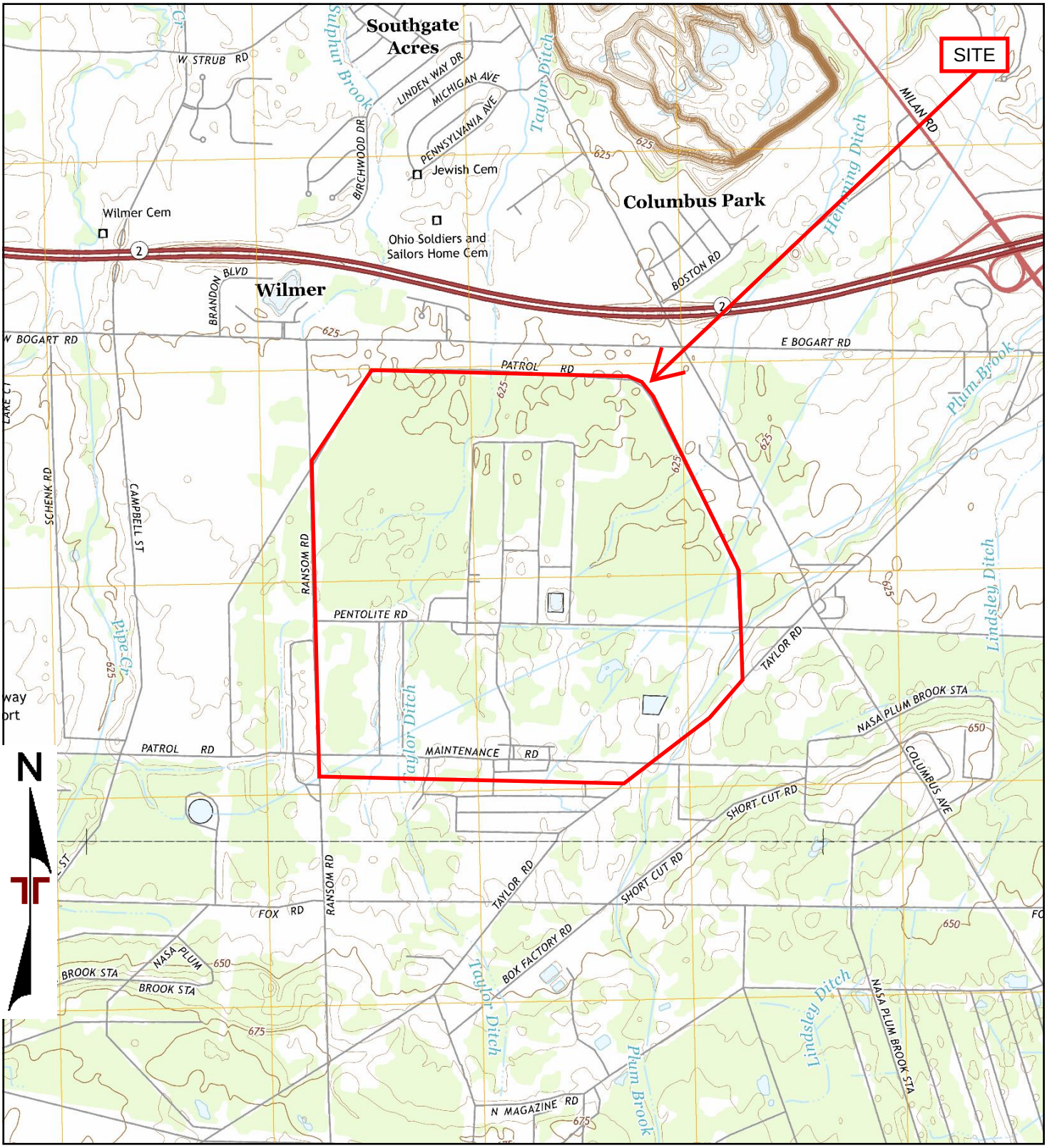
Project Manager:	Project No.	Terracon	2016 TOPOGRAPHIC MAP
Drawn by:	Scale:		
Checked by:	File Name:		
Approved by:	Date: 2016		

Topographic Map

2013



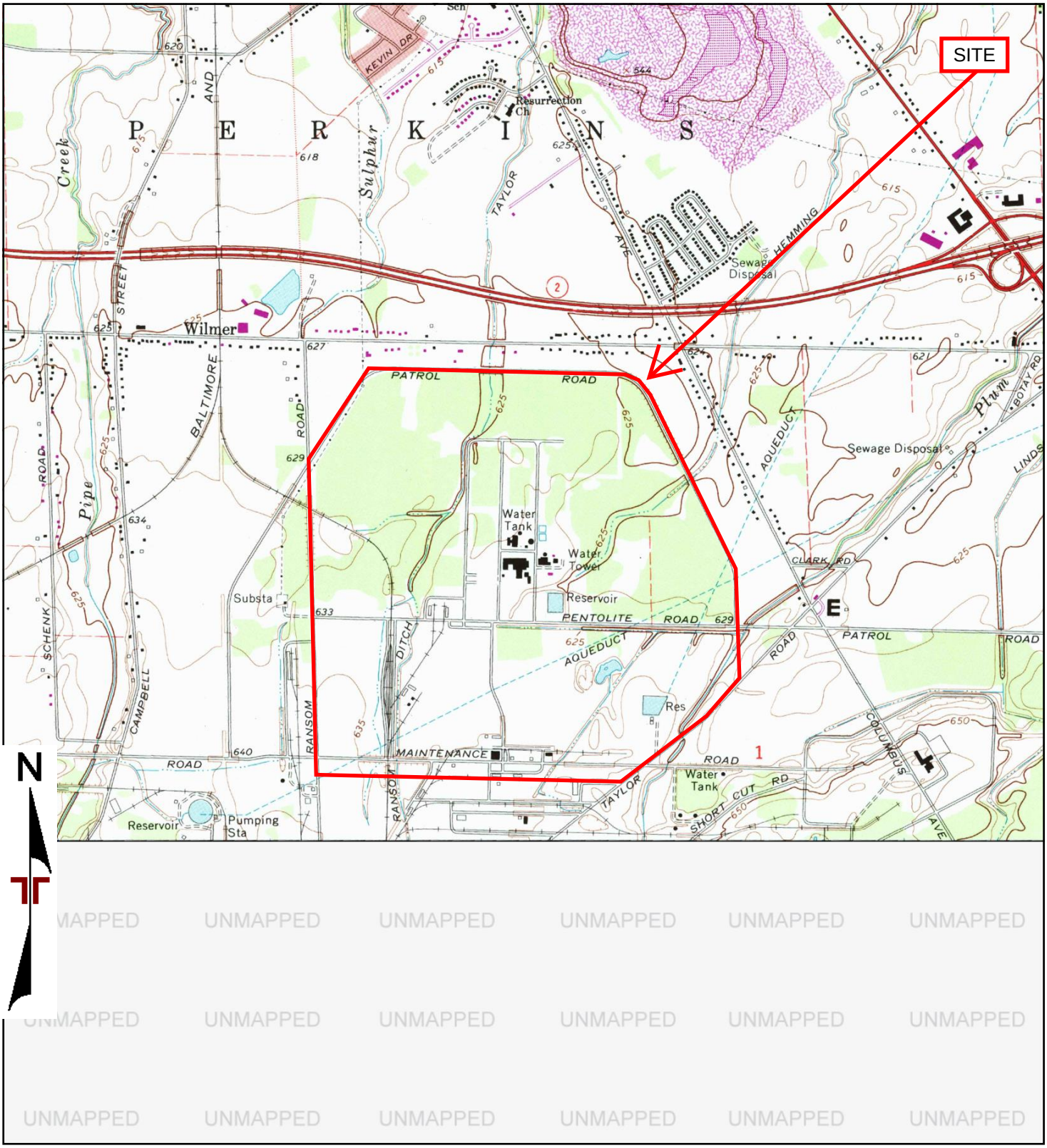
TP, Sandusky, 2013, 7.5-minute
S, Kimball, 2013, 7.5-minute

0 Miles 0.25 0.5 1 1.5

Project Manager:	Project No.	Terracon	2013 TOPOGRAPHIC MAP
Drawn by:	Scale:		
Checked by:	File Name:		
Approved by:	Date: 2013		

Topographic Map

1979



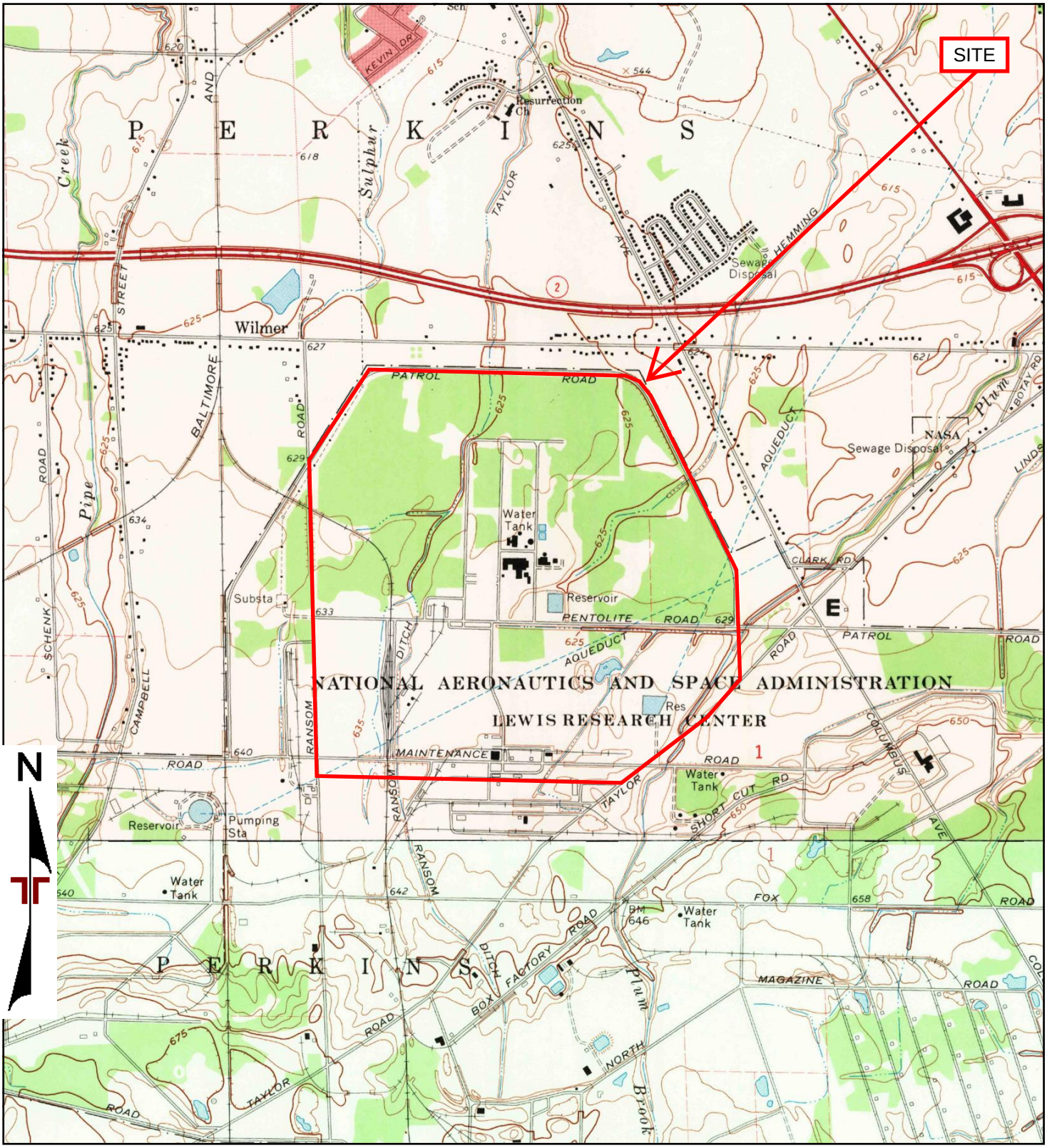
TP, Sandusky, 1979, 7.5-minute

0 Miles 0.25 0.5 1 1.5

Project Manager:	Project No.	Terracon	1979 TOPOGRAPHIC MAP
Drawn by:	Scale:		
Checked by:	File Name:		
Approved by:	Date: 1979		

Topographic Map

1969



TP, Sandusky, 1969, 7.5-minute
S, Kimball, 1969, 7.5-minute

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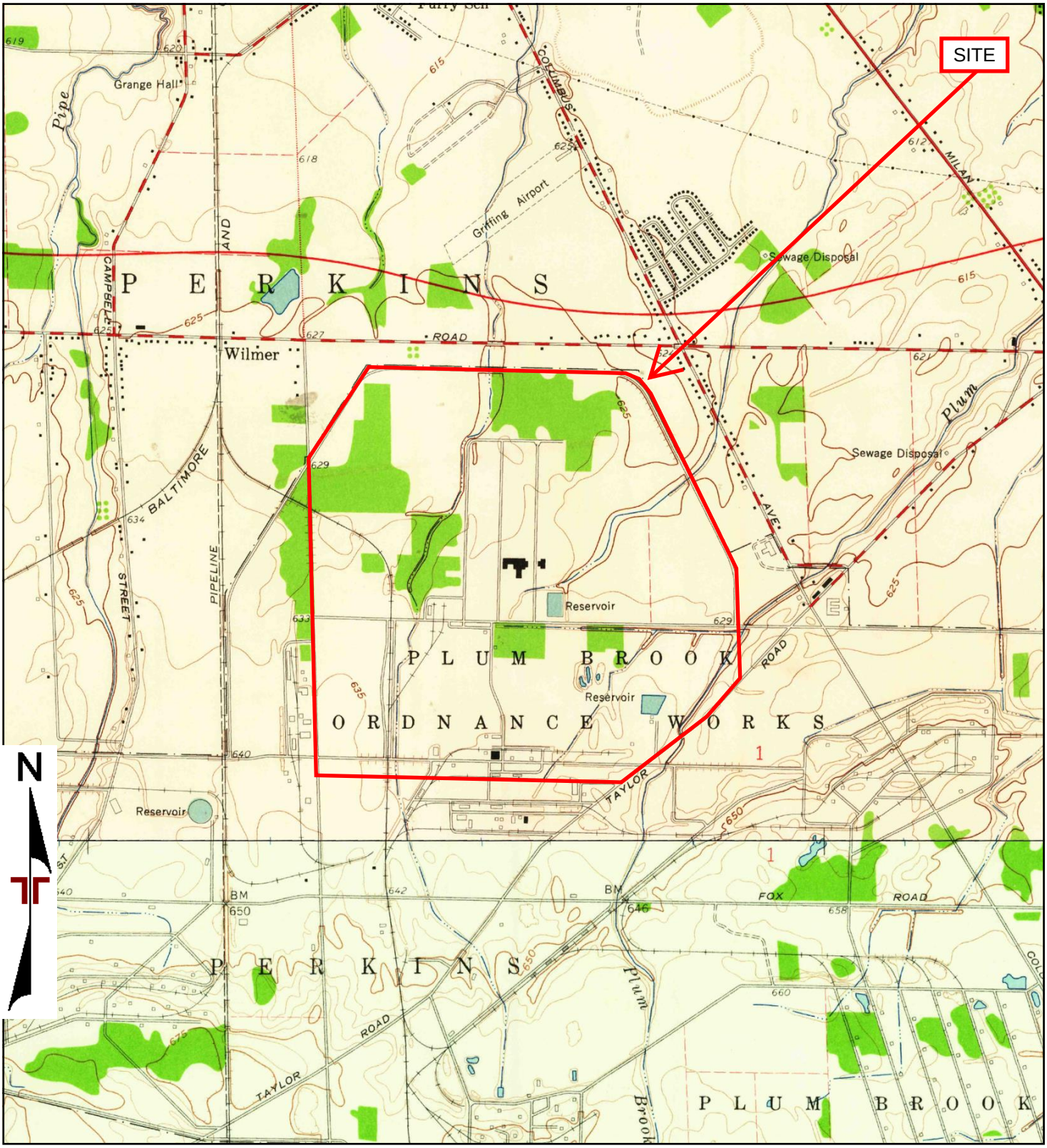
Project Manager:	Project No.	Terracon	1969 TOPOGRAPHIC MAP	
Drawn by:	Scale:			
Checked by:	File Name:			
Approved by:	Date: 1969			

Topographic Map

1959



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S, Kimball, 1959, 7.5-minute

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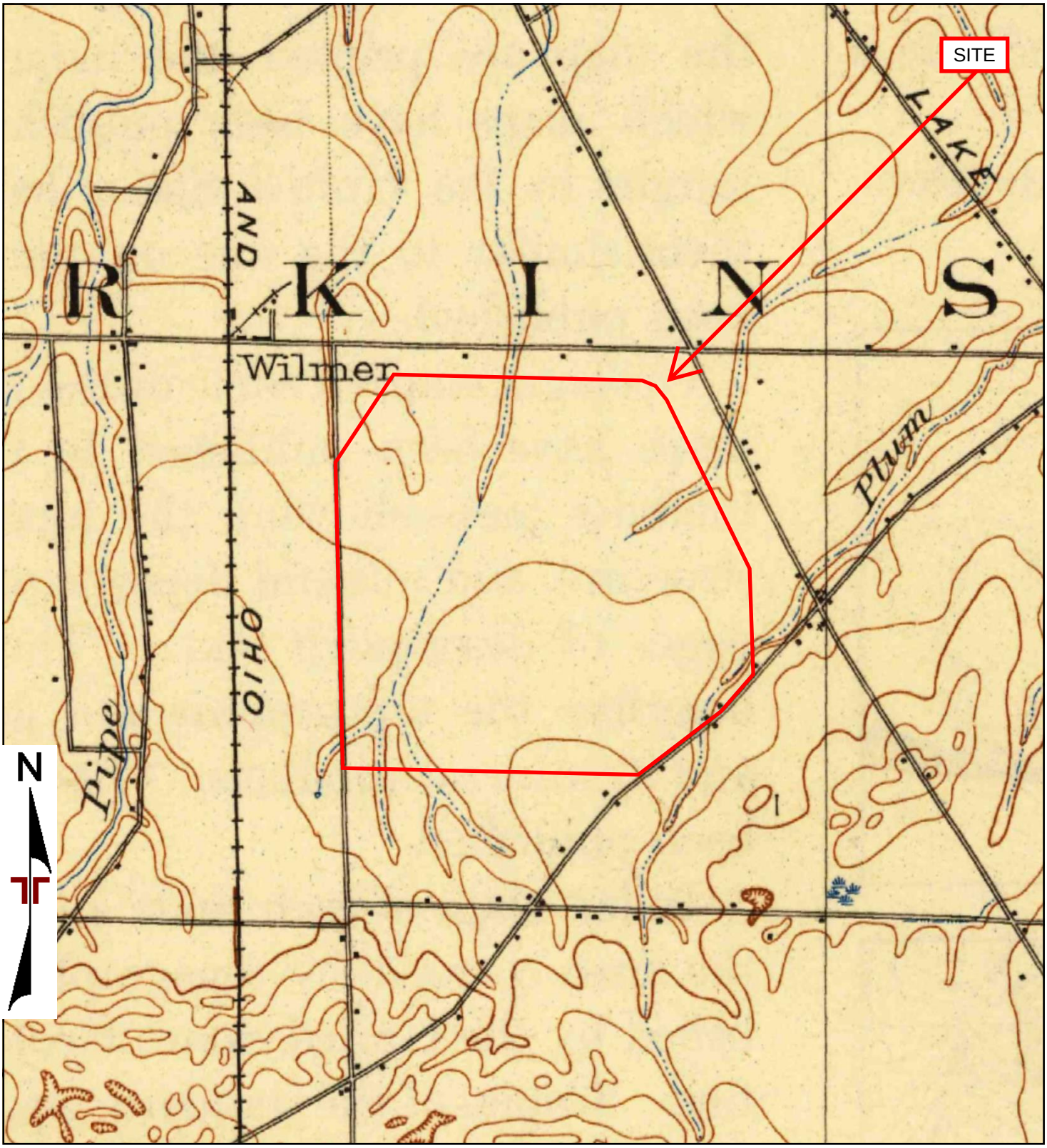
Checked by:	File Name:		
Approved by:	Date: 1959		

Topographic Map

1904



TP, Sandusky, 1904, 15-minute

0 Miles 0.25 0.5 1 1.5

Project Manager:	Project No.	Terracon	1904 TOPOGRAPHIC MAP
Drawn by:	Scale:		
Checked by:	File Name:		
Approved by:	Date: 1904		

GRC North Plot

Taylor Road and Ransom Road

Sandusky, OH 44870

Inquiry Number: 7764628.4

September 18, 2024

The EDR Aerial Photo Decade Package

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Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Date EDR Searched Historical Sources:

Aerial Photography September 17, 2024

Target Property:

Pentolite Road and Ransom Road

Sandusky, OH 44870

Year	***Scale***	***Details***	***Source***
1937	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1937	USDA
1960	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1960	USGS
1969	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1969	USGS
1977	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1977	USGS
1983	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1983	USDA
1988	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1988	USGS
1995-1997	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1995-1997	USGS/DOQQ
2004	Aerial Photograph. Scale: 1"=1000'	Flight Year: 2004	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=1000'	Flight Year: 2010	USDA/NAIP
2015	Aerial Photograph. Scale: 1"=1000'	Flight Year: 2015	USDA/NAIP
2019	Aerial Photograph. Scale: 1"=1000'	Flight Year: 2019	USDA/NAIP

SITE
INQUIRY
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SCALE: 1

SITE
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YEAR: 1960
SCALE: 1"=1000'

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YEAR: 1969
SCALE: 1"=1000'

SITE
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YEAR: 1977
SCALE: 1"=1000'

SITE
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YEAR: 1983
SCALE: 1"=1000'

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YEAR: 1988
SCALE: 1"=1000'

SITE
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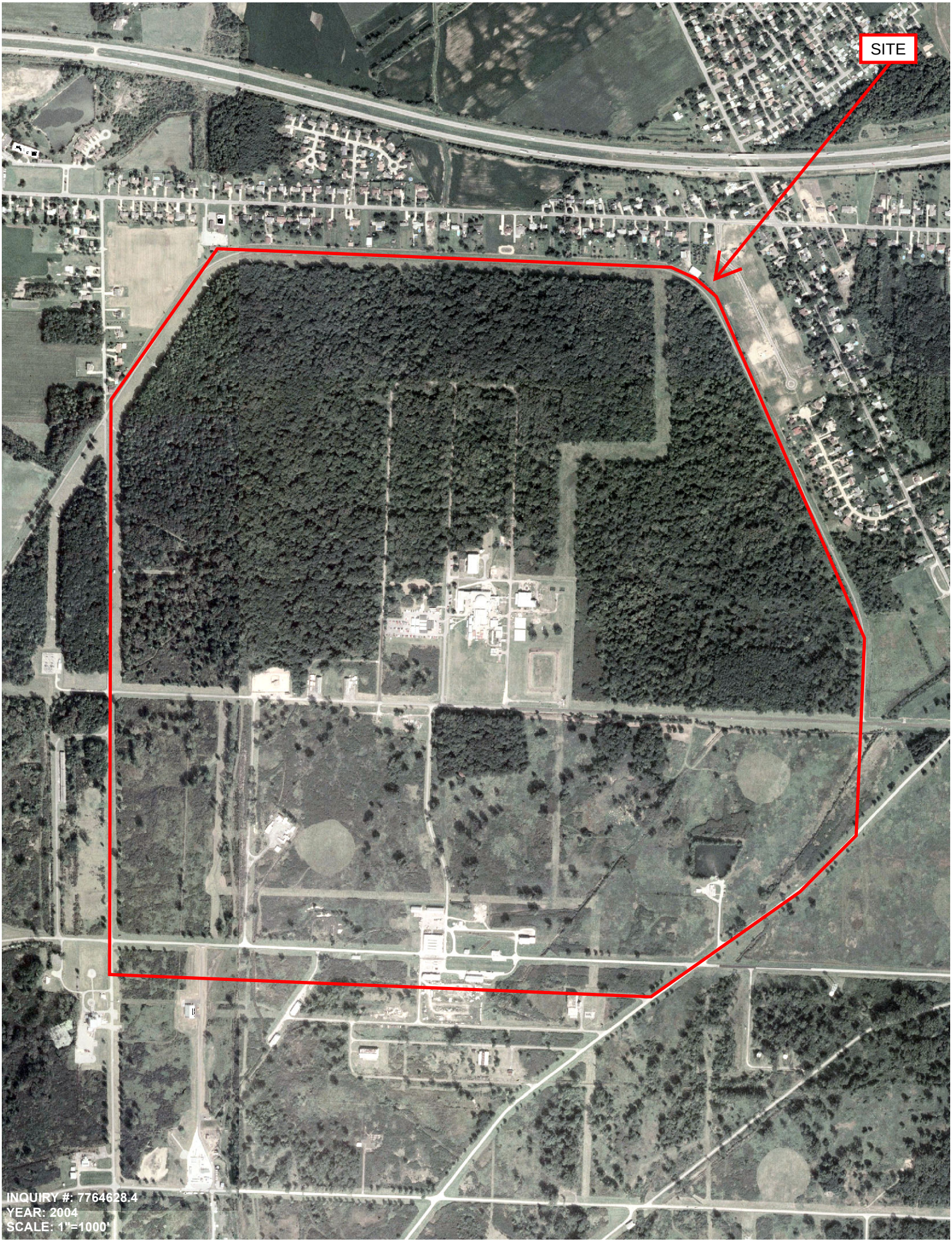
SCALE: 1" = 1000'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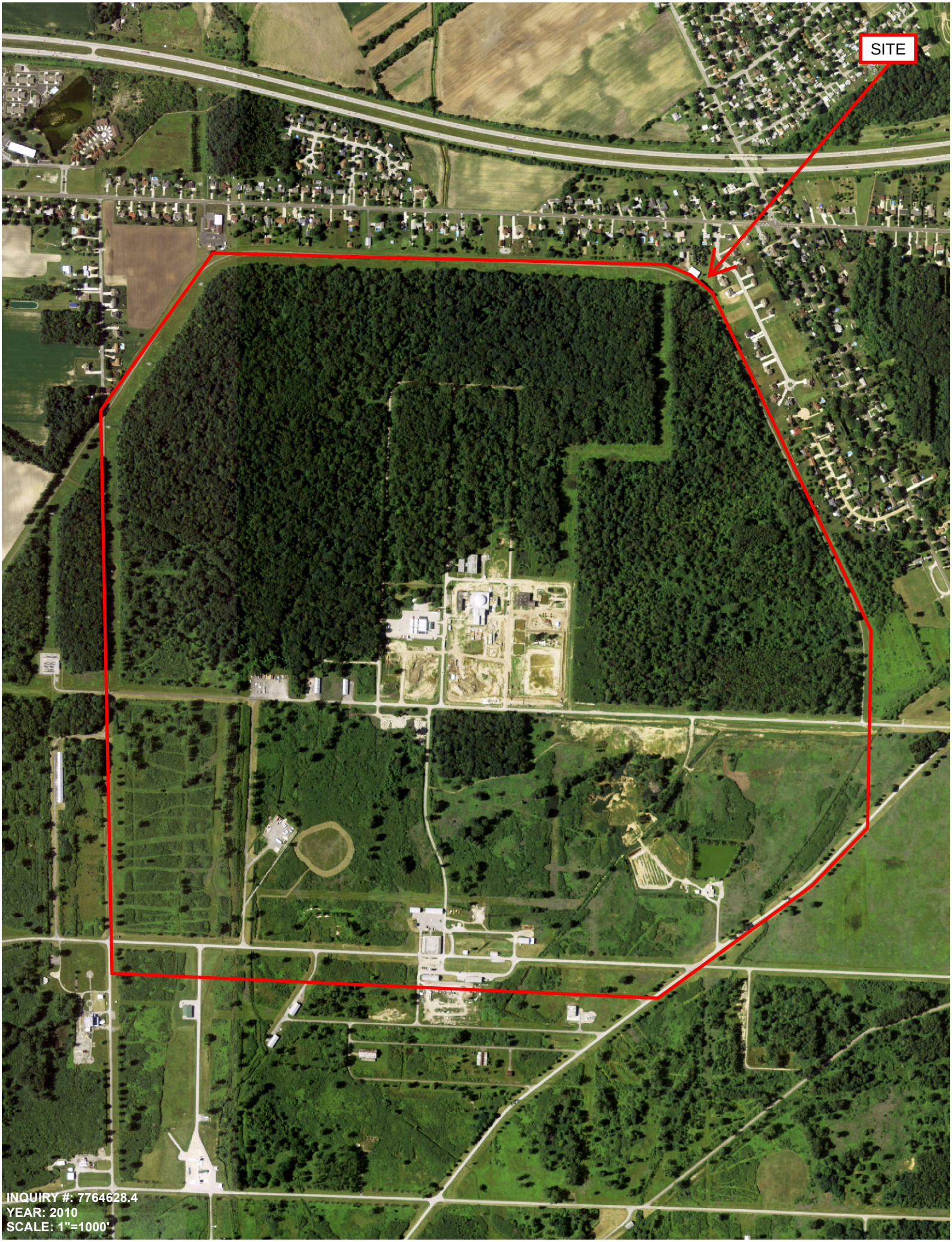
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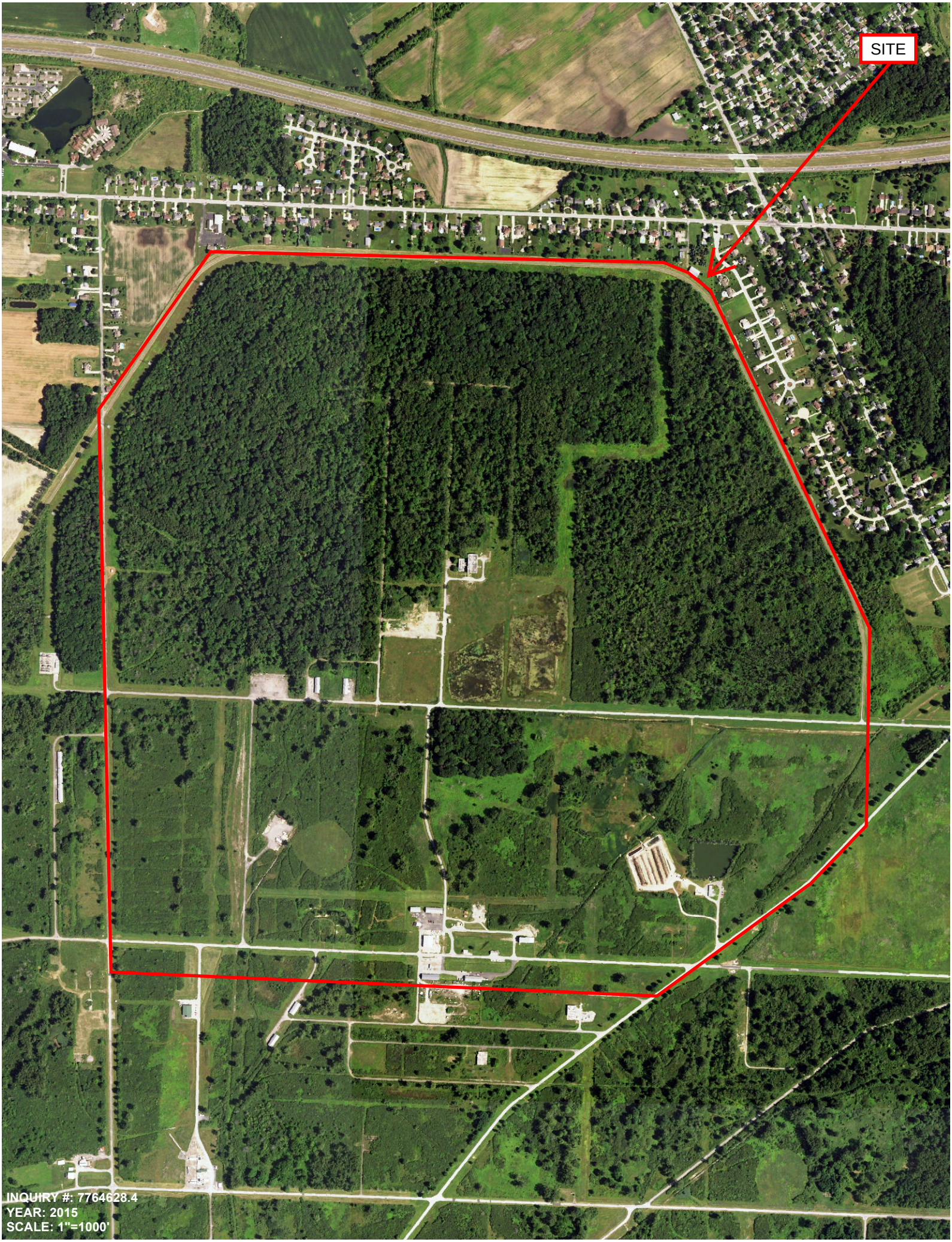
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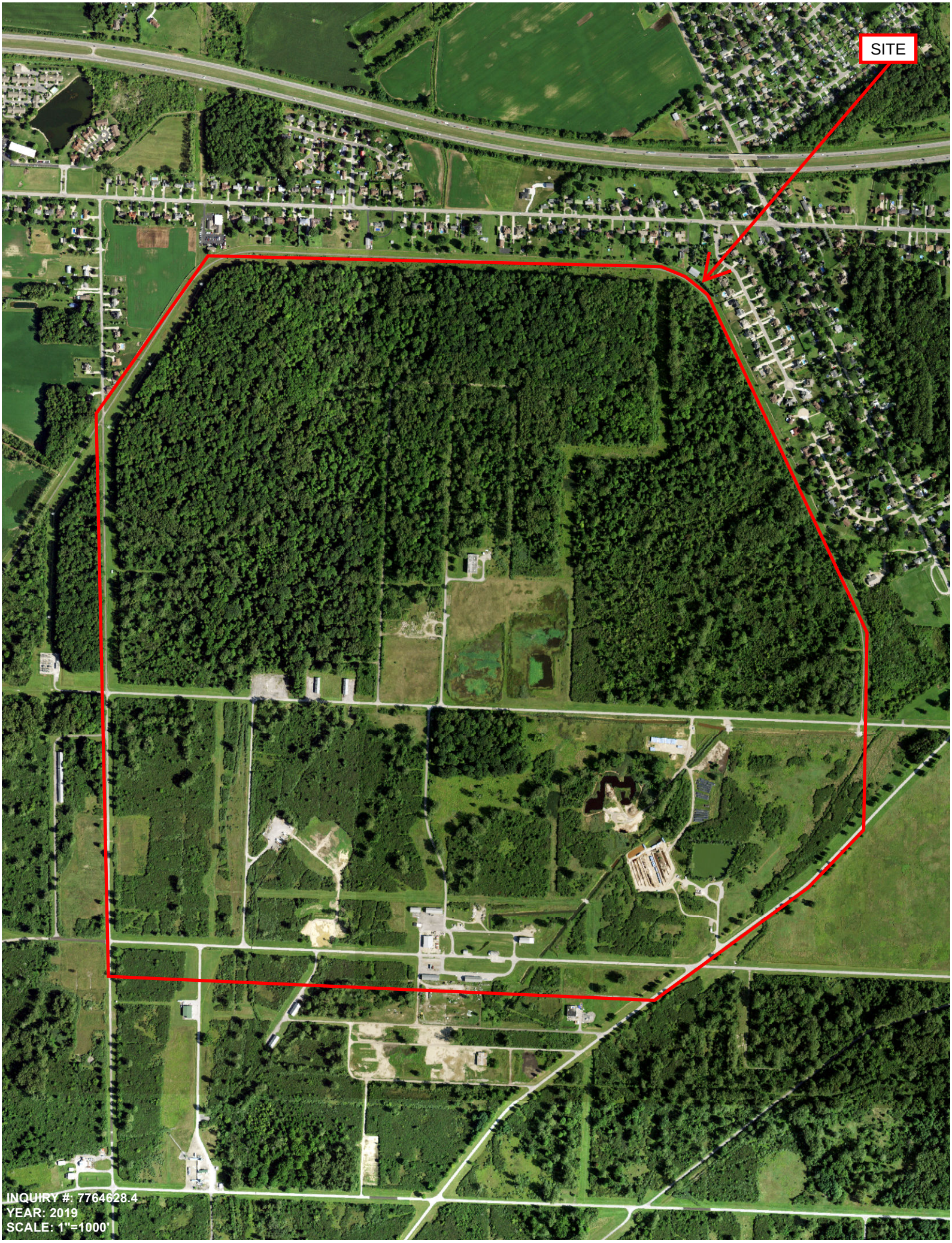
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INQUIRY #: 7764628.4
YEAR: 2019
SCALE: 1"=1000'

GRC North Plot

Taylor Road and Ransom Road

Sandusky, OH 44870

Inquiry Number: 7764628.2

September 17, 2024

Certified Sanborn® Map Report

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

Certified Sanborn® Map Report

09/17/24

Site Name:	Client Name:
GRC North Plot	Terracon
Taylor Road and Ransom Road	12460 Plaza Drive
Sandusky, OH 44870	Parma, OH 44130
EDR Inquiry # 7764628.2	Contact: Kelly Macwhinnie

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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 # CFCF-4060-A538

PO # NA

Project N6247241 ? Task 3

UNMAPPED PROPERTY

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Sanborn® Library search results

Certification #: CFCF-4060-A538

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- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

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GRC North Plot
Taylor Road and Ransom Road
Sandusky, OH 44870

Inquiry Number: 7764628.5
September 18, 2024

The EDR-City Directory Image Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

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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 business directory data at approximately five year intervals.

RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

EDR is licensed to reproduce certain City Directory works by the copyright holders of those works. The purchaser of this EDR City Directory Report may include it in report(s) delivered to a customer.

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*
2020	☐	☑	Cole Information
	☐	☑	EDR Digital Archive
2017	☐	☑	Cole Information
2014	☐	☑	Cole Information
2010	☐	☑	Cole Information
2005	☐	☑	Cole Information
2000	☐	☑	Cole Information
1995	☐	☑	Cole Information
1992	☐	☑	Cole Information
1989	☐	☐	Polk's City Directory
1984	☐	☐	Polk's City Directory
1979	☐	☐	Polk's City Directory
1974	☐	☐	Polk's City Directory
1969	☐	☐	Polk's City Directory
1964	☐	☐	Polk's City Directory

FINDINGS

TARGET PROPERTY STREET

Taylor Road and Ransom Road
Sandusky, OH 44870

Year	*CD Image*	*Source*	
PENTOLITE RD			
2020	-	Cole Information	Target and Adjoining not listed in Source
2017	-	Cole Information	Target and Adjoining not listed in Source
2014	-	Cole Information	Target and Adjoining not listed in Source
2010	-	Cole Information	Target and Adjoining not listed in Source
2005	-	Cole Information	Target and Adjoining not listed in Source
2000	-	Cole Information	Target and Adjoining not listed in Source
1995	-	Cole Information	Target and Adjoining not listed in Source
1992	-	Cole Information	Target and Adjoining not listed in Source
1989	-	Polk's City Directory	Street not listed in Source
1984	-	Polk's City Directory	Street not listed in Source
1979	-	Polk's City Directory	Street not listed in Source
1974	-	Polk's City Directory	Street not listed in Source
1969	-	Polk's City Directory	Street not listed in Source
1964	-	Polk's City Directory	Street not listed in Source

FINDINGS

CROSS STREETS

Year	CD Image	Source	
MAINTENANCE RD			
2020	-	Cole Information	Target and Adjoining not listed in Source
2017	-	Cole Information	Target and Adjoining not listed in Source
2014	-	Cole Information	Target and Adjoining not listed in Source
2010	-	Cole Information	Target and Adjoining not listed in Source
2005	-	Cole Information	Target and Adjoining not listed in Source
2000	-	Cole Information	Target and Adjoining not listed in Source
1995	-	Cole Information	Target and Adjoining not listed in Source
1992	-	Cole Information	Target and Adjoining not listed in Source
1989	-	Polk's City Directory	Street not listed in Source
1984	-	Polk's City Directory	Street not listed in Source
1979	-	Polk's City Directory	Street not listed in Source
1974	-	Polk's City Directory	Street not listed in Source
1969	-	Polk's City Directory	Street not listed in Source
1964	-	Polk's City Directory	Street not listed in Source
PATROL RD			
2020	-	Cole Information	Target and Adjoining not listed in Source
2017	-	Cole Information	Target and Adjoining not listed in Source
2014	-	Cole Information	Target and Adjoining not listed in Source
2010	-	Cole Information	Target and Adjoining not listed in Source
2005	-	Cole Information	Target and Adjoining not listed in Source
2000	-	Cole Information	Target and Adjoining not listed in Source
1995	-	Cole Information	Target and Adjoining not listed in Source
1992	-	Cole Information	Target and Adjoining not listed in Source
1989	-	Polk's City Directory	Street not listed in Source
1984	-	Polk's City Directory	Street not listed in Source
1979	-	Polk's City Directory	Street not listed in Source
1974	-	Polk's City Directory	Street not listed in Source
1969	-	Polk's City Directory	Street not listed in Source

FINDINGS

Year	CD Image	Source	
1964	-	Polk's City Directory	Street not listed in Source

RANSOM RD

2020	pg. A1	EDR Digital Archive	
2017	pg. A2	Cole Information	
2014	pg. A3	Cole Information	
2010	pg. A4	Cole Information	
2005	pg. A5	Cole Information	
2000	pg. A6	Cole Information	
1995	pg. A7	Cole Information	
1992	pg. A8	Cole Information	
1989	-	Polk's City Directory	Street not listed in Source
1984	-	Polk's City Directory	Street not listed in Source
1979	-	Polk's City Directory	Street not listed in Source
1974	-	Polk's City Directory	Street not listed in Source
1969	-	Polk's City Directory	Street not listed in Source
1964	-	Polk's City Directory	Street not listed in Source

City Directory Images

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

RANSOM RD 2020

5011	ADAM SNYDER
	AUSTIN SNYDER
	JOSHUA SNYDER
	MARY SNYDER
	TAMMY SNYDER
	WALTER SNYDER
5017	ROBERT CASTELLO
5109	STEVEN VANNESS
5115	DUSTIN MALOTT
5116	ALAN HUDSON
	CONNIE HUDSON
5119	RICHARD TROUT
	SHARON TROUT
5123	BONNIE WUERTZ
	RICHARD WUERTZ
5208	EVERETT PERFORMANCE
5214	DANIEL AHNER
	DAVID AHNER
	JANIE AHNER
	MICHAEL AHNER
	ROSALYN AHNER
5216	CHRISTOPHER SZULC
	JOANNE SZULC
	PAUL SZULC
5220	DOMINIC JOHNSON
	KAREN JOHNSON
5305	ANNE SINGLER
	CHARLES SINGLER
	RITA SINGLER
	RYAN SINGLER
	SCOTT SINGLER
5306	CONNOR GALLOWAY
	DENNIS GALLOWAY
	SALLY GALLOWAY
5311	DANNY GOSS
	HENRY ONEY
	KIMBERLEE SUTORIUS
	MELINDA GOSS
	WINIFRED GULBRANSEN
7610	CYNTHIA MCCLUNG
	IRON GATE CATTLE
	TIMOTHY MCCLUNG
7704	ASHLEY DEERING
	KEITH DEERING
8002	DANIEL STOBIE
	KELLY STOBIE
	LEONARD DISALVIO
	RITA DISALVIO

Target Street	Cross Street	Source
-	✓	Cole Information

RANSOM RD 2017

5011	SNYDER, WALT G
5017	CASTELLO, ROBERT F
5107	SPEER, RONALD E
5109	VANNESS, STEVEN H
5115	MALOTT, DUSTIN C
5116	HUDSON, ALAN D
5119	TROUT, RICHARD E
5123	WUERTZ, RICHARD C
5200	BOHN, BRIAN L
5208	EVERETT PERFORMANCE MARINE PRODUCTS
5214	AHNER, DANIEL R
5216	SZULC, PAUL J
5220	JOHNSON, DOMINIC J
5305	SINGLER, SCOTT J
5306	GALLOWAY, DENNIS B
7610	MCCLUNG, TIM R
7704	DEERING, KEITH J
8002	DISALVIO, LEONARD T

Target Street	Cross Street	Source
-	✓	Cole Information

RANSOM RD 2014

5011	SNYDER, WALT G
5017	CASTELLO, ROBERT F
5107	SPEER, RUTH E
5109	OCCUPANT UNKNOWN,
5115	MALOTT, DUSTIN C
5116	HUDSON, ALAN D
5119	TROUT, RICHARD E
5123	OCCUPANT UNKNOWN,
5128	WUERTZ, BONNIE
5200	BOHN, BRIAN L
5208	EVERETT PERFORMANCE MARINE PRODUCTS
	OCCUPANT UNKNOWN,
5214	AHNER, DANIEL R
	SMITH, CHRISTOPHER P
5216	SZULC, PAUL J
5220	JOHNSON, DOMINIC J
5305	SINGLER, SCOTT J
5306	GALLOWAY, DENNIS C
5311	SUTORIUS, KIMBERLEE A
7610	MCCLUNG, TIM R
8002	DISALVIO, LEONARD T
8906	LONG, J

Target Street	Cross Street	Source
-	✓	Cole Information

RANSOM RD 2010

5011	SNYDER, TAMMY S
	SYNDER COLLISION
5017	CASTELLO, ROBERT F
5107	SPEER, RUTH E
5116	HUDSON, ALAN D
5119	TROUT, RICHARD E
5123	WUERTZ, RICHARD C
5200	BOHN, BRIAN L
5208	MARINE CONSULTING INC
	WILLIS, TRAVIS
5214	AHNER, TIM L
5216	SZULC, PAUL J
5220	JOHNSON, DOMINIC J
5305	PANDUIT CORP
	SINGLER, SCOTT J
5306	GALLOWAY, DENNIS C
5311	ONEY, HENRY K
7610	MCCLUNG, TIM R
8002	DISALVIO, LEONARD T
8711	STEWART, JAMES
8906	LONG, J
11104	OXFORD TWP CLERKS OFFICE

Target Street	Cross Street	Source
-	✓	Cole Information

RANSOM RD 2005

5017	CASTELLO, ROBERT F
5109	VANNESS, STEVEN H
5115	BARNARD, DONALD A
5116	DUNLAP, TAMARA L
5119	TROUT, RICHARD E
5123	WUERTZ, RICHARD C
5208	WILLIS, TRAVIS
5214	AHNER, TIMOTHY L
5220	JOHNSON, DOMINIC J
5305	SINGLER, SCOTT J
5306	GALLOWAY, DENNIS C
5311	LIZZI, MARK B
7610	MCCLUNG, TIM R
8002	DISALVIO, LEONARD T

Target Street	Cross Street	Source
-	✓	Cole Information

RANSOM RD 2000

5011	MCLAUGHLIN, BECKY A
5017	CASTELLO, ROBERT
5107	SPEER, RUTH E
5119	TROUT, RICHARD
5123	WUERTZ, RICHARD C
5208	SALYERS, LAURIE L
5214	AHNER, TIMOTHY L
5216	SZUCS, PAUL
5220	JOHNSON, DOMINIC
5306	GALLOWAY, DENNIS C
5311	LIZZI, L
7610	MCCLUNG, TIM
8002	WILLIAMS, SCOTT
8508	STEWART, LARRY C
10006	LINDNER, RONALD
10518	DEERING, STEVE

Target Street	Cross Street	Source
-	✓	Cole Information

RANSOM RD 1995

5011	NICKLE, RONALD
5017	CASTELLO, ROBERT
5109	OCCUPANT UNKNOWNN
5115	MCPEEK, WILLIAM S
5119	TROUT, RICHARD
5123	WUERTZ, RICHARD C
5216	SZULC, PAUL
5220	OCCUPANT UNKNOWNN
5306	GALLOWAY, DENNIS C
5311	LIZZI, L
8002	WILLIAMS, SCOTT
11104	OXFORD TOWNSHIP GAR

Target Street	Cross Street	Source
-	✓	Cole Information

RANSOM RD 1992

5011	NICKLE, RONALD
5017	CASTELLO, ROBERT
5115	MCPEEK, EMMA K
5119	TROUT, RICHARD
5123	WUERTZ, RICHARD C
5216	SZULC, PAUL
5220	JOHNSON, DOMINIC
5306	GALLOWAY, DENNIS C
5311	LIZZI, L
8409	MUNOZ, JOEL SR
8417	WILLINGER, DAVID
8508	STEWART, LARRY C
8711	STEWART, BERT C
8715	STEWART, ROBERT
8719	STEWART, JAMES W
8806	JARRETT, MAX
8906	CHILL, KENNETH J
8918	JARRETT, S A
9009	SPENCER, WALTER
9604	GASTIER, MIKE L
9608	CHARLTON, WILLIAM
9918	KAUTZ, DANIEL
10006	WEIMER, K
10010	EBNER, DONALD R
10014	WILSON, B
10018	UTZIG, JOHN
10102	WITTMER, JOHN R
10106	JAMES, CHARLES W
10110	BRETZ, DONALD E
10117	STACKER, REUBEN
10518	DEERING, STEVE
11010	GODDARD, C V
11104	OXFORD TWP GARAGE
11202	DUNLAP, TIMOTHY

ASTM E1527-21 User Questionnaire

Date Completed	February 10, 2025	
Person Completing Questionnaire	Name: Stacey Yanetta Company: NASA	Phone: 216-433-6468 Email: stacey.m.yanetta@nasa.gov
Site Name	**GRC's Armstrong Test Facility**	
Site Address	**3597 Scheid Road, Sandusky, OH 44870**	
Point of Contact for Access	Name: Stacey Yanetta Company:	Phone: Email:
Access Restrictions or Special Site Requirements?	___No __x_Yes (If yes, please explain) Visitor badge required	
Confidentiality Requirements?	___No __x_Yes (If yes, please Explain) Some data provided may be Controlled Unclassified Information (CUI)	
Current Site Owner	Name: NASA Company:	Phone: Email:
Current Site Operator	Name: NASA Company:	Phone: Email:
Reasons for ESA (e.g., financing, acquisition, lease, etc.)	Enhanced Use Leases	
Anticipated Future Site Use	Industrial or commercial, TBD	
Relevant Documents?	Please provide Terracon copies of prior Phase I or II ESAs, Asbestos Surveys, Environmental Permits or Audit documents, Underground Storage Tank documents, Geotechnical Investigations, Site Surveys, Diagrams or Maps, or other relevant reports or documents.	

ASTM User Questionnaire

To qualify for one of the *Landowner Liability Protections (LLPs)* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "*Brownfields Amendments*"), the user must respond to the following inquiries required by 40 C.F.R. §§ 312.25, 312.28, 312.29, 312.30, and 312.31. These inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. The *user* should provide the following information to the *environmental professional*. Failure to conduct these inquiries could result in a determination that "*all appropriate* inquiries" is not complete.

1) Did a search of land title records (or judicial records where appropriate) identify any environmental liens filed or recorded against the site under federal, tribal, state, or local law (40 CFR 312.25)?

__x_No ___Yes (If yes, explain below and send Terracon a copy of the title records or judicial records reviewed.)

2) Did a search of land title records (or judicial records where appropriate) identify any activity and use limitations (AULs), such as engineering controls, land use restrictions, or institutional controls that are in place at the site and/or have been filed or recorded against the site under federal, tribal, state, or local law (40 CFR 312.26)?

There is one land use control (LUC), which is a sitewide groundwater use restriction at ATF that Ohio EPA required to closeout a FUDS site. The LUC was inserted in the GRC Master Plan, but the LUC has not been added to title due to GSA policy that such LUCs be added through the property transfer process. Below is the text from the GRC Master Plan that describes the LUC.

The remediation efforts at Neil A. Armstrong Test Facility (GRC-ATF) by NASA and the Army Corps of Engineers return most areas to residential clean-up standards, but the groundwater presents a costly and near impossible remedial action. Groundwater underlying GRC-ATF shall not be extracted or used for any purpose, potable or otherwise, except for investigation, monitoring or remediation of groundwater, or in conjunction with construction or excavation activities or maintenance of subsurface utilities. Prior to transfer or conveyance of GRC-ATF or any portion thereof, the General Services Administration (GSA) and NASA shall ensure that the prospective purchaser or transferee: i) is aware of the environmental conditions of the property; and ii) agrees, as a condition of the purchase/transfer, to enter into an environmental covenant with the State of Ohio prohibiting the extraction or use of groundwater underlying GRC-ATF for any purpose, potable or otherwise, except for investigation, monitoring or remediation of groundwater, or in conjunction with construction or excavation activities or maintenance of subsurface utilities. In addition, prior to transfer or conveyance of any portion of GRC-ATF that does not meet residential soil standards, GSA and NASA shall ensure that the prospective purchaser or transferee also agrees, as a condition of the purchase/transfer, that the environmental covenant with the State of Ohio shall also prohibit residential use of such property, in addition to the aforementioned groundwater extraction / use prohibition.

___No _x__Yes (If yes, explain below and send Terracon a copy of the title records or judicial records reviewed.)

3) Do you have any specialized knowledge or experience related to the site or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the site or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business (40 CFR 312-28)?

___No _x__Yes (If yes, explain below)

The NASA Environmental Management Office has knowledge of activities conducted on the site that have or may impact the environment. EMO can provide necessary reports, studies, and documents requested by Terracon.

4) Do you have actual knowledge of a lower purchase price because contamination is known or believed to be present at the site (40 CFR 312.29)?

_X__No ___Yes ___Not applicable (If yes or Not applicable, explain below)

5) Are you aware of commonly known or reasonably ascertainable information about the site that would help the environmental professional to identify conditions indicative of releases or threatened releases (40 CFR 312.30)? For example, (a.) Do you know the past uses of the site? (b.) Do you know of specific chemicals that are present or once were present at the site? (c.) Do you know of spills or other chemical releases that have taken place at the site? (d.) Do you know of any environmental cleanups that have taken place at the site?

___No __x_Yes (If yes, explain below)

Multiple remediation activities and tank removals have taken place at GRC-ATF under the CERCLA, RCRA, and BUSTR programs. EMO can provide reports and other documentation of these activities as requested.

6) Based on your knowledge and experience related to the site, are there any obvious indicators that point to the presence or likely presence of releases at the site (40 CFR 312.31)?

___No ___X Yes (If yes, explain below)

See explanation for question #5.

Comments or explanations:

Please return this form with the signed authorization to proceed. **Proposal No. PN6247241**

GRC North Plot
Taylor Road and Ransom Road
Sandusky, OH 44870

Inquiry Number: 7764628.6
September 16, 2024

EDR Environmental Lien and AUL Search

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search

The EDR Environmental Lien Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations (AULs), such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel number and/or legal description
- search for ownership information
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.
- search for publicly available environmental encumbering instrument(s) filed on or after the recording of the current deed; between the recording of the current deed and the most current publicly available date
- provide a copy of any environmental encumbrance(s)
- provide a copy of the current deed when available

Thank you for your business.

Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

Taylor Road and Ransom Road
GRC North Plot
Sandusky, OH 44870

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

AULs: Found ☐ Not Found ☒

RESEARCH SOURCE

Source 1:

Erie Recorder
Erie, OH

PROPERTY INFORMATION

Deed 1:

Type of Deed:	Quit Claim Deed
Title is vested in:	United States of America (NASA)
Title received from:	United States of America (NASA)
Deed Dated	5/17/2016
Deed Recorded:	6/2/2016
Book:	NA
Page:	NA
Volume:	NA
Instrument:	201604571
Docket:	NA
Land Record Comments:	see exhibit
Miscellaneous Comments:	NA
Legal Description:	see exhibit
Legal Current Owner:	United States of America (NASA)
Parcel # / Property Identifier:	32-60001.000
Comments:	see exhibit

Deed Exhibit 1

Transferred
In Compliance with sections 319-202 and 322-02 of the Ohio Revised Code.
FEE $ ____
Exempt: ✓
R.E. TRANSFER:
$ ____
Richard H. Jeffrey
Erie County Auditor
Trans. Fees: $ 50
Date 6/2/16 By: ____

Per O.R.C. 319.203
Erie County Auditor Engineer
Date 6/2/16

When Recorded Return To:

NASA – Glenn Research Center
Attn: John DeGreen
21000 Brookpark Road, MS 21-15
Cleveland, Ohio 44135

QUIT-CLAIM DEED

KNOW ALL MEN BY THESE PRESENTS, THAT the United States of America, acting by and through the Administrator of the National Aeronautics and Space Administration ("NASA"), under and pursuant to the powers and authority contained in the provisions of Section 203 of the National Aeronautics and Space Act of 1958, as amended 51 U.S.C. 20113(c)(1), hereinafter called the "Grantor," represented herein by its authorized Director of the NASA Glenn Research Center of Cleveland, Ohio, whose mailing address is 21000 Brookpark Road, Cleveland, Ohio 44135, claiming title by or through a Warranty Deed from August E. Hemminger to the United States of America, recorded in Volume 209 at Page 540 of the Erie County Office of Recorder, in the State of Ohio, for valuable consideration thereunto given to its full satisfaction of the United States of America, acting by and through NASA, hereinafter called the "Grantee," represented herein by its authorized Director of the NASA Glenn Research Center of Cleveland, Ohio, whose mailing address will be 21000 Brookpark Road, Cleveland, Ohio 44135 do:

GIVE, GRANT, BARGAIN, REMISE, RELEASE AND FOREVER QUIT-CLAIM unto the said Grantee, its heirs and assigns, all right, title and interest as said Grantor has in and to the following described premises, situated in the Township of Oxford, County of Erie, and State of Ohio:

[See Attached Legal Description]

TO HAVE AND TO HOLD the above premises, with the appurtenances thereunto belonging, unto the said Grantee, and its separate heirs and assigns forever.

No title search was performed on the subject property by the preparer of this deed. The preparer of this deed makes no representation as to the status of the title, nor the property use, nor any zoning regulations concerning described property herein conveyed, nor any other matter, except the validity of the form of this instrument. No boundary or location survey was made at the time of this conveyance.

Executed this 17th day of May, 2016.

GRANTOR:

Janet L. Kavandi
Director, NASA Glenn Research Center

STATE OF OHIO)
) **ss:**
CUYAHOGA COUNTY)

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED AND EXECUTED BEFORE ME, on the 17th day of May , 2016, by persons who represented to me to be the Grantor named above.

(SEAL)

NOTARY PUBLIC

This Instrument Prepared By:
National Aeronautics and Space Administration
Office of Chief Counsel – Code G
21000 Brookpark Road
Cleveland, Ohio 44135

SHAWANDA M. GEORGE
NOTARY PUBLIC • STATE OF OHIO
Recorded in Cuyahoga County
My commission expires Apr. 15, 2018

LEGAL DESCRIPTION

Situated in the Township of Perkins, County of Erie, State of Ohio, being part of Lot #6 in Section 1, said Township, being a tract of land containing 37 acres, more or less, acquired by the United States of America in Deed Volume 167, Page 540 (Parcel 1), in the Recorder's Office of Erie County, Ohio, described as follows:

> On the north by the Bogart Road (so-called), on the south by Taylor Road, on the west by lands nor or formerly owned by Lottie B. Taylor et al. and on the east side by lands now or formerly owned by E.G. Holshauer, subject to all legal highways.
>
> EXCEPTING THEREFROM;
>
> Situated in the Township of Perkins, County of Erie, State of Ohio, being part of Lot #6 in Section 1, said Township, being a tract of land containing 26 acres, more or less, acquired by Arthur J. Schlessman in Deed Volume 420, Page 828 (Parcel 2) in the Recorder's Office of Erie County, Ohio, described as follows:
>
> Beginning at the northwest corner of said Lot #6 in the north line of said section 1; thence with the west line of said Lot #6 south 1 degree 53 minutes east 1361.25 feet to a point which is north 1 degree 53 minutes west 950 feet from the center of Taylor Road thence parallel with the north line of said Lot #6 south 89 degrees 05 minutes east 832 feet to a point in the east line of said Lot #6 which is north 1 degree 36 minutes west 200 feet from the center of Taylor Road; thence with the east line of said lot north 1 degree 36 minutes west 1361.25 feet to the northeast corner of said lot thence along the section line north 89 degrees 05 minutes west 832 feet to the place of beginning containing 26 acres, more or less, but subject to the right of way of Bogart Road across the north end thereof.

Containing 11 acres after exception.

GRC NORTH PLOT
TAYLOR ROAD AND RANSOM ROAD
SANDUSKY, OH 44870

Inquiry Number: 7772100.3S
OCTOBER 16, 2024

The EDR 1940 Chain of Title

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

EDR Chain of Title

The EDR Chain of Title Report tracks a line of successive owners from the present back to 1940 of a particular parcel of property, linked together by recorded transactions which pass title. Available nationwide, this report provides a summary of a property's ownership history and is a valuable source for determining the prior uses of a property.

A network of professional abstractors following established procedures, uses client supplied address and/or parcel information to locate:

• Historical Chain of Title research

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

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EDR Chain of Title

TARGET PROPERTY INFORMATION

ADDRESS

GRC NORTH PLOT

PENTOLITE ROAD AND RANSOM ROAD

SANDUSKY, OH 44870

RESEARCH SOURCE

SOURCE 1: ERIE COUNTY RECORDER'S OFFICE

SOURCE 2: ERIE COUNTY ASSESSOR'S OFFICE

EXAMINER'S NOTE: PUBLIC RECORDS OF ERIE COUNTY, OH WERE SEARCHED FROM JANUARY 1, 1940 TO OCTOBER 1, 2024, AND NO OTHER DEEDS VESTING TITLE IN THE SUBJECT PROPERTY WERE FOUND OF RECORD DURING THE PERIOD SEARCHED.

PROPERTY DESCRIPTION

CURRENT OWNER: UNITED STATES AMERICA

LEGAL DESCRIPTION: SEC 1&4 TAYLOR RD 4227.7186A

PROPERTY IDENTIFIERS: 32-60001-000

GENERAL COMMENTS: NA

HISTORICAL CHAIN OF TITLE

SEE EXHIBIT "A"

MISCELLANEOUS

SEE EXHIBIT "B"

CHAIN OF TITLE

EXHIBIT "A"

EDR Chain of Title

HISTORICAL CHAIN OF TITLE

PARCEL 32-60001-000

CHAIN 1

TYPE OF DEED:	WARRANTY DEED
TITLE IS VESTED IN:	UNITED STATES AMERICA
TITLE RECEIVED FROM:	LAWRENCE JOHN HOLKENBORG AND NANCY O HOLKENBORG
DATE EXECUTED:	04/05/1971
DATE RECORDED:	04/05/1971
BOOK:	407
PAGE:	358
INSTRUMENT #:	NA
LAND RECORD COMMENTS:	NA

CHAIN 2

TYPE OF DEED:	WARRANTY DEED
TITLE IS VESTED IN:	UNITED STATES OF AMERICA
TITLE RECEIVED FROM:	PAUL B ZORN AND FLORENCE G ZORN
DATE EXECUTED:	01/16/1970
DATE RECORDED:	01/16/1970
BOOK:	397
PAGE:	721
INSTRUMENT #:	NA
LAND RECORD COMMENTS:	NA

CHAIN 3

TYPE OF DEED:	DEED
TITLE IS VESTED IN:	LAWRENCE JOHN HOLKENBORG AND NANCY O HOLKENBORG
TITLE RECEIVED FROM:	FRANK J NADERER AND MABEL M NADERER
DATE EXECUTED:	12/15/1961
DATE RECORDED:	01/02/1962
BOOK:	323
PAGE:	150
INSTRUMENT #:	NA
LAND RECORD COMMENTS:	NA

EDR Chain of Title

CHAIN 4

TYPE OF DEED:	QUIT CLAIM DEED
TITLE IS VESTED IN:	FRANK J NADERER AND MABEL M NADERER
TITLE RECEIVED FROM:	UNITED STATES OF AMERICA, ACTING BY AND THROUGH THE FEDERAL FARM MORTGAGE CORPORATION
DATE EXECUTED:	06/06/1950
DATE RECORDED:	03/26/1953
BOOK:	240
PAGE:	135
INSTRUMENT #:	NA
LAND RECORD COMMENTS:	NA

CHAIN 5

TYPE OF DEED:	QUIT CLAIM DEED
TITLE IS VESTED IN:	PAUL B ZORN AND FLORENCE G ZORN
TITLE RECEIVED FROM:	UNITED STATES OF AMERICA, ACTING BY AND THROUGH THE FEDERAL FARM MORTGAGE CORPORATION
DATE EXECUTED:	05/02/1950
DATE RECORDED:	05/25/1950
BOOK:	217
PAGE:	199
INSTRUMENT #:	NA
LAND RECORD COMMENTS:	NA

CHAIN 6

TYPE OF DEED:	WARRANTY DEED
TITLE IS VESTED IN:	UNITED STATES OF AMERICA
TITLE RECEIVED FROM:	LLOYD A HILLS AND NELLIE HILLS; MORRIS E HILLS AND ELSA M HILLS; CORA E MEFFERD AND LOUIS P MEFFORD; CLAYTON W HILLS AND FRANKIE HILLS
DATE EXECUTED:	03/22/1941
DATE RECORDED:	05/19/1941
BOOK:	167
PAGE:	477
INSTRUMENT #:	NA
LAND RECORD COMMENTS:	NA

EDR Chain of Title

CHAIN 7

TYPE OF DEED:	WARRANTY DEED
TITLE IS VESTED IN:	UNITED STATES OF AMERICA
TITLE RECEIVED FROM:	ALPHONSE FRITZ
DATE EXECUTED:	03/10/1941
DATE RECORDED:	05/03/1941
BOOK:	167
PAGE:	404
INSTRUMENT #:	NA
LAND RECORD COMMENTS:	NA

CHAIN 8

TYPE OF DEED:	WARRANTY DEED
TITLE IS VESTED IN:	UNITED STATES OF AMERICA
TITLE RECEIVED FROM:	JOHN J BROGLE AND DORIS I BROGLE
DATE EXECUTED:	03/03/1941
DATE RECORDED:	05/03/1941
BOOK:	167
PAGE:	400
INSTRUMENT #:	NA
LAND RECORD COMMENTS:	NA

CHAIN 9

TYPE OF DEED:	WARRANTY DEED
TITLE IS VESTED IN:	UNITED STATES OF AMERICA
TITLE RECEIVED FROM:	JOHN MACBLAIN AND JOSEPHINE MACBLAIN
DATE EXECUTED:	03/03/1941
DATE RECORDED:	05/03/1941
BOOK:	167
PAGE:	397
INSTRUMENT #:	NA
LAND RECORD COMMENTS:	NA

EDR Chain of Title

CHAIN 10

TYPE OF DEED:	UNKNOWN. NOT FOUND IN GRANTOR/GRANTEE INDEX 01/01/1940 to 05/03/1941.
TITLE IS VESTED IN:	JOHN MACBLAIN AND JOSEPHINE MACBLAIN
TITLE RECEIVED FROM:	UNKNOWN. NOT FOUND IN GRANTOR/GRANTEE INDEX 01/01/1940 to 05/03/1941.
DATE EXECUTED:	UNKNOWN. NOT FOUND IN GRANTOR/GRANTEE INDEX 01/01/1940 to 05/03/1941.
DATE RECORDED:	UNKNOWN. NOT FOUND IN GRANTOR/GRANTEE INDEX 01/01/1940 to 05/03/1941.
BOOK:	NA
PAGE:	NA
INSTRUMENT #:	NA
LAND RECORD COMMENTS:	NA

MISCELLANEOUS

EXHIBIT "B"

EDR Chain of Title

MISCELLANEOUS

COMMENTS: NONE IDENTIFIED.

242932

VOL 197 PAGE 358

WARRANTY DEED—No. 104

The Ohio Legal Blank Co. Cleveland
Publishers and Dealers Since 1883
102-375

Know all Men by these Presents

That, LAWRENCE JOHN HOLKENBORG AND NANCY O. HOLKENBORG, Husband and Wife,

, the Grantors ,

who claim title by or through instrument , recorded in Volume 323 *, Page* 150 *,*

County Recorder's Office, for the consideration of Ten Dollars and other Good and Valuable Consideration *Dollars* ($ 10.00)

received to their *full satisfaction of*

The United States of America, and its assigns

the Grantee ,

whose TAX MAILING ADDRESS will be

do

Give, Grant, Bargain, Sell and Convey *unto the said Grantee* , and its ~~heirs and~~ *assigns, the following described premises, situated in the* Townships *of* Perkins and Huron *, County of* Erie *and State of Ohio:*

Situated in the County of Erie and State of Ohio and described as follows:

Parcel No. 1: Situated in the Township of Perkins, County of Erie and State of Ohio, being a part of Lots No. 9 and 10 of a 1620 acre tract in Section 1 of said Township as follows:

Beginning at a point in a chain link fence said point being in the center of Fox Road and north 40° 14' east 1106.14 feet from the southwesterly corner of said Lot No. 9; thence along the south line of land formerly owned by Harry J. Miller north 88° 18' east 1108 feet to an iron pipe in the east line of said Lot No. 10; thence with said lot line south 2° 00' east 170 feet to the northeast corner of land formerly owned by Alphonse Fitz et ux; thence with the line of the Fitz land south 88° 18' west 1260 feet to a chain link fence; thence with said fence north 14° 52' west 91 feet to the center of Fox Road; thence with the center of said road north 40° 14' east 106.00 feet to the place of beginning, containing 4.81 acres more or less but subject to the right of way of Fox Road across the northwest end thereof.

Parcel No. 2: Situated in the Township of Perkins, County of Erie, and State of Ohio, being a part of Lots No. 9 and 10 of a 1620 acre tract in Section 1 of said Township described as follows:

Beginning at the southeast corner of said Lot No. 10; thence with the north line of land formerly owned by Lloyd A. Hills et al north 88° 42' west 712 feet to an iron pipe; thence north 18° 17' west 455 feet to an iron pipe; thence north 88° 42' west 256 feet to an iron pipe in a chain link fence; thence with said fence north 14° 52' west 269 feet to the south line of a tract formerly owned by John J. and Doris I. Brogle; thence with Brogle's line north 88° 18' east 1260 feet to the east line of said Lot No. 10; thence with the east line of said Lot No. 10 and the east line of Perkins Township south 2° 00' east 731 feet to the place of beginning containing 20.36 acres more or less.

Parcel No. 3: Situated in the Township of Perkins, County of Erie, and State of Ohio, being a part of Lot No. 9, Section No. 4, and more definitely described as follows:

Commencing at an iron pin in the Township Line, 1243.9 feet south from the northwest corner of said Lot No. 9; thence south in the Lot and Township Line 537.6 feet to an iron pin; thence south 88° 48' east 888.8 feet to the center line of the Milan Road; thence north 15° 51' west in the center of the Milan Road 561.8 feet to the southeast corner of lands of John Didelius; thence north 88° 48' west along the Didelius south line, 734.3 feet to the place of beginning, containing 10 acres of land, according to a survey made by L. A. Schultz, Civil Engineer.

Parcel No. 4: Situated in the Township of Huron, County of Erie, and State of Ohio, being a part of Lot No. 9, Section No. 4 and more definitely described as follows:

Being part of Lot 9, beginning at the southwest corner of said Lot 9; thence south 86° 37' east 1021.6 feet to the center of the Sandusky-Milan Road; thence north 15° 52' west in the center line of said road 484.4 feet; thence north 88° 51' west 887.5 feet to the west line of Lot 9; thence south 424.0 feet in said lot line to the place of beginning and containing 9.60 acres, more or less, excepting therefrom that part thereof conveyed to Jacob Herren and Christiana Herren by Deed dated August 2, 1919, and recorded in Volume 111 of Deeds, page 39, Erie County Records.

Containing in all, 41.77 acres, more or less, but subject to all legal highways.

Excepting therefrom the following described parcel:

Situated in the Township of Huron, County of Erie, and State of Ohio, being a part of Lot No. 9, Section No. 4, described as follows:

Beginning at an iron pin in the Township line, 1243.9 feet south from the northwest corner of said Lot No. 9; thence south 88° 48' east, 378.66 feet to a point and the principle place of beginning this description; thence continuing south 88° 48' east, 355.64 feet to the southeast corner of lands of John Didelius, said point being also the centerline of Milan Road; thence south 15° 51' east along the centerline of the said Milan Road 561.8 feet to a point; thence continuing along the centerline of said Milan Road south 15° 52' east, 264.4 feet to the northeast corner of a parcel of land conveyed to Arthur J. Schlessman and Robert N. Schlessman by Deed dated June 8, 1965, and recorded in Volume 355, page 395 of Erie County Deed Records; thence north 86° 37' west along the north line of Arthur and Robert Schlessman, 360.14 feet to a point; thence north 15° 51' west, 793.85 feet to a point and the place of beginning and containing 6.25 acres of land, be the same more or less and subject to all legal highways.

Excepting and reserving to the grantors, their heirs and assigns, a ten-year estate in the herein conveyed premises in accordance with the terms and conditions set forth in the Indenture filed herewith and made a part of this Deed.

This Conveyance has been examined and the Grantor has complied with Section 319.202 of the Revised Code.

FEE $ _____

EXEMPT ✓

GERALD SCHWEINFURTH, County Auditor

be the same more or less, but subject to all legal highways.

To Have and to Hold *the above granted and bargained premises, with the appurtenances thereof, unto the said Grantee* , and its ~~heirs and~~ *assigns forever.*

And we , Lawrence John Holkenborg and Nancy O. Holkenborg,

the said Grantors , do for ourselves *and* our *heirs, executors and administrators, covenant with the said Grantee* , and its ~~heirs and~~ *assigns, that at and until the ensealing of these presents,* we

well seized of the above described premises, as a good and indefeasible estate in FEE SIMPLE, and have good right to bargain and sell the same in manner and form as above written, and that the same are **free from all incumbrances whatsoever**, except, and subject to, easements and restrictions of record recorded in Volume 240, page 135, of Erie County Records, and a right-of-way recorded in Volume 8, page 76, of Erie County Miscellaneous Records.

INDENTURE

THIS INDENTURE, made between Lawrence John and Nancy O. Holkenborg husband and wife party of the first part, and the United States of America, party of the second part (hereinafter also referred to as the Government) represented by the Contracting Officer of the National Aeronautics and Space Administration executing this Indenture.

1. The party of the first part is to have and hold the premises described in the deed transferring title to the United States of America and its assigns, of which this Indenture is a part, for a term of 10 years, beginning on the date said deed is filed for record. At the end of the 10 year term, the party of the first part may request that he be permitted to remain in possession for an additional period of up to 5 years. Any additional period shall be at the sole option of the Government and at such price as may be mutually agreed upon by the parties.

2. Except as otherwise provided herein the party of the first part is to use the premises exclusively for the same purposes and to the same extent as the premises were used by the party of the first part prior to the acquisition of the fee simple estate by the Government.

3. Activities conducted on the Government's adjacent premises, presently known as the Plum Brook Station, may tend to disrupt, interfere with, damage or otherwise harm the party of the first part's peaceful possession and quiet enjoyment of the premises. The party of the first part agrees, as part of the consideration received from the Government, that (a) any such disruption, interference with, or damage or other harm to, the party of the first part's said rights of peaceful possession and quiet enjoyment shall not constitute a taking of property requiring the payment of compensation; and (b) the party of the first part will not seek amelioration, abatement or discontinuance of any disruption, interference with, or damage or other harm to, said rights of peaceful possession and quiet enjoyment by injunction or other equitable relief.

4. As of the date of creation of this estate for years, an inventory and condition report of all personal property and improvements on the land described in the deed of which this Indenture is a part shall be made by a representative of the party of the first part and a representative of the Government to reflect the then present condition of said property. A copy of said inventory and condition report shall be attached hereto and become a part hereof, as fully as if originally incorporated herein. Upon the expiration, surrender, extinguishment, diminution or other termination in whole or in part of this estate for years a similar inventory and condition report shall be prepared and submitted to the Government, said inventory and condition report to constitute the basis for

settlement by the party of the first part with the Government for property shown to be lost, damaged, or destroyed, any such property to be either replaced or restored to the condition required by Condition No. 27 hereof, or at the election of the Government reimbursement made therefor by the party of the first part at the then current market value thereof.

5. The party of the first part warrants that he has inspected and knows the condition of the property and it is understood that the Government makes no representation or warranty with respect thereto whatsoever, and assumes no obligation to make any alterations, repairs, or additions thereto.

6. The party of the first part shall neither transfer nor assign his estate or any property on the premises, nor sublet the premises or any part thereof or any property thereon, nor grant any interest, privilege, or license whatsoever under this estate for years without permission in writing from the Government.

7. The party of the first part agrees that no dwelling, building, or structure not on the premises on the date of creation of the estate for years shall be constructed or erected or caused to be maintained thereon and that no improvements, changes, alterations, or addition shall be made or caused to be made to any dwelling, building, or structure on the premises, (a) which does or could have the effect of increasing the number of families, persons, or livestock resident or quartered on the premises; and (b) unless plans therefor have first been submitted to and approved in writing by the Government. The Government shall have the right to refuse to grant any such approval whenever, in its sole discretion the plan is not deemed to be in the best interest of the Government, and such refusal shall not constitute a taking of property requiring the payment of compensation.

8. The party of the first part shall at all times maintain and keep all portions of the premises in good and sufficient repair, order and condition, so that the same shall be in as good a condition as it was at the time of the creation of the estate for years and all such repairs shall be made in a good and workmanlike manner; should the party of the first part fail to make any such repairs within ten (10) days after receipt of notice from the Government, the Government may cause the same to be made and charge the party of the first part for the cost thereof.

9. The party of the first part agrees to keep and maintain the premises, including all dwellings, buildings, structures, walks, drives, grass, yard, and field areas thereof, at all times in a good, clean, mowed, safe, sanitary, and wholesome condition, free from any defects, dirt, filth, garbage, rubbish, trash, waste, or undesirable accumulations. If after due notice thereof, the party of the first part fails to keep such premises in a good, clean, mowed, safe, sanitary, and wholesome condition as required herein, the Government shall have the right to enter upon the premises to perform the necessary services and charge the cost thereof to the party of the first part.

10. The party of the first part shall cut no timber, conduct no mining or drilling operations, remove no sand, gravel or kindred substances from the ground, commit no waste of any kind, or in any manner substantially change the contour or condition of the leased premises, except changes necessary to improve or preserve the nature, quality, and condition of the premises; and shall do, in proper and seasonable times of the year, and in a proper manner, all things necessary to the preservation and maintenance of the quality and condition of the premises.

11. The United States shall not be responsible for damages to property or injuries to persons which may arise from or be incident to the use and occupation of the said premises by the party of the first part or for damages to the property of such party or for injuries to the person of the party of the first part, or for damages to the property or injuries to the person of the party of the first part's officers, agents, servants, or employees, or others who may be on said premises at their invitation or the invitation of any one of them, and the party of the first part shall hold the United States harmless from any and all such claims.

12. The party of the first part shall at all times exercise due diligence in the protection of the premises against damage or destruction by fire and other causes.

13. Any property of the United States on the premises damaged or destroyed by the party of the first part incident to such party's use and occupation of the said property shall be promptly repaired or replaced by the party of the first part to the satisfaction of the Government or in lieu of such repair or replacement the party of the first part shall, if so required by the Government, pay to the United States money in an amount sufficient to compensate for the loss sustained by the United States by reason of damages to, or dstruction of, Government property.

14. The Government shall have the right to prescribe such rules, regulations, and procedures governing the safety, security, sanitation, and control of the premises as it, in its sole discretion, may deem necessary to preserve and protect the interest of the United States Government in connection with the activities being conducted at its Plum Brook Station.

15. The Government shall have the right to exclude, require removal of, or remove, any persons or animals from the premises, and to prohibit the habitation or occupancy or presence on the premises of any and all persons and animals for reasonable periods of time, not in excess of five (5) calendar days in any one instance, by giving the party of the first part due notice to that effect.

16. The Government shall have the right to enter upon the premises for the purpose of performing or conducting, or to place and maintain thereon such instruments and devices to aid and assist in performing or conducting, such inspections and tests

as the Government, in its sole discretion shall deem necessary to determine and/or detect if the activities carried on, or to be carried on, at the Plum Brook Station will have or have had any dangerous, noxious, harmful, or otherwise adverse effects on the health, safety, or comfort of any persons or animals on the premises.

17. The Government shall have the right from time to time to enter upon the premises to perform maintenance and make such changes to the Government-owned fence and adjacent property as the Government deems necessary.

18. The party of the first part shall comply with all applicable laws, ordinances, and regulations of the State, county, and municipality wherein the said premises are located.

19. The party of the first part shall pay to the proper authority, when and as the same becomes due and payable, all taxes, assessments, and similar charges, which, at any time during the term of this estate for years may be taxed, assessed, or imposed upon the Government or upon the party of the first part with respect to or upon the premises. In the event any taxes, assessments, or similar charges are imposed with the consent of the Congress upon property owned by the Government and included in this estate for years, an equitable adjustment in the price paid by the Government for the fee simple estate shall be negotiated; provided that, in the event that the parties hereto are unable to agree, within ninety (90) days from the date of imposition of such taxes, assessments, or similar charges, on an adjustment, then, in such event, the Government shall have the right to unilaterally determine the amount of, such adjustment which determination shall be binding on the party of the first part subject to appeal in accordance with Condition No. 20 of this Indenture.

20. (a) Except as otherwise provided in this Indenture, any dispute concerning a question of fact arising under this Indenture which is not disposed of by agreement shall be decided by the Government's Contracting Officer, who shall reduce his decision to writing and mail or otherwise furnish a copy thereof to the party of the first part. The decision of the said officer shall be final and conclusive unless, within thirty (30) days from the date of receipt of such copy, the party of the first part mails or otherwise furnishes to the said officer a written appeal addressed to the Administrator of the National Aeronautics and Space Administration. The decision of the Administrator or his duly authorized representative for the determination of such appeals shall be final and conclusive unless determined by a court of competent jurisdiction to have been fraudulent, or capricious, or arbitrary, or so grossly erroneous as necessarily to imply bad faith, or not supported by substantial evidence. In connection with any appeal proceeding under this Condition, the party of the first part shall be afforded an opportunity to be heard and to offer evidence in support of his appeal. Pending final decision of a dispute hereunder, the party of the first part shall proceed diligently in accordance with the said Contracting Officer's initial decision.

(b) This Condition does not preclude consideration of law questions in connection with decision provided for in paragraph (a) above: Provided, that nothing in this Condition shall be construed as making final the decision of any administrative official, representative, or board on a question of law.

21. This estate for years may be surrendered to the Government or terminated by the party of the first part at any time by giving to the Government at least ten (10) days notice in writing provided that, in case of such surrender or termination, the United States shall not be liable to pay any amount for the interest surrendered or terminated.

22. The party of the first part shall pay the cost, as determined by the Government of producing and/or supplying any utilities and other services furnished by the Government or through Government-owned facilities for the use of the party of the first part, including that party's proportionate share of the cost of operation and maintenance of the Government-owned facilities by which such utilities or services are produced or supplied. The Government shall be under no obligation to furnish utilities or services. Payment shall be made in the manner prescribed by the Government upon bills rendered monthly.

23. For such period as the party of the first part is in possession of the premises pursuant to the provisions and conditions of this Indenture the party of the first part shall procure and maintain at his expense a standard fire and extended coverage insurance policy or policies on the property to the full insurable value thereof. The party of the first part shall procure such insurance from any responsible company or companies. The policy or policies evidencing such insurance shall provide that in the event of loss thereunder the proceeds of the policy or policies, at the election of the Government, shall be payable to the party of the first part to be used solely for the repair, restoration, or replacement of the property damaged or destroyed, any balance of the proceeds not required for the repair, restoration, or replacement of the property damaged or destroyed to be paid to the Government, and that in the event the Government does not elect by notice in writing to the insurer within sixty (60) days after the damage or destruction occurs to have the proceeds paid to the party of the first part for the purposes hereinabove set forth, then such proceeds shall be paid to the Government, provided however, that the insurer, after payment of any proceeds to the party of the first part in accordance with the provisions of the policy or policies, shall have no obligation or liability with respect to the use or disposition of the proceeds by the party of the first part. Nothing herein contained shall be construed as an obligation upon the Government to repair, restore, or replace the property or any part thereof. If the Government elects to accept the proceeds and not repair, restore, or replace the property damaged or destroyed, then an equitable adjustment in the price paid by the Government for the fee simple estate shall be negotiated. In the event that the parties hereto are unable to agree, within ninety (90) days from the date of such election on an equitable adjustment then the Government shall have the right to unilaterally determine the amount of such adjustment, which determination shall be binding on the party of the first part subject to appeal in accordance with Condition No. 20 of this Indenture.

24. No Member of or Delegate to Congress or Resident Commissioner shall be admitted to any share or part of this estate for years or to any benefits to arise therefrom. Nothing, however, herein contained shall be construed to extend to any incorporated company, if the estate for years be for the general benefit of such corporation or company.

25. The party of the first part shall maintain, in a manner satisfactory to the Government, terraces and other soil and water conservation structures that may be in existence upon said premises at the beginning of or that may be constructed during the term of this estate for years, and the use of the said premises by the party of the first part shall be in accordance with good soil conservation practices.

26. Hunting and fishing shall not be permitted, except in areas designated by the Government.

27. On or before the date of expiration of this estate for years or its surrender or termination by the party of the first part, such party shall at his own expense vacate the premises, remove his property therefrom, and restore the premises to as good order and condition as that existing upon the date of commencement of the term of this estate for years less ordinary wear and tear and damage to the property covered by insurance and for which the Government shall receive or has received insurance funds in lieu of having the damaged property repaired, replaced, or restored. If, however, this estate for years is extinguished by the Government under Condition No. 32 hereof, the party of the first part shall vacate the premises, remove his property therefrom, and restore the premises to the condition aforesaid within such time as the Government may designate, except as otherwise provided in Condition No. 32 hereof. In either event, and except as otherwise provided in Condition No. 32 hereof, if the party of the first part shall fail or neglect to remove his property and so restore the premises, then, at the option of the Government, the property of the party of the first part shall either become the property of the United States without compensation therefor, or the Government may cause it to be removed and the property to be so restored at the expense of the party of the first part and no claim for damages against the United States or its officers or agents shall be created by or made on account of such removal and restoration work.

28. If the party of the first part is comprised of more than one person (natural or corporate) the obligations of such persons (natural or corporate) herein contained shall be joint and several obligations.

29. The Government's authorized agents for all purposes under this Indenture shall be duly appointed Contracting Officers. Except as otherwise specifically provided, any reference herein to "Contracting Officer" shall include his duly appointed successors and his authorized representatives.

30. All notices to be given pursuant to this Indenture shall be addressed, if to the party of the first part, to

Mr. & Mrs. Lawrence J. Holkenborg
Milan Road, R.D. #1
Sandusky, Ohio 44870

if to the Government, to

National Aeronautics & Space Administation
Lewis Research Center
21000 Brookpark Road
Cleveland, Ohio 44135

Attention: Director

or as may from time to time otherwise be directed by the parties. Notice shall be deemed to have been duly given if and when enclosed in a properly sealed envelope, or wrapper, addressed as aforesaid, and deposited postage prepaid (or, if mailed by the Government, deposited under its franking privilege) in a post office or branch post office regularly maintained by the United States Government.

31. The party of the first part warrants that no person or selling agency has been employed or retained to solicit or secure this Indenture upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bona fide employees or bona fide established commercial or selling agencies maintained by the party of the first part for the purpose of securing business. For breach or violation of this warranty the Government shall have the right to annul this Indenture without liability or in its discretion to require the party of the first part to pay, in addition to the consideration, the full amount of such commission, percentage, brokerage, or contingent fee.

32. The Government has the right to extinguish or diminish the estate for years as to all or part of the land described in the deed of which this Indenture is a part whenever in its sole discretion this is necessary in the interests of the activity being conducted at the Plum Brook Station; provided that it promptly negotiates an equitable adjustment in the consideration paid for the acquisition of the fee simple interest in such land. If at the time the estate for years is extinguished or diminished the premises affected are being used for agricultural purposes, the party of the first part shall have right to harvest, gather, and remove from said land such crops as may have been planted or grown on said land, or, in the alternative, the Government may require the party of the first part to vacate immediately and compensate him for the value of the

crops remaining upon said land. Any equitable adjustment or right to harvest, gather, and remove crops shall be evidenced by a supplemental agreement, in writing, executed by the Government and the party of the first part. In the event that the parties hereto are unable to agree, within ninety (90) days from the date of the extinguishment or diminution of the estate for years, the Government shall have the right to unilaterally determine the amount of the equitable adjustment, which determines shall be binding on the party of the first part subject to appeal in accordance with Condition No. 20 of this Indenture.

33. The Government shall have the right to enter upon the premises at any time and for any purpose necessary to accomplish or enforce the terms and conditions of this agreement.

34. Participation in allotment and feed grain crop programs is not prohibited.

35. Before the execution of this Indenture, conditions were deleted, revised, and added in the following manner:

36. All nursery stock on the premises on the date the fee interest is conveyed to the United States of America shall remain the property of the party of the first part and such party has the right to cut or otherwise remove any and all such nursery stock at his own expense at any time prior to the expiration of the estate for years or any extension thereof. In the event the nursery stock is not removed prior to the expiration of the estate for years or any extension thereof, the right of removal shall terminate, and the nursery stock shall without further action by either party become the property of the United States without additional compensation therefor. The party of the first part also agrees not to make any more plantings on the land subject to this Indenture after the date that the fee interest therein is conveyed to the United States of America, provided, however, that the party of the first part may transplant not more than 500 plantings on and to the land subject to this Indenture, provided that all of such transplantings shall have been completed within two (2) years after the date that the fee interest in such land shall have been conveyed to the United States of America.

37. The foregoing conditions of this Indenture are hereby modified as follows:

a. Conditions Nos. 4 and 27 are modified to provide that the party of the first part shall have no obligation to bring in fill dirt or soil to fill in any excavated areas caused by the removal of nursery stock, but he shall be required to push into such excavations any soil located near such excavations and to level the site as much as practicable at the time planting is removed.

b. There is added to Condition No. 6 the following sentence:

"The Government shall not unreasonably withhold permission to sublet said premises."

(see continuation)

IN WITNESS WHEREOF the parties hereto have executed this Indenture this

23rd day of February 19 71.

Signed and ackowledged in the presence of:

Party of the First Part

Mary R. Lucomb

Ida L. Nielson

Lawrence John Holkenburg

Nancy O. Holkenburg

Party of the Second Part
United States of America

by Bruce T. Lundin

Director - Lewis Research Center
Title

(continued from page 8)

c. Condition No. 8, being inapplicable, is deleted in its entirety.

d. The following is added to Condition No. 9:

Provided, however, that the party of the first part may continue to use said premises in the same manner and to the same extent as said party did prior to the acquisition of said premises by the Government, subject to the provisions of Condition 36. Such use shall include the storage and disposal of woodchips, manure, logs, mulch, brush, and the continued use of the so-called burning area for the burning of brush, logs, and the like.

e. The following is added to Condition No. 15:

In the event the party of the first part shall incur any loss or damage to his nursery stock by reason of such exclusion, an equitable adjustment shall be made by the Government to compensate the party of the first part for such loss or damage. Reasonable notice shall be given to the party of the first part of Government's intention to exercise the right provided for herein, if in the Government's opinion, time and other conditions allow for such notice.

f. The following is added to Condition No. 22:

The party of the first part shall not, however, pay any costs for utilities and/or other services which are not, in fact, used by the party of the first part.

g. Condition No. 23, being inapplicable, is deleted in its entirety.

h. The following is added to Condition No. 32:

Any reference in this condition to "crops" shall not include the nursery stock of the party of the first part. In the event the Government exercises its right to extinguish or diminish the estate for years, an equitable adjustment of the loss to the party of the first part, including, but not necessarily limited to, his loss of nursery stock, shall be mutually agreed upon and the party of the first part shall be promptly compensated for such loss.

and that we *will* **Warrant and Defend** *said premises, with the appurtenances thereunto belonging, to the said Grantee* , and its ~~XXXXXXXXX~~ *assigns, against all lawful claims and demands whatsoever*, except as noted above.

And for valuable consideration

Lawrence John Holkenborg and Nancy O. Holkenborg

do hereby remise, release and forever quit-claim unto the said Grantee , and its ~~XXXXXXXX~~ *assigns, all* their *right and expectancy of* **Dower** *in the above described premises.*

In Witness Whereof, we *have hereunto set* our *hands, the* 5th *day of* April *, in the year of our Lord one thousand nine hundred and* Seventy-one

Signed and acknowledged in presence of

Richard D. Holzapfel — Lawrence John Holkenborg
Faith L. Fleischer — Nancy O. Holkenborg

State of Ohio, ERIE *County,* } *ss.* *Before me, a* Notary Public *in and for said County and State, personally appeared the above named* Lawrence John Holkenborg and Nancy O. Holkenborg, husband and wife

who acknowledged that they *did sign the foregoing instrument and that the same is* their *free act and deed.*

In Testimony Whereof, *I have hereunto set my hand and official seal, at* Sandusky, Ohio *, this* 5th *day of* April *A. D. 1971*

Richard D. Holzapfel
Notary Public

This instrument was prepared by
Edward A. Zak
Attorney at Law

242932

Warranty Deed

FILED

1971 APR 5 PM 12 05

CARL A SPEIR
RECORDER
ERIE COUNTY OHIO

TO

TAX MAILING ADDRESS

J.G.S.

Transferred April - 5, 1971

Gwalle H. Schwenfurth
COUNTY AUDITOR

Fee - 2.10 H.

State of Ohio

County of Erie ss

Received for Record on the

5th day of April 19 71

at 12:05 o'clock P. M.

and Recorded April 6 19 71 in

Deed Book 407 Page 358-371 Incl.

Carl A. Speir
COUNTY RECORDER.

Recorders Fee $ 15.00 Paid

MICROFILMED

OHIO TITLE CORPORATION
P. O. BOX 975
SANDUSKY, OHIO 44870

VOL 407 PAGE 371

WARRANTY DEED—No. 102A

The Ohio Legal Blank Co, Cleveland
Publishers and Dealers Since 1883

Know all Men by these Presents

That, Paul B. Zorn and Florence G. Zorn, husband and wife,

, the Grantor s ;

who claim title by or through instrument , recorded in Volume 217 *, Page* 199 ,

County Recorder's Office, for the consideration of Ten Dollars and other good and valuable consideration *Dollars* ($ 10.00)

received to their *full satisfaction of*

The United States of America and its assigns

the Grantee ,

whose TAX MAILING ADDRESS will be

do

Give, Grant, Bargain, Sell and Convey *unto the said Grantee* , and its ~~heirs and~~ *assigns, the following described premises, situated in the* Township *of* Perkins *, County of* Erie *and State of Ohio:*

Situated in the Township of Perkins, County of Erie and State of Ohio, being a part of Section 1 of said Township described as follows:

Beginning at a point in the Township line at the southeast corner of Lot 10 of a 1620 acre tract in said Section 1; thence along the Township line south 2° 00' east 476 feet to a branch; thence with said branch south 46° west 265 feet and south 66° west 225 feet and north 88° 42' west along the line of land formerly owned by Leroy Hills et al 200 feet to an iron pipe; thence north 18° 17' west 760 feet to an iron pipe in the south line of land formerly owned by Alphonse Fitz et ux; thence with the south line of the Fitz land and the south line of Lot 10 aforesaid south 88° 42' east 712 feet to the place of beginning containing 9.84 acres, more or less. Being a part of the land acquired by the United States of America from Morris E. Hills et al under a deed of record in Deed Book 167, page 477 in the Recorder's Office of Erie County, Ohio.

Also: Situated in the Township of Perkins, County of Erie, and State of Ohio, being a part of Section 1 in said Township, described as follows:

Beginning at a point in the Township line south 2° 00' east 476 feet from the southeast corner of Lot 10 of a 1620 acre tract in said Section 1; thence along the Township line south 2° 00' east 1917 feet to an iron pipe; thence north 18° 17' west 1762 feet to an iron pipe in the south line of land formerly owned by Lloyd A. Hills; thence south 88° 42' east 200 feet to a branch; thence with said branch north 66° east 225 feet and north 46° east 265 feet to the place of beginning containing 10.82 acres. Together with an easement for ingress and egress 20 feet in width the west and north sides of said easement being described as follows:

Beginning at a point 100 feet south of the northeast corner of the above described land; thence north along the east line thereof to the northwest corner of land formerly owned by Earl and Edith Hart; thence along Hart's north line eastwardly to U.S. Highway 250.

Excepting and reserving to the grantors, their heirs and assigns, a ten year estate in the herein conveyed premises in accordance with the terms and conditions set forth in the Indenture attached to, filed with, and made a part of this deed.

This Conveyance has been examined and the Grantor has complied with Section 319.202 of the Revised Code.

FEE $ _____

EXEMPT ____

GERALD SCHWEINFURTH, County Auditor

~~be the same more or less, but subject to all legal highways.~~

INDENTURE

THIS INDENTURE, made between Paul B. Zorn and Florence G. Zorn, Husband and Wife

party of the first part, and the United States of America, party of the second part (hereinafter also referred to as the Government) represented by the Contracting Officer of the National Aeronautics and Space Administration executing this Indenture.

1. The party of the first part is to have and hold the premises described in the deed transferring title to the United States of America and its assigns, of which this Indenture is a part, for a term of 10 years, beginning on the date said deed is filed for record. At the end of the 10 year term, the party of the first part may request that he be permitted to remain in possession for an additional period of up to 5 years. Any additional period shall be at the sole option of the Government and at such price as may be mutually agreed upon by the parties.

2. Except as otherwise provided herein the party of the first part is to use the premises exclusively for the same purposes and to the same extent as the premises were used by the party of the first part prior to the acquisition of the fee simple estate by the Government.

3. Activities conducted on the Government's adjacent premises, presently known as the Plum Brook Station, may tend to disrupt, interfere with, damage or otherwise harm the party of the first part's peaceful possession and quiet enjoyment of the premises. The party of the first part agrees, as part of the consideration received from the Government, that (a) any such disruption, interference with, or damage or other harm to, the party of the first part's said rights of peaceful possession and quiet enjoyment shall not constitute a taking of property requiring the payment of compensation; and (b) the party of the first part will not seek amelioration, abatement or discontinuance of any disruption, interference with, or damage or other harm to, said rights of peaceful possession and quiet enjoyment by injunction or other equitable relief.

4. As of the date of creation of this estate for years, an inventory and condition report of all personal property and improvements on the land described in the deed of which this Indenture is a part shall be made by a representative of the party of the first part and a representative of the Government to reflect the then present condition of said property. A copy of said inventory and condition report shall be attached hereto and become a part hereof, as fully as if originally incorporated herein. Upon the expiration, surrender, extinguishment, diminution or other termination in whole or in part of this estate for years a similar inventory and condition report shall be prepared and submitted to the Government, said inventory and condition report to constitute the basis for

settlement by the party of the first part with the Government for property shown to be lost, damaged, or destroyed, any such property to be either replaced or restored to the condition required by Condition No. 27 hereof, or at the election of the Government reimbursement made therefor by the party of the first part at the then current market value thereof.

5. The party of the first part warrants that he has inspected and knows the condition of the property and it is understood that the Government makes no representation or warranty with respect thereto whatsoever, and assumes no obligation to make any alterations, repairs, or additions thereto.

6. The party of the first part shall neither transfer nor assign his estate or any property on the premises, nor sublet the premises or any part thereof or any property thereon, nor grant any interest, privilege, or license whatsoever under this estate for years without permission in writing from the Government.

7. The party of the first part agrees that no dwelling, building, or structure not on the premises on the date of creation of the estate for years shall be constructed or erected or caused to be maintained thereon and that no improvements, changes, alterations, or addition shall be made or caused to be made to any dwelling, building, or structure on the premises, (a) which does or could have the effect of increasing the number of families, persons, or livestock resident or quartered on the premises; and (b) unless plans therefor have first been submitted to and approved in writing by the Government. The Government shall have the right to refuse to grant any such approval whenever, in its sole discretion the plan is not deemed to be in the best interest of the Government, and such refusal shall not constitute a taking of property requiring the payment of compensation.

8. The party of the first part shall at all times maintain and keep all portions of the premises in good and sufficient repair, order and condition, so that the same shall be in as good a condition as it was at the time of the creation of the estate for years and all such repairs shall be made in a good and workmanlike manner; should the party of the first part fail to make any such repairs within ten (10) days after receipt of notice from the Government, the Government may cause the same to be made and charge the party of the first part for the cost thereof.

9. The party of the first part agrees to keep and maintain the premises, including all dwellings, buildings, structures, walks, drives, grass, yard, and field areas thereof, at all times in a good, clean, mowed, safe, sanitary, and wholesome condition, free from any defects, dirt, filth, garbage, rubbish, trash, waste, or undesirable accumulations. If after due notice thereof, the party of the first part fails to keep such premises in a good, clean, mowed, safe, sanitary, and wholesome condition as required herein, the Government shall have the right to enter upon the premises to perform the necessary services and charge the cost thereof to the party of the first part.

10. The party of the first part shall cut no timber, conduct no mining or drilling operations, remove no sand, gravel or kindred substances from the ground, commit no waste of any kind, or in any manner substantially change the contour or condition of the leased premises, except changes necessary to improve or preserve the nature, quality, and condition of the premises; and shall do, in proper and seasonable times of the year, and in a proper manner, all things necessary to the preservation and maintenance of the quality and condition of the premises.

11. The United States shall not be responsible for damages to property or injuries to persons which may arise from or be incident to the use and occupation of the said premises by the party of the first part or for damages to the property of such party or for injuries to the person of the party of the first part, or for damages to the property or injuries to the person of the party of the first part's officers, agents, servants, or employees, or others who may be on said premises at their invitation or the invitation of any one of them, and the party of the first part shall hold the United States harmless from any and all such claims.

12. The party of the first part shall at all times exercise due diligence in the protection of the premises against damage or destruction by fire and other causes.

13. Any property of the United States on the premises damaged or destroyed by the party of the first part incident to such party's use and occupation of the said property shall be promptly repaired or replaced by the party of the first part to the satisfaction of the Government or in lieu of such repair or replacement the party of the first part shall, if so required by the Government, pay to the United States money in an amount sufficient to compensate for the loss sustained by the United States by reason of damages to, or dstruction of, Government property.

14. The Government shall have the right to prescribe such rules, regulations, and procedures governing the safety, security, sanitation, and control of the premises as it, in its sole discretion, may deem necessary to preserve and protect the interest of the United States Government in connection with the activities being conducted at its Plum Brook Station.

15. The Government shall have the right to exclude, require removal of, or remove, any persons or animals from the premises, and to prohibit the habitation or occupancy or presence on the premises of any and all persons and animals for reasonable periods of time, not in excess of five (5) calendar days in any one instance, by giving the party of the first part due notice to that effect.

16. The Government shall have the right to enter upon the premises for the purpose of performing or conducting, or to place and maintain thereon such instruments and devices to aid and assist in performing or conducting, such inspections and tests

as the Government, in its sole discretion shall deem necessary to determine and/or detect if the activities carried on, or to be carried on, at the Plum Brook Station will have or have had any dangerous, noxious, harmful, or otherwise adverse effects on the health, safety, or comfort of any persons or animals on the premises.

17. The Government shall have the right from time to time to enter upon the premises to perform maintenance and make such changes to the Government-owned fence and adjacent property as the Government deems necessary.

18. The party of the first part shall comply with all applicable laws, ordinances, and regulations of the State, county, and municipality wherein the said premises are located.

19. The party of the first part shall pay to the proper authority, when and as the same becomes due and payable, all taxes, assessments, and similar charges, which, at any time during the term of this estate for years may be taxed, assessed, or imposed upon the Government or upon the party of the first part with respect to or upon the premises. In the event any taxes, assessments, or similar charges are imposed with the consent of the Congress upon property owned by the Government and included in this estate for years, an equitable adjustment in the price paid by the Government for the fee simple estate shall be negotiated; provided that, in the event that the parties hereto are unable to agree, within ninety (90) days from the date of imposition of such taxes, assessments, or similar charges, on an adjustment, then, in such event, the Government shall have the right to unilaterally determine the amount of, such adjustment which determination shall be binding on the party of the first part subject to appeal in accordance with Condition No. 20 of this Indenture.

20. (a) Except as otherwise provided in this Indenture, any dispute concerning a question of fact arising under this Indenture which is not disposed of by agreement shall be decided by the Government's Contracting Officer, who shall reduce his decision to writing and mail or otherwise furnish a copy thereof to the party of the first part. The decision of the said officer shall be final and conclusive unless, within thirty (30) days from the date of receipt of such copy, the party of the first part mails or otherwise furnishes to the said officer a written appeal addressed to the Administrator of the National Aeronautics and Space Administration. The decision of the Administrator or his duly authorized representative for the determination of such appeals shall be final and conclusive unless determined by a court of competent jurisdiction to have been fraudulent, or capricious, or arbitrary, or so grossly erroneous as necessarily to imply bad faith, or not supported by substantial evidence. In connection with any appeal proceeding under this Condition, the party of the first part shall be afforded an opportunity to be heard and to offer evidence in support of his appeal. Pending final decision of a dispute hereunder, the party of the first part shall proceed diligently in accordance with the said Contracting Officer's initial decision.

(b) This Condition does not preclude consideration of law questions in connection with decision provided for in paragraph (a) above: Provided, that nothing in this Condition shall be construed as making final the decision of any administrative official, representative, or board on a question of law.

21. This estate for years may be surrendered to the Government or terminated by the party of the first part at any time by giving to the Government at least ten (10) days notice in writing provided that, in case of such surrender or termination, the United States shall not be liable to pay any amount for the interest surrendered or terminated.

22. The party of the first part shall pay the cost, as determined by the Government of producing and/or supplying any utilities and other services furnished by the Government or through Government-owned facilities for the use of the party of the first part, including that party's proportionate share of the cost of operation and maintenance of the Government-owned facilities by which such utilities or services are produced or supplied. The Government shall be under no obligation to furnish utilities or services. Payment shall be made in the manner prescribed by the Government upon bills rendered monthly.

23. For such period as the party of the first part is in possession of the premises pursuant to the provisions and conditions of this Indenture the party of the first part shall procure and maintain at his expense a standard fire and extended coverage insurance policy or policies on the property to the full insurable value thereof. The party of the first part shall procure such insurance from any responsible company or companies. The policy or policies evidencing such insurance shall provide that in the event of loss thereunder the proceeds of the policy or policies, at the election of the Government, shall be payable to the party of the first part to be used solely for the repair, restoration, or replacement of the property damaged or destroyed, any balance of the proceeds not required for the repair, restoration, or replacement of the property damaged or destroyed to be paid to the Government, and that in the event the Government does not elect by notice in writing to the insurer within sixty (60) days after the damage or destruction occurs to have the proceeds paid to the party of the first part for the purposes hereinabove set forth, then such proceeds shall be paid to the Government, provided however, that the insurer, after payment of any proceeds to the party of the first part in accordance with the provisions of the policy or policies, shall have no obligation or liability with respect to the use or disposition of the proceeds by the party of the first part. Nothing herein contained shall be construed as an obligation upon the Government to repair, restore, or replace the property or any part thereof. If the Government elects to accept the proceeds and not repair, restore, or replace the property damaged or destroyed, then an equitable adjustment in the price paid by the Government for the fee simple estate shall be negotiated. In the event that the parties hereto are unable to agree, within ninety (90) days from the date of such election on an equitable adjustment then the Government shall have the right to unilaterally determine the amount of such adjustment, which determination shall be binding on the party of the first part subject to appeal in accordance with Condition No. 20 of this Indenture.

24. No Member of or Delegate to Congress or Resident Commissioner shall be admitted to any share or part of this estate for years or to any benefits to arise therefrom. Nothing, however, herein contained shall be construed to extend to any incorporated company, if the estate for years be for the general benefit of such corporation or company.

25. The party of the first part shall maintain, in a manner satisfactory to the Government, terraces and other soil and water conservation structures that may be in existence upon said premises at the beginning of or that may be constructed during the term of this estate for years, and the use of the said premises by the party of the first part shall be in accordance with good soil conservation practices.

26. Hunting and fishing shall not be permitted, except in areas designated by the Government.

27. On or before the date of expiration of this estate for years or its surrender or termination by the party of the first part, such party shall at his own expense vacate the premises, remove his property therefrom, and restore the premises to as good order and condition as that existing upon the date of commencement of the term of this estate for years less ordinary wear and tear and damage to the property covered by insurance and for which the Government shall receive or has received insurance funds in lieu of having the damaged property repaired, replaced, or restored. If, however, this estate for years is extinguished by the Government under Condition No. 32 hereof, the party of the first part shall vacate the premises, remove his property therefrom, and restore the premises to the condition aforesaid within such time as the Government may designate, except as otherwise provided in Condition No. 32 hereof. In either event, and except as otherwise provided in Condition No. 32 hereof, if the party of the first part shall fail or neglect to remove his property and so restore the premises, then, at the option of the Government, the property of the party of the first part shall either become the property of the United States without compensation therefor, or the Government may cause it to be removed and the property to be so restored at the expense of the party of the first part and no claim for damages against the United States or its officers or agents shall be created by or made on account of such removal and restoration work.

28. If the party of the first part is comprised of more than one person (natural or corporate) the obligations of such persons (natural or corporate) herein contained shall be joint and several obligations.

29. The Government's authorized agents for all purposes under this Indenture shall be duly appointed Contracting Officers. Except as otherwise specifically provided, any reference herein to "Contracting Officer" shall include his duly appointed successors and his authorized representatives.

30. All notices to be given pursuant to this Indenture shall be addressed, if to the party of the first part, to

PAUL R. ZORN
MILAN Rd.
SANDUSKY, Ohio 44870

if to the Government, to

National Aeronautics & Space Administration
Lewis Research Center
21000 Brookpark Road
Cleveland, Ohio 44135

Attention: Director

or as may from time to time otherwise be directed by the parties. Notice shall be deemed to have been duly given if and when enclosed in a properly sealed envelope, or wrapper, addressed as aforesaid, and deposited postage prepaid (or, if mailed by the Government, deposited under its franking privilege) in a post office or branch post office regularly maintained by the United States Government.

31. The party of the first part warrants that no person or selling agency has been employed or retained to solicit or secure this Indenture upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bona fide employees or bona fide established commercial or selling agencies maintained by the party of the first part for the purpose of securing business. For breach or violation of this warranty the Government shall have the right to annul this Indenture without liability or in its discretion to require the party of the first part to pay, in addition to the consideration, the full amount of such commission, percentage, brokerage, or contingent fee.

32. The Government has the right to extinguish or diminish the estate for years as to all or part of the land described in the deed of which this Indenture is a part whenever in its sole discretion this is necessary in the interests of the activity being conducted at the Plum Brook Station; provided that it promptly negotiates an equitable adjustment in the consideration paid for the acquisition of the fee simple interest in such land. If at the time the estate for years is extinguished or diminished the premises affected are being used for agricultural purposes, the party of the first part shall have right to harvest, gather, and remove from said land such crops as may have been planted or grown on said land, or, in the alternative, the Government may require the party of the first part to vacate immediately and compensate him for the value of the

crops remaining upon said land. Any equitable adjustment or right to harvest, gather, and remove crops shall be evidenced by a supplemental agreement, in writing, executed by the Government and the party of the first part. In the event that the parties hereto are unable to agree, within ninety (90) days from the date of the extinguishment or diminution of the estate for years, the Government shall have the right to unilaterally determine the amount of the equitable adjustment, which determines shall be binding on the party of the first part subject to appeal in accordance with Condition No. 20 of this Indenture.

33. The Government shall have the right to enter upon the premises at any time and for any purpose necessary to accomplish or enforce the terms and conditions of this agreement.

34. Participation in allotment and feed grain crop programs is not prohibited.

35. Before the execution of this Indenture, conditions were deleted, revised, and added in the following manner:

Condition No. 32 is modified by adding the words, "which equitable adjustment shall not be less than $15.00 per acre per year for the unexpired portion of the term of the estate." after the last word in the first sentence.

The following shall be added to this Indenture as Condition No. 36:

36. During the term of the estate for years, or, if extended, any extension thereof, the party of the first part shall have an easement for ingress and egress 20 feet in width the west and north sides of said easement being described as follows: Beginning at a point 100 feet south of the southeast corner of land formerly owned by Lloyd A. Hills et al.; thence north along the west line of the above described land to the northwest corner thereof; thence along the north line of the above described land eastwardly to U.S. Highway #250.

At the end of the term of the estate for years, or any extension thereof, or on the effective date of the surrender or termination of the estate for years by the party of the first part under Condition No. 21 hereof, or the extinguishment of the estate for years by the Government under Condition No. 32 hereof, whichever occurs first, the easement shall be terminated without further action by either party and without additional compensation therefor.

IN WITNESS WHEREOF the parties hereto have executed this Indenture this 16TH day of January 19 70.

Signed and ackowledged in the presence of:

Party of the First Part

Mary Haacke

Billy W. Cum

Paul B. Zorn

Florence G. Zorn

Party of the Second Part
United States of America

by E J Manganiello

Acting Director, Lewis Research Center
Title

To Have and to Hold *the above granted and bargained premises, with the appurtenances thereof, unto the said Grantee* , and its ~~XXXXXXX~~ *assigns forever.*

And we , Paul B. Zorn and Florence G. Zorn , *the said Grantors, do for* ourselves *and* our *heirs, executors and administrators, covenant with the said Grantee* , and its ~~XXXXXXX~~ *assigns, that at and until the ensealing of these presents,* we are *well seized of the above described premises, as a good and indefeasible estate in FEE SIMPLE, and have good right to bargain and sell the same in manner and form as above written, and that the same are* **free from all incumbrances whatsoever,** except, and subject to, easements, restrictions and reservations of record in Volume 217, page 199 of Erie County Deed Records.

and that we *will* **Warrant and Defend** *said premises, with the appurtenances thereunto belonging, to the said Grantee* , and its ~~XXXXXXX~~ *assigns, against all lawful claims and demands whatsoever,* except as noted above.

And for valuable consideration
Paul B. Zorn and Florence G. Zorn, husband and wife,
do hereby remise, release and forever quit-claim unto the said Grantee , and its ~~XXXXXXX~~ *assigns, all* their *right and expectancy of* **Dower** *in the above described premises.*

In Witness Whereof *have hereunto set* hand , *the* 16th *day of* January , *in the year of our Lord one thousand nine hundred and* seventy.

Signed and acknowledged in presence of

Mary Hracke — Paul B. Zorn
Billy A. Cum — Florence G. Zorn

State of Ohio
Erie *County,* } ss. *Before me, a* Notary Public *in and for said County and State, personally appeared the above named* Paul B. Zorn and Florence G. Zorn, husband and wife,

who acknowledged that they *did sign the foregoing instrument and that the same is* their *free act and deed.*

In Testimony Whereof, *I have hereunto set my hand and official seal, at* Sandusky, Ohio *this* 16th *day of* January , *A. D.* 19 70.

Mary Hracke
Notl.

This instrument prepared by
Salvatore A. Zingale
Attorney at Law

My commission expires 4/8/74.

Transferred Jan. 16, 1970
Carl A. Speir
Fee 70 of H.
COUNTY AUDITOR

State of Ohio
County of ERIE ss
Received for Record on the 16th day of January 19 70
at 11:23 o'clock A. M.
and Recorded January 19th, 19 70in
Deed Book 397 Page 721-73
Carl A. Speir
COUNTY RECORDER.
Recorders Fee $ 13.00 Paid

This instrument prepared by
Salvatore A. Zingale
Attorney at Law

Warranty Deed
FILED
1970 JAN 16 AM 11 23
CARL A SPEIR
RECORDER
ERIE COUN Y. OHIO

235742

MICROFILMED

GRC North Plot
Taylor Road and Ransom Road
Sandusky, OH 44870

Inquiry Number: 7772100.2s
September 23, 2024

EDR NEPASearch™ Map Report

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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EDR NEPASearch DESCRIPTION

The National Environmental Policy Act of 1969 (NEPA) requires that Federal agencies include in their decision-making processes appropriate and careful consideration of all environmental effects and actions, analyze potential environmental effects of proposed actions and their alternatives for public understanding and scrutiny, avoid or minimize adverse effects of proposed actions, and restore and enhance environmental quality as much as possible.

The EDR NEPASearch Map Report provides information which may be used, in conjunction with additional research, to determine whether a proposed site or action will have significant environmental effect.

TARGET PROPERTY ADDRESS

GRC NORTH PLOT
TAYLOR ROAD AND RANSOM ROAD
SANDUSKY, OH 44870

Inquiry #: 7772100.2s
Date: 9/23/24

TARGET PROPERTY COORDINATES

Latitude (North):	41.384266 - 41˚ 23' 3.4''
Longitude (West):	82.683823 - 82˚ 41' 1.8''
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	359207.2
UTM Y (Meters):	4582571.0

The report provides maps and data for the following items (where available). Search results are provided in the Map Findings Summary on page 2 of this report.

Section	Regulation
Natural Areas Map	
• Federal Lands Data:	
- Officially designated wilderness areas	47 CFR 1.1307(1)
- Officially designated wildlife preserves, sanctuaries and refuges	47 CFR 1.1307(2)
- Wild and scenic rivers	40 CFR 6.302(e)
- Fish and Wildlife	40 CFR 6.302
• Threatened or Endangered Species, Fish and Wildlife, Critical Habitat Data (where available)	47 CFR 1.1307(3); 40 CFR 6.302
Historic Sites Map	
• National Register of Historic Places	47 CFR 1.1307(4); 40 CFR 6.302
• State Historic Places (where available)	
• Indian Reservations	
Flood Plain Map	
• National Flood Hazard Layer Data (where available)	47 CFR 1.1307(6); 40 CFR 6.302
• FEMA Q3 Flood Data (where available)	47 CFR 1.1307(6); 40 CFR 6.302
Wetlands Map	
• National Wetlands Inventory Data (where available)	47 CFR 1.1307(7); 40 CFR 6.302
• State Wetlands Data (where available)	47 CFR 1.1307(7); 40 CFR 6.302
FCC & FAA Map	
• FCC antenna/tower sites, FAA Markings and Obstructions, Airports, Topographic gradient	47 CFR 1.1307(8)

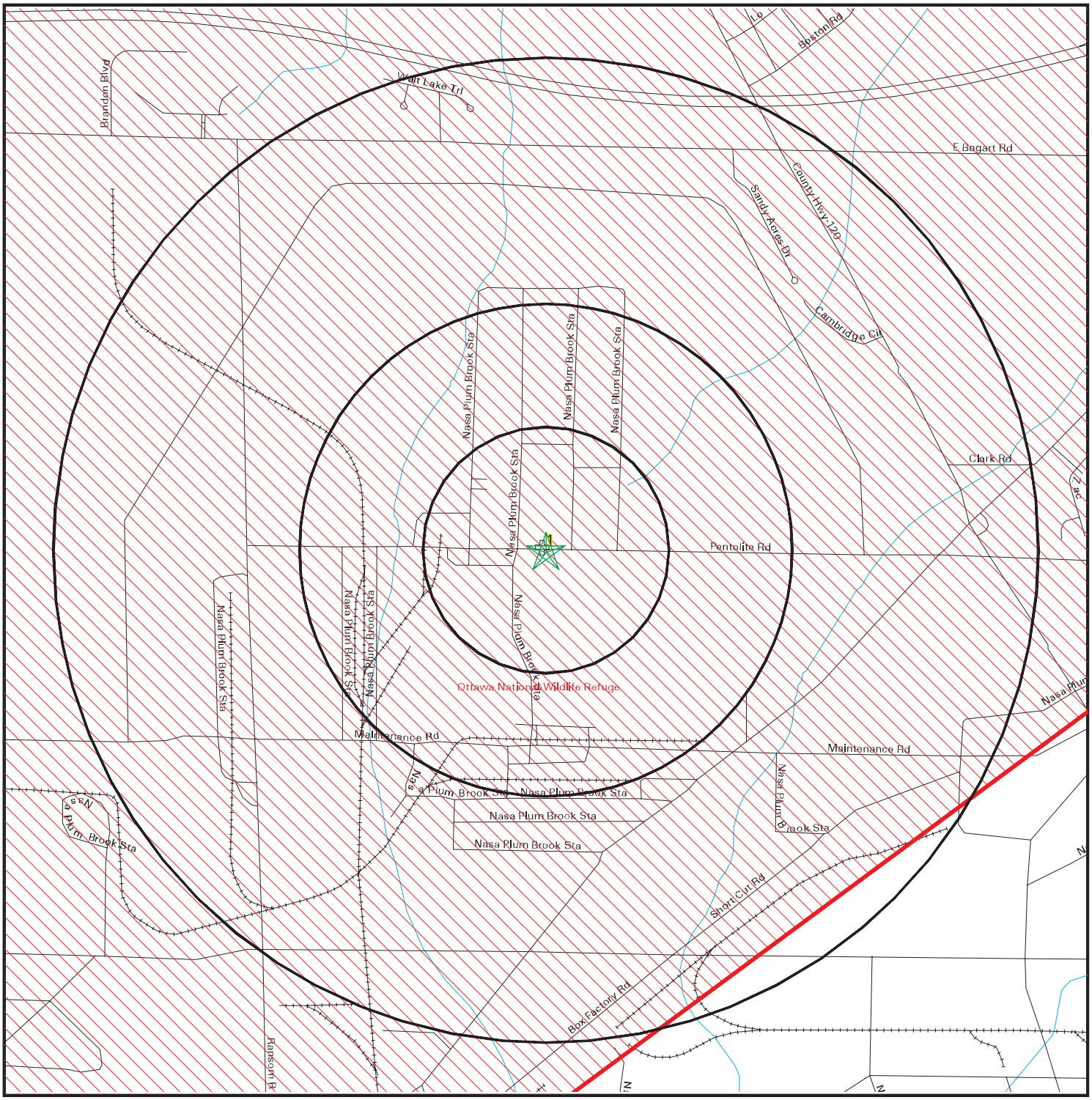
Key Contacts and Government Records Searched

MAP FINDINGS SUMMARY

The databases searched in this report are listed below. Database descriptions and other agency contact information is contained in the Key Contacts and Government Records Searched section on page 58 of this report.

Applicable Regulation from 47 CFR/FCC Checklist	Database	Search Distance (Miles)	Within Search	Within 1/8 Mile
NATURAL AREAS MAP				
1.1307a (1) Officially Designated Wilderness Area	US Federal Lands	1.00	NO	NO
	US Wilderness Preservation	1.00	NO	NO
1.1307a (2) Officially Designated Wildlife Preserve	US Federal Lands	1.00	NO	NO
	US Scenic River	1.00	NO	NO
	OH DNR Lands	1.00	NO	NO
	US ACEC	1.00	NO	NO
	US Proclamation Boundaries	1.00	YES	YES
	World Protected Area	1.00	NO	NO
	US NCED	1.00	NO	NO
	US Critical Water Habitat	1.00	NO	NO
	US Critical Land Habitat	1.00	NO	NO
1.1307a (3) Threatened or Endangered Species or Critical Habitat	US Endangered Species	County	YES	N/A
1.1307a (3) Threatened or Endangered Species or Critical Habitat	OH Endangered Species	County	YES	N/A
HISTORIC SITES MAP				
1.1307a (4) Listed or eligible for National Register	OH Historic Sites	1.00	YES	NO
1.1307a (4) Listed or eligible for National Register	Natchez Trace National Scenic	1.00	NO	NO
1.1307a (4) Listed or eligible for National Register	Potomac Heritage National Scen	1.00	NO	NO
	Indian Reservations	1.00	NO	NO
1.1307a (4) Listed or eligible for National Register	US Trails	1.00	NO	NO
1.1307a (4) Listed or eligible for National Register	National Register of Hist. Pla	1.00	NO	NO
FLOOD PLAIN MAP				
1.1307 (6) Located in a Flood Plain	Special Flood Hazard Area (1%)	1.00	YES	NO
1.1307 (6) Located in a Flood Plain	0.2% Annual Chance Flood Hazar	1.00	YES	NO
WETLANDS MAP				
1.1307 (7) Change in surface features (wetland fill)	NWI	1.00	YES	YES
1.1307 (7) Change in surface features (wetland fill)	STATE	1.00	NO	NO
	OH COASTAL ZONE	20.00	YES	NO
FCC & FAA SITES MAP				
	Cellular	1.00	NO	NO
	Antenna Structure Registration	1.00	NO	NO
	AM Antenna	1.00	NO	NO
	FM Antenna	1.00	NO	NO
	FAA DOF	1.00	YES	NO
	Airports	1.00	NO	---
	Power Lines	1.00	YES	---

Natural Areas Map



- Target Property
- Roads
- County Boundary
- Waterways
- Water
- Locations
- Federal Areas
- Federal Linear Features
- State Areas
- State Linear Features

SITE NAME: GRC North Plot	CLIENT: Terracon
ADDRESS: Pentolite Road and Ransom Road Sandusky OH 44870	CONTACT: Kelly Macwhinnie INQUIRY #: 7772100.2s
LAT/LONG: 41.384265 / -82.683822	DATE: September 23, 2024

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NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for ERIE County

Group:Birds

Common Name: Piping Plover — Scientific Name: Charadrius melodus
Status: Endangered

Common Name: Red knot — Scientific Name: Calidris canutus rufa
Status: Threatened

Group:Flowering Plants

Common Name: Lakeside daisy — Scientific Name: Hymenoxys herbacea
Status: Threatened

Group:Mammals

Common Name: Indiana bat — Scientific Name: Myotis sodalis
Status: Endangered

Common Name: Northern Long-Eared Bat — Scientific Name: Myotis septentrionalis
Status: Threatened

Group:Reptiles

Common Name: Eastern Massasauga (=rattlesnake) — Scientific Name: Sistrurus catenatus
Status: Proposed Threatened

Federal Endangered Species from the U.S. Fish and Wildlife for OH State

Group:Amphibians

Common Name: Eastern Hellbender — Scientific Name: Cryptobranchus alleganiensis alleganiensis
Status: Species of Concern

Common Name: Streamside salamander — Scientific Name: Ambystoma barbouri
Status: Under Review

Common Name: Hellbender — Scientific Name: Cryptobranchus alleganiensis
Status: Under Review

Group:Birds

Common Name: Black Rail — Scientific Name: Laterallus jamaicensis
Status: Under Review

Common Name: Migrant loggerhead shrike — Scientific Name: Lanius ludovicianus migrans
Status: Species of Concern

Common Name: Black tern — Scientific Name: Chlidonias niger
Status: Species of Concern

Common Name: Golden-winged warbler — Scientific Name: Vermivora chrysoptera
Status: Under Review

Common Name: Common tern — Scientific Name: Sterna hirundo
Status: Species of Concern

Group:Clams

Common Name: [Unnamed] elktoe — Scientific Name: Alasmidonta marginata

Federal Endangered Species from the U.S. Fish and Wildlife for OH State (Continued...)

Status: Species of Concern

Common Name: Purple lilliput
Status: Under Review
Scientific Name: Toxolasma lividus

Common Name: Salamander mussel
Status: Under Review
Scientific Name: Simpsonaias ambigua

Common Name: Longsolid
Status: Under Review
Scientific Name: Fusconaia subrotunda

Common Name: Round hickorynut
Status: Under Review
Scientific Name: Obovaria subrotunda

Group:Crustaceans

Common Name: [Unnamed] isopod
Status: Species of Concern
Scientific Name: Caecidotea filicispeluncae

Group:Fishes

Common Name: Greater redhorse
Status: Species of Concern
Scientific Name: Moxostoma valenciennesi

Common Name: Popeye shiner
Status: Under Review
Scientific Name: Notropis ariommus

Common Name: Tippecanoe darter
Status: Under Review
Scientific Name: Etheostoma tippecanoe

Common Name: Longhead darter
Status: Under Review
Scientific Name: Percina macrocephala

Common Name: Lake sturgeon
Status: Species of Concern
Scientific Name: Acipenser fulvescens

Common Name: Eastern sand darter
Status: Species of Concern
Scientific Name: Ammocrypta pellucida

Group:Flowering Plants

Common Name: Tennessee pondweed
Status: Under Review
Scientific Name: Potamogeton tennesseensis

Common Name: Auriculate false-foxglove
Status: Species of Concern
Scientific Name: Agalinis auriculata

Common Name: [Unnamed] sedge
Status: Species of Concern
Scientific Name: Carex formosa

Common Name: [Unnamed] sumac
Status: Species of Concern
Scientific Name: Rhus trilobata arenaria

Common Name: [Unnamed] thistle
Status: Species of Concern
Scientific Name: Cirsium hillii

Federal Endangered Species from the U.S. Fish and Wildlife for OH State (Continued...)

Common Name: [Unnamed] milk-vetch
Status: Species of Concern
Scientific Name: Astragalus neglectus

Common Name: No common name
Status: Species of Concern
Scientific Name: Eleocharis wolfii

Common Name: Ofer Hollow reedgrass
Status: Species of Concern
Scientific Name: Calamagrostis porteri insperata

Common Name: Purple false-foxglove
Status: Species of Concern
Scientific Name: Tomanthera skinneriana

Group:Insects

Common Name: Rusty patched bumble bee
Status: Under Review
Scientific Name: Bombus affinis

Common Name: Cobblestone tiger beetle
Status: Under Review
Scientific Name: Cicindela marginipennis

Common Name: Laricis tree cricket
Status: Species of Concern
Scientific Name: Oecanthus laricis

Common Name: Kramer's cave beetle
Status: Species of Concern
Scientific Name: Pseudanophthalmus krameri

Common Name: Grizzled skipper
Status: Species of Concern
Scientific Name: Pyrgus centaureae

Common Name: Sixbanded long-horned beetle
Status: Species of Concern
Scientific Name: Dryobius sexnotatus

Common Name: Barrens Dagger Moth
Status: Species of Concern
Scientific Name: Acronicta albarufa

Common Name: Monarch buttefly
Status: Under Review
Scientific Name: Danaus plexippus plexippus

Common Name: Wabash belted skimmer
Status: Species of Concern
Scientific Name: Macromia taeniolata

Common Name: Hebard's noctuid moth
Status: Species of Concern
Scientific Name: Erythroecia hebardi

Common Name: Regal fritillary
Status: Under Review
Scientific Name: Speyeria idalia

Common Name: Precious underwing
Status: Species of Concern
Scientific Name: Catocala pretiosa pretiosa

Common Name: Elusive clubtail
Status: Species of Concern
Scientific Name: Stylurus notatus

Common Name: [Unnamed] looper moth
Status: Species of Concern
Scientific Name: Euchlaena milnei

Federal Endangered Species from the U.S. Fish and Wildlife for OH State (Continued...)

Common Name: Ohio cave beetle
Status: Species of Concern
Scientific Name: Pseudanophthalmus ohioensis

Common Name: Black lordithon rove beetle
Status: Species of Concern
Scientific Name: Lordithon niger

Common Name: Diana fritillary
Status: Species of Concern
Scientific Name: Speyeria diana

Group:Reptiles

Common Name: Wood turtle
Status: Under Review
Scientific Name: Glyptemys insculpta

Common Name: Kirtland's snake
Status: Under Review
Scientific Name: Clonophis kirtlandii

Common Name: Blanding's turtle
Status: Under Review
Scientific Name: Emydoidea blandingii

Group:Snails

Common Name: Varicose rocksnail
Status: Species of Concern
Scientific Name: Lithasia verrucosa

OH Endangered species for ERIE County

Group: ANIMALS

Common Name: Lake Sturgeon
State Status: Endangered
Scientific Name: Acipenser fulvescens
Federal Status: Federal Species of Concern

Common Name: Deertoe
State Status: Species of Concern
Scientific Name: Truncilla truncata
Federal Status: Not Federally Listed

Common Name: Upland Sandpiper
State Status: Endangered
Scientific Name: Bartramia longicauda
Federal Status: Not Federally Listed

Common Name: Longnose Sucker
State Status: Endangered
Scientific Name: Catostomus catostomus
Federal Status: Not Federally Listed

Common Name: A Tiger Beetle
State Status: Threatened
Scientific Name: Cicindela hirticollis hirticollis
Federal Status: Not Federally Listed

Common Name: Sedge Wren
State Status: Species of Concern
Scientific Name: Cistothorus platensis
Federal Status: Not Federally Listed

Common Name: Spotted Turtle
State Status: Threatened
Scientific Name: Clemmys guttata
Federal Status: Not Federally Listed

Common Name: Kirtland's Snake
State Status: Threatened
Scientific Name: Clonophis kirtlandii
Federal Status: Federal Species of Concern

Common Name: Lake Whitefish
State Status: Species of Concern
Scientific Name: Coregonus clupeaformis
Federal Status: Not Federally Listed

Common Name: Purple Wartyback
Scientific Name: Cyclonaias tuberculata

OH Endangered species for ERIE County (Continued...)

State Status: Species of Concern
Federal Status: Not Federally Listed

Common Name: Blanding's Turtle
Scientific Name: Emydoidea blandingii
State Status: Threatened
Federal Status: Federal Species of Concern

Common Name: Marsh Bluet
Scientific Name: Enallagma ebrium
State Status: Threatened
Federal Status: Not Federally Listed

Common Name: Muskellunge
Scientific Name: Esox masquinongy
State Status: Species of Concern
Federal Status: Not Federally Listed

Common Name: Plains Clubtail
Scientific Name: Gomphus externus
State Status: Endangered
Federal Status: Not Federally Listed

Common Name: Bald Eagle
Scientific Name: Haliaeetus leucocephalus
State Status: Federal Only
Federal Status: Federal Species of Concern

Common Name: Least Bittern
Scientific Name: Ixobrychus exilis
State Status: Threatened
Federal Status: Not Federally Listed

Common Name: Eastern Pondmussel
Scientific Name: Ligumia nasuta
State Status: Endangered
Federal Status: Not Federally Listed

Common Name: Black Sandshell
Scientific Name: Ligumia recta
State Status: Threatened
Federal Status: Not Federally Listed

Common Name: Lake Erie Watersnake
Scientific Name: Nerodia sipedon insularum
State Status: Threatened
Federal Status: Federal Species of Concern

Common Name: Threehorn Wartyback
Scientific Name: Obliquaria reflexa
State Status: Threatened
Federal Status: Not Federally Listed

Common Name: Smooth Greensnake
Scientific Name: Opheodrys vernalis
State Status: Species of Concern
Federal Status: Not Federally Listed

Common Name: Eastern Foxsnake
Scientific Name: Pantherophis gloydi
State Status: Species of Concern
Federal Status: Not Federally Listed

Common Name: Channel Darter
Scientific Name: Percina copelandi
State Status: Threatened
Federal Status: Not Federally Listed

Common Name: Sora Rail
Scientific Name: Porzana carolina
State Status: Species of Concern
Federal Status: Not Federally Listed

Common Name: Common Tern
Scientific Name: Sterna hirundo
State Status: Endangered
Federal Status: Federal Species of Concern

Common Name: Fawnsfoot
Scientific Name: Truncilla donaciformis
State Status: Threatened
Federal Status: Not Federally Listed

Common Name: Eastern Cricket Frog
Scientific Name: Acris crepitans
State Status: Species of Concern
Federal Status: Not Federally Listed

Group: PLANTS

Common Name: American Sweet-flag
Scientific Name: Acorus americanus

OH Endangered species for ERIE County (Continued...)

State Status: Potentially Threatened
Federal Status: Not Federally Listed

Common Name: American Beach Grass
Scientific Name: Ammophila breviligulata
State Status: Threatened
Federal Status: Not Federally Listed

Common Name: Prairie Thimbleweed
Scientific Name: Anemone cylindrica
State Status: Threatened
Federal Status: Not Federally Listed

Common Name: Southern Hairy Rock Cress
Scientific Name: Arabis pycnocarpa var. adpressipilis
State Status: Potentially Threatened
Federal Status: Not Federally Listed

Common Name: Western Hairy Rock Cress
Scientific Name: Arabis pycnocarpa var. pycnocarpa
State Status: Extirpated
Federal Status: Not Federally Listed

Common Name: Purple Triple-awned Grass
Scientific Name: Aristida purpurascens
State Status: Potentially Threatened
Federal Status: Not Federally Listed

Common Name: Beach Wormwood
Scientific Name: Artemisia campestris
State Status: Threatened
Federal Status: Not Federally Listed

Common Name: Prairie False Indigo
Scientific Name: Baptisia lactea
State Status: Potentially Threatened
Federal Status: Not Federally Listed

Common Name: Twisted Teeth Moss
Scientific Name: Barbula indica
State Status: Endangered
Federal Status: Not Federally Listed

Common Name: Limestone Savory
Scientific Name: Calamintha arkansana
State Status: Threatened
Federal Status: Not Federally Listed

Common Name: Grass-pink
Scientific Name: Calopogon tuberosus
State Status: Threatened
Federal Status: Not Federally Listed

Common Name: Broad-winged Sedge
Scientific Name: Carex alata
State Status: Potentially Threatened
Federal Status: Not Federally Listed

Common Name: Leafy Tussock Sedge
Scientific Name: Carex aquatilis
State Status: Threatened
Federal Status: Not Federally Listed

Common Name: Wheat Sedge
Scientific Name: Carex atherodes
State Status: Potentially Threatened
Federal Status: Not Federally Listed

Common Name: Golden-fruited Sedge
Scientific Name: Carex aurea
State Status: Potentially Threatened
Federal Status: Not Federally Listed

Common Name: Bebb’s Sedge
Scientific Name: Carex bebbii
State Status: Potentially Threatened
Federal Status: Not Federally Listed

Common Name: Bicknell’s Sedge
Scientific Name: Carex bicknellii
State Status: Threatened
Federal Status: Not Federally Listed

Common Name: Tufted Fescue Sedge
Scientific Name: Carex brevior
State Status: Potentially Threatened
Federal Status: Not Federally Listed

Common Name: Field Sedge
Scientific Name: Carex conoidea
State Status: Threatened
Federal Status: Not Federally Listed

OH Endangered species for ERIE County (Continued...)

Common Name: Little Yellow Sedge
State Status: Potentially Threatened
Scientific Name: Carex cryptolepis
Federal Status: Not Federally Listed

Common Name: Yellow Sedge
State Status: Potentially Threatened
Scientific Name: Carex flava
Federal Status: Not Federally Listed

Common Name: Garber's Sedge
State Status: Endangered
Scientific Name: Carex garberi
Federal Status: Not Federally Listed

Common Name: Slender Sedge
State Status: Potentially Threatened
Scientific Name: Carex lasiocarpa
Federal Status: Not Federally Listed

Common Name: Mud Sedge
State Status: Endangered
Scientific Name: Carex limosa
Federal Status: Not Federally Listed

Common Name: Midland Sedge
State Status: Threatened
Scientific Name: Carex mesochorea
Federal Status: Not Federally Listed

Common Name: Necklace Sedge
State Status: Threatened
Scientific Name: Carex projecta
Federal Status: Not Federally Listed

Common Name: Straw Sedge
State Status: Potentially Threatened
Scientific Name: Carex straminea
Federal Status: Not Federally Listed

Common Name: Little Green Sedge
State Status: Threatened
Scientific Name: Carex viridula
Federal Status: Not Federally Listed

Common Name: Long-bracted Orchid
State Status: Endangered
Scientific Name: Coeloglossum viride
Federal Status: Not Federally Listed

Common Name: Bushy Horseweed
State Status: Potentially Threatened
Scientific Name: Conyza ramosissima
Federal Status: Not Federally Listed

Common Name: Spotted Coral-root
State Status: Potentially Threatened
Scientific Name: Corallorhiza maculata
Federal Status: Not Federally Listed

Common Name: Round-leaved Dogwood
State Status: Potentially Threatened
Scientific Name: Cornus rugosa
Federal Status: Not Federally Listed

Common Name: Low Umbrella-sedge
State Status: Potentially Threatened
Scientific Name: Cyperus diandrus
Federal Status: Not Federally Listed

Common Name: Schweinitz' Umbrella-sedge
State Status: Threatened
Scientific Name: Cyperus schweinitzii
Federal Status: Not Federally Listed

Common Name: White Lady's-slipper
State Status: Endangered
Scientific Name: Cypripedium candidum
Federal Status: Not Federally Listed

Common Name: Tansy Mustard
State Status: Potentially Threatened
Scientific Name: Descurainia pinnata
Federal Status: Not Federally Listed

Common Name: Northern Panic Grass
State Status: Potentially Threatened
Scientific Name: Dichanthelium boreale
Federal Status: Not Federally Listed

Common Name: Lindheimer's Panic Grass
State Status: Threatened
Scientific Name: Dichanthelium lindheimeri
Federal Status: Not Federally Listed

OH Endangered species for ERIE County (Continued...)

Common Name: Southern Hairy Panic Grass
State Status: Threatened
Scientific Name: Dichanthelium meridionale
Federal Status: Not Federally Listed

Common Name: Carolina Whitlow-grass
State Status: Threatened
Scientific Name: Draba reptans
Federal Status: Not Federally Listed

Common Name: Flat-stemmed Spike-rush
State Status: Potentially Threatened
Scientific Name: Eleocharis compressa
Federal Status: Not Federally Listed

Common Name: Green Spike-rush
State Status: Threatened
Scientific Name: Eleocharis flavescens
Federal Status: Not Federally Listed

Common Name: Caribbean Spike-rush
State Status: Endangered
Scientific Name: Eleocharis geniculata
Federal Status: Not Federally Listed

Common Name: Ovate Spike-rush
State Status: Endangered
Scientific Name: Eleocharis ovata
Federal Status: Not Federally Listed

Common Name: Slender Spike-rush
State Status: Threatened
Scientific Name: Eleocharis tenuis
Federal Status: Not Federally Listed

Common Name: Seaside Spurge
State Status: Potentially Threatened
Scientific Name: Euphorbia polygonifolia
Federal Status: Not Federally Listed

Common Name: Great Lakes Goldenrod
State Status: Threatened
Scientific Name: Euthamia remota
Federal Status: Not Federally Listed

Common Name: Fringed Gentian
State Status: Potentially Threatened
Scientific Name: Gentianopsis crinita
Federal Status: Not Federally Listed

Common Name: Small Fringed Gentian
State Status: Potentially Threatened
Scientific Name: Gentianopsis procera
Federal Status: Not Federally Listed

Common Name: Round-fruited Hedge-hyssop
State Status: Threatened
Scientific Name: Gratiola virginiana
Federal Status: Not Federally Listed

Common Name: Common Oak Fern
State Status: Endangered
Scientific Name: Gymnocarpium dryopteris
Federal Status: Not Federally Listed

Common Name: Rough Pennyroyal
State Status: Potentially Threatened
Scientific Name: Hedeoma hispida
Federal Status: Not Federally Listed

Common Name: Plains Frostweed
State Status: Potentially Threatened
Scientific Name: Helianthemum bicknellii
Federal Status: Not Federally Listed

Common Name: Ashy Sunflower
State Status: Threatened
Scientific Name: Helianthus mollis
Federal Status: Not Federally Listed

Common Name: Canada St. John’s-wort
State Status: Endangered
Scientific Name: Hypericum canadense
Federal Status: Not Federally Listed

Common Name: Least St. John’s-wort
State Status: Endangered
Scientific Name: Hypericum gymnanthum
Federal Status: Not Federally Listed

Common Name: Kalm’s St. John’s-wort
State Status: Threatened
Scientific Name: Hypericum kalmianum
Federal Status: Not Federally Listed

OH Endangered species for ERIE County (Continued...)

Common Name: Leafy Blue Flag
State Status: Threatened
Scientific Name: Iris brevicaulis
Federal Status: Not Federally Listed

Common Name: Alpine Rush
State Status: Potentially Threatened
Scientific Name: Juncus alpinoarticulatus
Federal Status: Not Federally Listed

Common Name: Baltic Rush
State Status: Potentially Threatened
Scientific Name: Juncus balticus
Federal Status: Not Federally Listed

Common Name: Diffuse Rush
State Status: Threatened
Scientific Name: Juncus diffusissimus
Federal Status: Not Federally Listed

Common Name: Greene's Rush
State Status: Threatened
Scientific Name: Juncus greenei
Federal Status: Not Federally Listed

Common Name: Flat-leaved Rush
State Status: Endangered
Scientific Name: Juncus platyphyllus
Federal Status: Not Federally Listed

Common Name: Dwarf Bulrush
State Status: Threatened
Scientific Name: Lipocarpha micrantha
Federal Status: Not Federally Listed

Common Name: Rock Sandwort
State Status: Potentially Threatened
Scientific Name: Minuartia michauxii
Federal Status: Not Federally Listed

Common Name: American Water-milfoil
State Status: Endangered
Scientific Name: Myriophyllum sibiricum
Federal Status: Not Federally Listed

Common Name: Oakes' Evening-primrose
State Status: Potentially Threatened
Scientific Name: Oenothera oakesiana
Federal Status: Not Federally Listed

Common Name: Common Prickly Pear
State Status: Potentially Threatened
Scientific Name: Opuntia humifusa
Federal Status: Not Federally Listed

Common Name: Balsam Squaw-weed
State Status: Threatened
Scientific Name: Packera paupercula
Federal Status: Not Federally Listed

Common Name: Philadelphia Panic Grass
State Status: Endangered
Scientific Name: Panicum philadelphicum
Federal Status: Not Federally Listed

Common Name: Tuckerman's Panic Grass
State Status: Endangered
Scientific Name: Panicum tuckermanii
Federal Status: Not Federally Listed

Common Name: American Reed Grass
State Status: Potentially Threatened
Scientific Name: Phragmites australis ssp. americanus
Federal Status: Not Federally Listed

Common Name: Floating Pondweed
State Status: Potentially Threatened
Scientific Name: Potamogeton natans
Federal Status: Not Federally Listed

Common Name: Richardson's Pondweed
State Status: Threatened
Scientific Name: Potamogeton richardsonii
Federal Status: Not Federally Listed

Common Name: Bushy Cinquefoil
State Status: Threatened
Scientific Name: Potentilla paradoxa
Federal Status: Not Federally Listed

Common Name: Rough Rattlesnake-root
State Status: Endangered
Scientific Name: Prenanthes aspera
Federal Status: Not Federally Listed

OH Endangered species for ERIE County (Continued...)

Common Name: Prairie Rattlesnake-root
State Status: Potentially Threatened
Scientific Name: Prenanthes racemosa
Federal Status: Not Federally Listed

Common Name: Early Buttercup
State Status: Threatened
Scientific Name: Ranunculus fascicularis
Federal Status: Not Federally Listed

Common Name: Virginia Meadow-beauty
State Status: Potentially Threatened
Scientific Name: Rhexia virginica
Federal Status: Not Federally Listed

Common Name: Smooth Rose
State Status: Potentially Threatened
Scientific Name: Rosa blanda
Federal Status: Not Federally Listed

Common Name: Wapato
State Status: Threatened
Scientific Name: Sagittaria cuneata
Federal Status: Not Federally Listed

Common Name: Deer's-tongue Arrowhead
State Status: Potentially Threatened
Scientific Name: Sagittaria rigida
Federal Status: Not Federally Listed

Common Name: Hoary Willow
State Status: Potentially Threatened
Scientific Name: Salix candida
Federal Status: Not Federally Listed

Common Name: Blue-leaved Willow
State Status: Potentially Threatened
Scientific Name: Salix myricoides
Federal Status: Not Federally Listed

Common Name: Smith's Bulrush
State Status: Threatened
Scientific Name: Schoenoplectus smithii
Federal Status: Not Federally Listed

Common Name: Tall Nut-rush
State Status: Potentially Threatened
Scientific Name: Scleria triglomerata
Federal Status: Not Federally Listed

Common Name: Canada Buffalo-berry
State Status: Potentially Threatened
Scientific Name: Shepherdia canadensis
Federal Status: Not Federally Listed

Common Name: Northern Blue-eyed-grass
State Status: Threatened
Scientific Name: Sisyrinchium montanum
Federal Status: Not Federally Listed

Common Name: Narrow-leaved Blue-eyed-grass
State Status: Threatened
Scientific Name: Sisyrinchium mucronatum
Federal Status: Not Federally Listed

Common Name: Showy Goldenrod
State Status: Threatened
Scientific Name: Solidago speciosa
Federal Status: Not Federally Listed

Common Name: Leafy Goldenrod
State Status: Threatened
Scientific Name: Solidago squarrosa
Federal Status: Not Federally Listed

Common Name: Shining Ladies'-tresses
State Status: Potentially Threatened
Scientific Name: Spiranthes lucida
Federal Status: Not Federally Listed

Common Name: Great Plains Ladies'-tresses
State Status: Potentially Threatened
Scientific Name: Spiranthes magnicamporum
Federal Status: Not Federally Listed

Common Name: Bushy Aster
State Status: Threatened
Scientific Name: Symphyotrichum dumosum
Federal Status: Not Federally Listed

Common Name: Lakeside Daisy
State Status: Endangered
Scientific Name: Tetraneuris herbacea
Federal Status: Federally Threatened

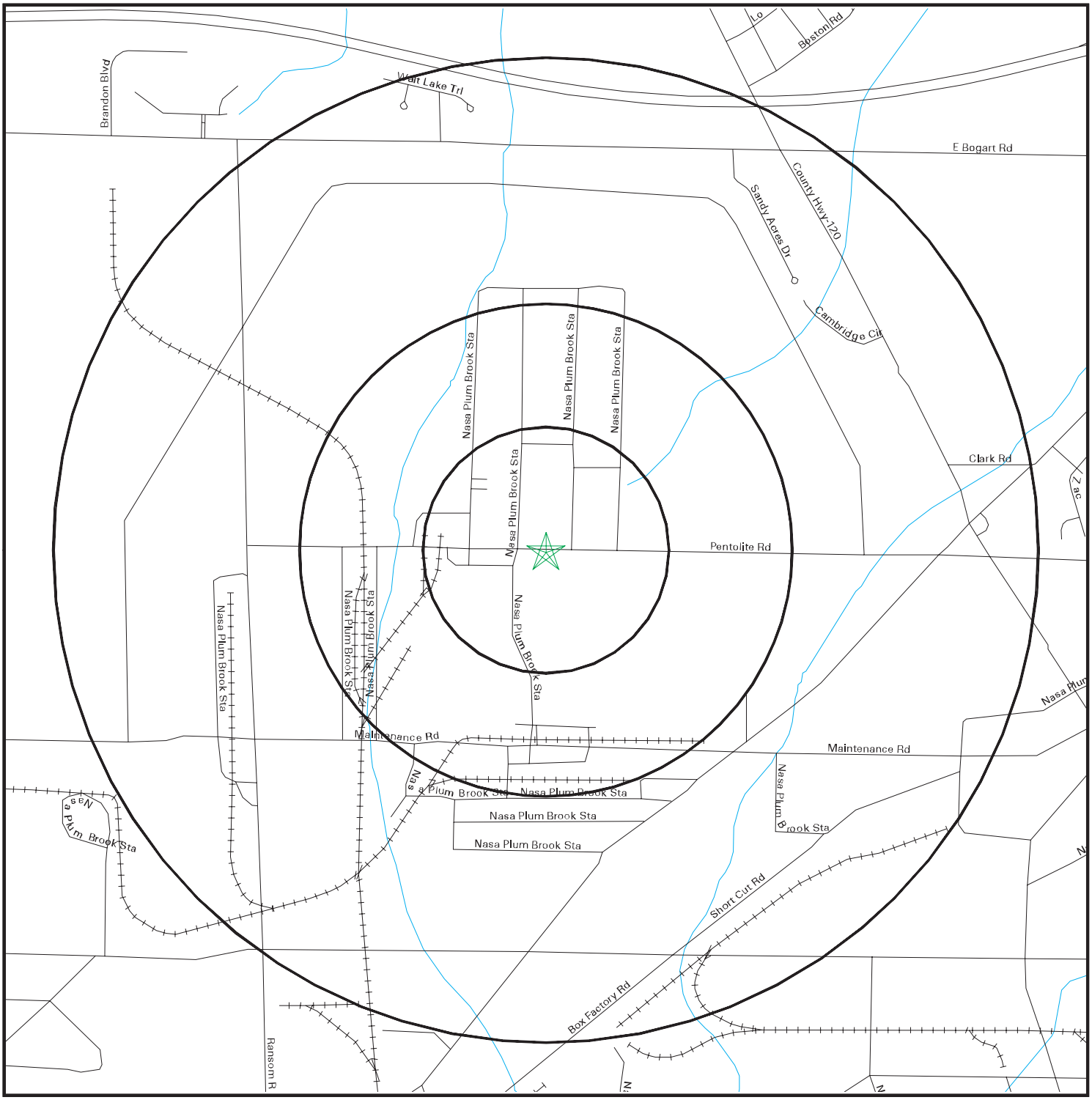
OH Endangered species for ERIE County (Continued...)

Common Name: Marsh Arrow-grass State Status: Potentially Threatened	Scientific Name: Triglochin palustris Federal Status: Not Federally Listed
Common Name: Rock Elm State Status: Potentially Threatened	Scientific Name: Ulmus thomasii Federal Status: Not Federally Listed
Common Name: Prairie Ironweed State Status: Endangered	Scientific Name: Vernonia fasciculata Federal Status: Not Federally Listed
Common Name: Lance-leaved Violet State Status: Potentially Threatened	Scientific Name: Viola lanceolata Federal Status: Not Federally Listed
Common Name: Northern Bog Violet State Status: Threatened	Scientific Name: Viola nephrophylla Federal Status: Not Federally Listed
Common Name: Twisted Yellow-eyed-grass State Status: Threatened	Scientific Name: Xyris torta Federal Status: Not Federally Listed

Map ID Direction Distance Distance (ft.)	EDR ID Database
1 North 0-1/8 mi 0	USPROC000038996 US Proclamation Boundaries

Overall Protected Area Name:	Ottawa National Wildlife Refuge
Local Name:	Ottawa National Wildlife Refuge
Category:	Approved, Proclamation or Extent Boundary
Land Owner Description:	Designation
Holding Agency:	Designation
Local Owner:	Unknown
Land Manager Description:	Federal
Managing Agency:	U.S. Fish & Wildlife Service
Local Manager:	1
Designation Type:	Approved or Proclamation Boundary
Designation:	NWR
Level of Access:	Closed
GAP Status:	4 - no known mandate for biodiversity protection
Status Assigned By:	GAP - Default
Year Assigned:	2017
IUCN Category:	V: Protected landscape / seascape
Year Assigned:	2017

Historic Sites Map



- Target Property
- Streets
- County Boundary
- Waterways
- Water
- Historic Sites
- Federal Historic Areas
- State Historic Areas
- US Indian Reservations
- Scenic Trail

SITE NAME: GRC North Plot	CLIENT: Terracon
ADDRESS: Pentolite Road and Ransom Road Sandusky OH 44870	CONTACT: Kelly Macwhinnie INQUIRY #: 7772100.2s
LAT/LONG: 41.384265 / -82.683822	DATE: September 23, 2024

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HISTORIC SITES MAP FINDINGS

Map ID Direction Distance Distance (ft.)	EDR ID Database

No mapped sites were found in EDR's search of available government records within the search radius around the target property.

UNMAPPABLE HISTORIC SITES

Due to poor or inadequate address information, the following sites were not mapped:

Status
EDR ID
Database

Adams Street Double House
106-108 E Adams St
Sandusky, OH

Unmappable
OH2016000001016
OH Historic Sites

Other Name:	Grabski, J Francine, House
Multiple Property Name:	Not Reported
NR Reference #:	75001384
NR Listing Date:	10/10/1975
Property Type:	BUILDING
Applicable Criteria:	Architecture/Engineering
Significant Person:	Not Reported
Significant Period(s):	1825-1849
Significant Area(s):	Architecture
Level of Significance:	LOCAL
Other Designation:	Not Reported
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	2
# of Contrib Sites:	Not Reported
# of Contrib Structs:	Not Reported
# of Contrib Objects:	Not Reported
Historical Uses:	DOMESTIC: Single Dwelling
Current Uses:	VACANT/NOT IN USE
Architectural Style:	Federal,Greek Revival
Description-Other Arch Style:	Not Reported
Architects:	Not Reported
Demolished:	False

Barney, Freeland T., House
215-213 Fulton St
Sandusky, OH

Unmappable
OH2016000001019
OH Historic Sites

Other Name:	Not Reported
Multiple Property Name:	Sandusky Multiple Resource Area
NR Reference #:	82001375
NR Listing Date:	10/20/1982
Property Type:	BUILDING
Applicable Criteria:	Architecture/Engineering
Significant Person:	Not Reported
Significant Period(s):	1850-1874
Significant Area(s):	Architecture
Level of Significance:	LOCAL
Other Designation:	Not Reported
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	1
# of Contrib Sites:	Not Reported
# of Contrib Structs:	Not Reported
# of Contrib Objects:	Not Reported
Historical Uses:	DOMESTIC: Single Dwelling
Current Uses:	DOMESTIC: Single Dwelling

UNMAPPABLE HISTORIC SITES

Due to poor or inadequate address information, the following sites were not mapped:

Status
EDR ID
Database

Architectural Style:	No Style Listed
Description-Other Arch Style:	Not Reported
Architects:	Not Reported
Demolished:	False

Bavarian Brewery
1816-1820 W Jefferson St
Sandusky, OH

Unmappable
OH2016000001021
OH Historic Sites

Other Name:	Not Reported
Multiple Property Name:	Sandusky Multiple Resource Area
NR Reference #:	82001377
NR Listing Date:	10/20/1982
Property Type:	BUILDING
Applicable Criteria:	Event
Significant Person:	Not Reported
Significant Period(s):	1850-1874
Significant Area(s):	Industry
Level of Significance:	LOCAL
Other Designation:	Not Reported
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	1
# of Contrib Sites:	Not Reported
# of Contrib Structs:	Not Reported
# of Contrib Objects:	Not Reported
Historical Uses:	INDUSTRY/PROCESSING/EXTRACTION: Manufacturing Facility
Current Uses:	VACANT/NOT IN USE
Architectural Style:	No Style Listed
Description-Other Arch Style:	Not Reported
Architects:	Not Reported
Demolished:	False

Boeckling Building
103-105 W Shoreline Dr
Sandusky, OH

Unmappable
OH2016000001025
OH Historic Sites

Other Name:	Not Reported
Multiple Property Name:	Sandusky Multiple Resource Area
NR Reference #:	82001380
NR Listing Date:	10/20/1982
Property Type:	BUILDING
Applicable Criteria:	Person,Architecture/Engineering
Significant Person:	Boeckling, G.A.
Significant Period(s):	1925-1949
Significant Area(s):	Architecture,Social History

UNMAPPABLE HISTORIC SITES

Due to poor or inadequate address information, the following sites were not mapped:

Status
EDR ID
Database

Level of Significance:	LOCAL
Other Designation:	Not Reported
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	1
# of Contrib Sites:	Not Reported
# of Contrib Structs:	Not Reported
# of Contrib Objects:	Not Reported
Historical Uses:	Not Reported
Current Uses:	COMMERCE/TRADE
Architectural Style:	No Style Listed
Description-Other Arch Style:	Not Reported
Architects:	Not Reported
Demolished:	False

BOECKLING, G.A., (side-paddlewheel steamboat) (DELISTED)
Jackson Street Dock
Sandusky, OH

Unmappable
OH2016000001027
OH Historic Sites

Other Name:	The Boeckling
Multiple Property Name:	Not Reported
NR Reference #:	83001959
NR Listing Date:	03/03/1983
Property Type:	STRUCTURE
Applicable Criteria:	Event
Significant Person:	Not Reported
Significant Period(s):	1950-1974,1925-1949,1900-1924
Significant Area(s):	Transportation
Level of Significance:	STATE
Other Designation:	Not Reported
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	0
# of Contrib Sites:	0
# of Contrib Structs:	1
# of Contrib Objects:	0
Historical Uses:	COMMERCE/TRADE: Business,COMMERCE/TRADE: Warehouse,TRANSPORTATION: Water-Related
Current Uses:	TRANSPORTATION: Water-Related
Architectural Style:	No Style Listed
Description-Other Arch Style:	Not Reported
Architects:	Great Lakes Engineering Works
Demolished:	True

Boy with the Boot Fountain
West Washington St Park
Sandusky, OH

Unmappable
OH2016000001028
OH Historic Sites

UNMAPPABLE HISTORIC SITES

Due to poor or inadequate address information, the following sites were not mapped:

Status
EDR ID
Database

Other Name:	Not Reported
Multiple Property Name:	Sandusky Multiple Resource Area
NR Reference #:	82001381
NR Listing Date:	10/20/1982
Property Type:	OBJECT
Applicable Criteria:	Architecture/Engineering
Significant Person:	Not Reported
Significant Period(s):	1875-1899
Significant Area(s):	Architecture
Level of Significance:	LOCAL
Other Designation:	Not Reported
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	Not Reported
# of Contrib Sites:	Not Reported
# of Contrib Structs:	Not Reported
# of Contrib Objects:	Not Reported
Historical Uses:	RECREATION AND CULTURE: Work of Art (Sculpture, Carving, Rock Art)
Current Uses:	RECREATION AND CULTURE: Work of Art (Sculpture, Carving, Rock Art)
Architectural Style:	No Style Listed
Description-Other Arch Style:	Not Reported
Architects:	Not Reported
Demolished:	False

Cable Park Historic District
1103-1234 Wayne St
Sandusky, OH

Unmappable
OH2016000001029
OH Historic Sites

Other Name:	Not Reported
Multiple Property Name:	Not Reported
NR Reference #:	87002506
NR Listing Date:	01/21/1988
Property Type:	DISTRICT
Applicable Criteria:	Event,Architecture/Engineering
Significant Person:	Not Reported
Significant Period(s):	1925-1949,1900-1924
Significant Area(s):	Architecture,Community Planning and Development
Level of Significance:	LOCAL
Other Designation:	DATE RECEIVED/PENDING NOMINATION
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	43
# of Contrib Sites:	Not Reported
# of Contrib Structs:	Not Reported
# of Contrib Objects:	Not Reported
Historical Uses:	DOMESTIC: Single Dwelling,DOMESTIC: Secondary Structure
Current Uses:	DOMESTIC: Single Dwelling,DOMESTIC: Secondary Structure
Architectural Style:	Colonial Revival,Tudor Revival,Other
Description-Other Arch Style:	American Foursquare
Architects:	Millott & Parker; Walker & Weeks,O'Donnell & Wolfe; C Edward Wolfe
Demolished:	False

UNMAPPABLE HISTORIC SITES

Due to poor or inadequate address information, the following sites were not mapped:

	Status EDR ID Database
Cedar Point Light **Cedar Point** **Sandusky, OH**	**Unmappable** **OH2016000001034** **OH Historic Sites**

Other Name:	Not Reported
Multiple Property Name:	U.S. Coast Guard Lighthouses and Light Stations on the Great Lakes Thematic Resource
NR Reference #:	84003667
NR Listing Date:	07/19/1984
Property Type:	BUILDING
Applicable Criteria:	Event,Architecture/Engineering
Significant Person:	Not Reported
Significant Period(s):	1900-1924,1875-1899,1850-1874
Significant Area(s):	Engineering,Transportation
Level of Significance:	STATE
Other Designation:	Not Reported
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	1
# of Contrib Sites:	Not Reported
# of Contrib Structs:	Not Reported
# of Contrib Objects:	Not Reported
Historical Uses:	DEFENSE: Coast Guard Facility,TRANSPORTATION: Water-Related
Current Uses:	DEFENSE: Coast Guard Facility
Architectural Style:	No Style Listed
Description-Other Arch Style:	Not Reported
Architects:	Not Reported
Demolished:	False

Coliseum, The **Midway at Cedar Point** **Sandusky, OH**	**Unmappable** **OH2016000001035** **OH Historic Sites**

Other Name:	Not Reported
Multiple Property Name:	Sandusky Multiple Resource Area
NR Reference #:	82001385
NR Listing Date:	10/20/1982
Property Type:	BUILDING
Applicable Criteria:	Event,Architecture/Engineering
Significant Person:	Not Reported
Significant Period(s):	1900-1924
Significant Area(s):	Architecture,Entertainment/Recreation
Level of Significance:	LOCAL
Other Designation:	Not Reported
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	1
# of Contrib Sites:	Not Reported
# of Contrib Structs:	Not Reported
# of Contrib Objects:	Not Reported
Historical Uses:	SOCIAL: Meeting Hall

UNMAPPABLE HISTORIC SITES

Due to poor or inadequate address information, the following sites were not mapped:

Status
EDR ID
Database

Current Uses:	SOCIAL: Meeting Hall
Architectural Style:	No Style Listed
Description-Other Arch Style:	Not Reported
Architects:	John & George Biehr
Demolished:	False

Columbus Avenue Historic District
102-162 Columbus Ave
Sandusky, OH

Unmappable
OH2016000001036
OH Historic Sites

Other Name:	Not Reported
Multiple Property Name:	Sandusky Multiple Resource Area
NR Reference #:	83001961
NR Listing Date:	01/20/1983
Property Type:	DISTRICT
Applicable Criteria:	Event,Architecture/Engineering
Significant Person:	Not Reported
Significant Period(s):	1900-1924,1875-1899,1850-1874
Significant Area(s):	Architecture,Commerce
Level of Significance:	LOCAL
Other Designation:	Not Reported
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	8
# of Contrib Sites:	Not Reported
# of Contrib Structs:	Not Reported
# of Contrib Objects:	Not Reported
Historical Uses:	RECREATION AND CULTURE: Theater
Current Uses:	COMMERCE/TRADE
Architectural Style:	Late Victorian
Description-Other Arch Style:	Not Reported
Architects:	Not Reported
Demolished:	False

Converse-Mertz Apartments
301-303 E Washington St
Sandusky, OH

Unmappable
OH2016000001038
OH Historic Sites

Other Name:	Not Reported
Multiple Property Name:	Sandusky Multiple Resource Area
NR Reference #:	82001388
NR Listing Date:	10/20/1982
Property Type:	BUILDING
Applicable Criteria:	Architecture/Engineering
Significant Person:	Not Reported
Significant Period(s):	1850-1874,1825-1849

UNMAPPABLE HISTORIC SITES

Due to poor or inadequate address information, the following sites were not mapped:

Status
EDR ID
Database

Significant Area(s):	Architecture
Level of Significance:	LOCAL
Other Designation:	Not Reported
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	1
# of Contrib Sites:	Not Reported
# of Contrib Structs:	Not Reported
# of Contrib Objects:	Not Reported
Historical Uses:	DOMESTIC: Hotel
Current Uses:	DOMESTIC: Multiple Dwelling
Architectural Style:	Greek Revival
Description-Other Arch Style:	Not Reported
Architects:	Sheldon Smith
Demolished:	False

Dentzel, William H., 1921 Carousel
Frontiertown, Cedar Point Amusement Park
Sandusky, OH

Unmappable
OH2016000001043
OH Historic Sites

Other Name:	Frontier Carousel
Multiple Property Name:	Sandusky Multiple Resource Area
NR Reference #:	90000627
NR Listing Date:	11/08/1990
Property Type:	STRUCTURE
Applicable Criteria:	Event
Significant Person:	Not Reported
Significant Period(s):	1900-1924
Significant Area(s):	Entertainment/Recreation
Level of Significance:	LOCAL
Other Designation:	DATE RECEIVED/PENDING NOMINATION
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	Not Reported
# of Contrib Sites:	Not Reported
# of Contrib Structs:	1
# of Contrib Objects:	Not Reported
Historical Uses:	RECREATION AND CULTURE: Fair
Current Uses:	RECREATION AND CULTURE: Fair
Architectural Style:	Not Reported
Description-Other Arch Style:	Not Reported
Architects:	Daniel C Muller; William H Dentzel,Charles I D Loof; Angelo Calsamilia
Demolished:	False

Dentzel, William H., 1924 Carousel
Kiddieland, Cedar Point Amusement Park
Sandusky, OH

Unmappable
OH2016000001044
OH Historic Sites

UNMAPPABLE HISTORIC SITES

Due to poor or inadequate address information, the following sites were not mapped:

Status
EDR ID
Database

Other Name:	Kiddieland Carousel
Multiple Property Name:	Sandusky Multiple Resource Area
NR Reference #:	90000625
NR Listing Date:	11/08/1990
Property Type:	STRUCTURE
Applicable Criteria:	Architecture/Engineering
Significant Person:	Not Reported
Significant Period(s):	1925-1949,1900-1924
Significant Area(s):	Art
Level of Significance:	LOCAL
Other Designation:	DATE RECEIVED/PENDING NOMINATION
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	Not Reported
# of Contrib Sites:	Not Reported
# of Contrib Structs:	1
# of Contrib Objects:	Not Reported
Historical Uses:	RECREATION AND CULTURE: Fair
Current Uses:	RECREATION AND CULTURE: Fair
Architectural Style:	Not Reported
Description-Other Arch Style:	Not Reported
Architects:	Daniel Muller,William H Dentzel
Demolished:	False

Doerzbach, George J, House
1208-1210 Central Ave
Sandusky, OH

Unmappable
OH2016000001045
OH Historic Sites

Other Name:	Not Reported
Multiple Property Name:	Not Reported
NR Reference #:	87000639
NR Listing Date:	04/23/1987
Property Type:	BUILDING
Applicable Criteria:	Architecture/Engineering
Significant Person:	Not Reported
Significant Period(s):	1900-1924
Significant Area(s):	Architecture
Level of Significance:	LOCAL
Other Designation:	DATE RECEIVED/PENDING NOMINATION
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	1
# of Contrib Sites:	Not Reported
# of Contrib Structs:	Not Reported
# of Contrib Objects:	Not Reported
Historical Uses:	DOMESTIC: Single Dwelling
Current Uses:	DOMESTIC: Single Dwelling
Architectural Style:	Renaissance,Other
Description-Other Arch Style:	Dutch Revival
Architects:	G William Doerzbach & Bro
Demolished:	False

UNMAPPABLE HISTORIC SITES

Due to poor or inadequate address information, the following sites were not mapped:

Status
EDR ID
Database

Erie County Infirmary
S of Sandusky on Columbus Rd
Sandusky, OH

Unmappable
OH2016000001051
OH Historic Sites

Other Name:	Erie County Home
Multiple Property Name:	Not Reported
NR Reference #:	75001387
NR Listing Date:	09/05/1975
Property Type:	BUILDING
Applicable Criteria:	Event,Architecture/Engineering
Significant Person:	Not Reported
Significant Period(s):	1875-1899
Significant Area(s):	Architecture,Social History
Level of Significance:	LOCAL
Other Designation:	Not Reported
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	1
# of Contrib Sites:	Not Reported
# of Contrib Structs:	Not Reported
# of Contrib Objects:	Not Reported
Historical Uses:	DOMESTIC: Institutional Housing
Current Uses:	DOMESTIC
Architectural Style:	Second Empire
Description-Other Arch Style:	Not Reported
Architects:	George Phillip Feick
Demolished:	False

Exchange Hotel (DELISTED)
202-204 E Water St
Sandusky, OH

Unmappable
OH2016000001055
OH Historic Sites

Other Name:	Wayne Hotel;Porterhouse Hotel
Multiple Property Name:	Not Reported
NR Reference #:	75001388
NR Listing Date:	10/29/1985
Property Type:	BUILDING
Applicable Criteria:	Person,Architecture/Engineering
Significant Person:	Dickens,Charles
Significant Period(s):	1825-1849
Significant Area(s):	Architecture,Literature
Level of Significance:	STATE
Other Designation:	Not Reported
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	1
# of Contrib Sites:	0
# of Contrib Structs:	0
# of Contrib Objects:	0
Historical Uses:	DOMESTIC: Hotel
Current Uses:	DOMESTIC: Hotel,COMMERCE/TRADE: Restaurant

UNMAPPABLE HISTORIC SITES

Due to poor or inadequate address information, the following sites were not mapped:

Status
EDR ID
Database

Architectural Style:	No Style Listed
Description-Other Arch Style:	Not Reported
Architects:	Not Reported
Demolished:	True

Feick Building
158-160 E Market St
Sandusky, OH

Unmappable
OH2016000001057
OH Historic Sites

Other Name:	Not Reported
Multiple Property Name:	Not Reported
NR Reference #:	09000848
NR Listing Date:	10/22/2009
Property Type:	BUILDING
Applicable Criteria:	Event,Architecture/Engineering
Significant Person:	Not Reported
Significant Period(s):	1900-1924
Significant Area(s):	Commerce,Architecture
Level of Significance:	LOCAL
Other Designation:	Not Reported
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	1
# of Contrib Sites:	Not Reported
# of Contrib Structs:	Not Reported
# of Contrib Objects:	Not Reported
Historical Uses:	COMMERCE/TRADE: Business,COMMERCE/TRADE: Financial Institution,EDUCATION: School
Current Uses:	COMMERCE/TRADE: Business
Architectural Style:	Late 19th and Early 20th Century American Movements,Early Commercial
Description-Other Arch Style:	Not Reported
Architects:	Purcell & Feick/George Feick & Company,George Feick, Jr/George Feick & Sons Company
Demolished:	False

Follett-Moss-Moss Residences
404, 414, 428 Wayne St
Sandusky, OH

Unmappable
OH2016000001060
OH Historic Sites

Other Name:	Not Reported
Multiple Property Name:	Not Reported
NR Reference #:	74001471
NR Listing Date:	12/31/1974
Property Type:	BUILDING
Applicable Criteria:	Person,Architecture/Engineering
Significant Person:	Follett,Oran

UNMAPPABLE HISTORIC SITES

Due to poor or inadequate address information, the following sites were not mapped:

Status
EDR ID
Database

Significant Period(s):	1875-1899,1850-1874,1825-1849
Significant Area(s):	Architecture,Politics/Government,Social History
Level of Significance:	STATE
Other Designation:	Not Reported
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	3
# of Contrib Sites:	Not Reported
# of Contrib Structs:	Not Reported
# of Contrib Objects:	Not Reported
Historical Uses:	DOMESTIC: Single Dwelling
Current Uses:	DOMESTIC: Single Dwelling,RECREATION AND CULTURE: Museum
Architectural Style:	Greek Revival,Gothic Revival,Italianate
Description-Other Arch Style:	Not Reported
Architects:	Not Reported
Demolished:	False

Great American Racing Derby
Midway, Cedar Point Amusement Park
Sandusky, OH

Unmappable
OH2016000001065
OH Historic Sites

Other Name:	Cedar Downs Racing Derby
Multiple Property Name:	Sandusky Multiple Resource Area
NR Reference #:	90000626
NR Listing Date:	11/08/1990
Property Type:	STRUCTURE
Applicable Criteria:	Architecture/Engineering
Significant Person:	Not Reported
Significant Period(s):	1900-1924
Significant Area(s):	Engineering
Level of Significance:	LOCAL
Other Designation:	DATE RECEIVED/PENDING NOMINATION
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	Not Reported
# of Contrib Sites:	Not Reported
# of Contrib Structs:	1
# of Contrib Objects:	Not Reported
Historical Uses:	RECREATION AND CULTURE: Fair
Current Uses:	RECREATION AND CULTURE: Fair
Architectural Style:	Not Reported
Description-Other Arch Style:	Not Reported
Architects:	Royle C Williams,Prior & Church
Demolished:	False

Holy Angels Church
West Jefferson St at Tiffin Ave & Clinton St
Sandusky, OH

Unmappable
OH2016000001072
OH Historic Sites

UNMAPPABLE HISTORIC SITES

Due to poor or inadequate address information, the following sites were not mapped:

Status
EDR ID
Database

Other Name:	Not Reported
Multiple Property Name:	Sandusky Multiple Resource Area
NR Reference #:	82001410
NR Listing Date:	10/20/1982
Property Type:	BUILDING
Applicable Criteria:	Architecture/Engineering
Significant Person:	Not Reported
Significant Period(s):	1825-1849
Significant Area(s):	Architecture
Level of Significance:	LOCAL
Other Designation:	Not Reported
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	3
# of Contrib Sites:	Not Reported
# of Contrib Structs:	Not Reported
# of Contrib Objects:	Not Reported
Historical Uses:	RELIGION: Religious Structure
Current Uses:	RELIGION: Religious Structure
Architectural Style:	Gothic Revival
Description-Other Arch Style:	Not Reported
Architects:	Robert Cassidy
Demolished:	False

Hotel Breakers (DELISTED)
Cedar Point
Sandusky, OH

Unmappable
OH2016000001073
OH Historic Sites

Other Name:	Not Reported
Multiple Property Name:	Not Reported
NR Reference #:	82003565
NR Listing Date:	06/06/2001
Property Type:	BUILDING
Applicable Criteria:	Event,Architecture/Engineering
Significant Person:	Not Reported
Significant Period(s):	1925-1949,1900-1924
Significant Area(s):	Architecture,Entertainment/Recreation
Level of Significance:	NATIONAL
Other Designation:	LISTED IN THE NATIONAL REGISTER
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	1
# of Contrib Sites:	0
# of Contrib Structs:	0
# of Contrib Objects:	0
Historical Uses:	DOMESTIC: Hotel
Current Uses:	DOMESTIC: Hotel
Architectural Style:	Late 19th and 20th Century Revivals,Other
Description-Other Arch Style:	French Chateau
Architects:	Knox & Elliott
Demolished:	True

UNMAPPABLE HISTORIC SITES

Due to poor or inadequate address information, the following sites were not mapped:

Status
EDR ID
Database

Lake Shore And Michigan Southern Railroad Depot
N Depot at Carr St
Sandusky, OH

Unmappable
OH2016000001082
OH Historic Sites

Other Name:	Sandusky Penn Central Depot
Multiple Property Name:	Not Reported
NR Reference #:	75001389
NR Listing Date:	07/17/1975
Property Type:	BUILDING
Applicable Criteria:	Event,Architecture/Engineering
Significant Person:	Not Reported
Significant Period(s):	1875-1899
Significant Area(s):	Architecture,Transportation
Level of Significance:	STATE
Other Designation:	Not Reported
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	2
# of Contrib Sites:	Not Reported
# of Contrib Structs:	Not Reported
# of Contrib Objects:	Not Reported
Historical Uses:	TRANSPORTATION: Rail-Related
Current Uses:	TRANSPORTATION: Rail-Related
Architectural Style:	Other
Description-Other Arch Style:	Richardsonian
Architects:	Shepley Rutan & Coolidge,A Feick & Bros
Demolished:	False

Lea Block
174-186 E Market St
Sandusky, OH

Unmappable
OH2016000001084
OH Historic Sites

Other Name:	Not Reported
Multiple Property Name:	Sandusky Multiple Resource Area
NR Reference #:	82001418
NR Listing Date:	10/20/1982
Property Type:	BUILDING
Applicable Criteria:	Architecture/Engineering
Significant Person:	Not Reported
Significant Period(s):	1875-1899
Significant Area(s):	Architecture
Level of Significance:	LOCAL
Other Designation:	Not Reported
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	1
# of Contrib Sites:	Not Reported
# of Contrib Structs:	Not Reported
# of Contrib Objects:	Not Reported
Historical Uses:	Not Reported
Current Uses:	COMMERCE/TRADE

UNMAPPABLE HISTORIC SITES

Due to poor or inadequate address information, the following sites were not mapped:

Status
EDR ID
Database

Architectural Style:	Romanesque
Description-Other Arch Style:	Not Reported
Architects:	Not Reported
Demolished:	False

Mad River Block
1002-1018 W Adams St
Sandusky, OH

Unmappable
OH2016000001086
OH Historic Sites

Other Name:	Not Reported
Multiple Property Name:	Not Reported
NR Reference #:	74001472
NR Listing Date:	10/16/1974
Property Type:	BUILDING
Applicable Criteria:	Event,Architecture/Engineering
Significant Person:	Not Reported
Significant Period(s):	1825-1849
Significant Area(s):	Architecture,Social History
Level of Significance:	LOCAL
Other Designation:	Not Reported
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	9
# of Contrib Sites:	Not Reported
# of Contrib Structs:	Not Reported
# of Contrib Objects:	Not Reported
Historical Uses:	DOMESTIC: Single Dwelling
Current Uses:	DOMESTIC: Single Dwelling
Architectural Style:	Greek Revival
Description-Other Arch Style:	Not Reported
Architects:	Not Reported
Demolished:	False

Muller, Daniel C, Carousel
Midway at Cedar Point
Sandusky, OH

Unmappable
OH2016000001095
OH Historic Sites

Other Name:	Not Reported
Multiple Property Name:	Sandusky Multiple Resource Area
NR Reference #:	82001426
NR Listing Date:	10/20/1982
Property Type:	STRUCTURE
Applicable Criteria:	Event,Architecture/Engineering
Significant Person:	Not Reported
Significant Period(s):	1900-1924
Significant Area(s):	Architecture,Entertainment/Recreation

UNMAPPABLE HISTORIC SITES

Due to poor or inadequate address information, the following sites were not mapped:

Status
EDR ID
Database

Level of Significance:	LOCAL
Other Designation:	Not Reported
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	Not Reported
# of Contrib Sites:	Not Reported
# of Contrib Structs:	1
# of Contrib Objects:	Not Reported
Historical Uses:	RECREATION AND CULTURE: Fair
Current Uses:	RECREATION AND CULTURE: Fair
Architectural Style:	No Style Listed
Description-Other Arch Style:	Not Reported
Architects:	David Muller & Bro
Demolished:	False

Ohio Soldiers' And Sailors' Home
NE of Sandusky btwn US 250 & S Columbus Ave
Sandusky, OH

Unmappable
OH2016000001099
OH Historic Sites

Other Name:	Not Reported
Multiple Property Name:	Not Reported
NR Reference #:	76001418
NR Listing Date:	09/13/1976
Property Type:	BUILDING
Applicable Criteria:	Event,Architecture/Engineering
Significant Person:	Not Reported
Significant Period(s):	1875-1899
Significant Area(s):	Architecture,Military
Level of Significance:	STATE
Other Designation:	Not Reported
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	37
# of Contrib Sites:	Not Reported
# of Contrib Structs:	Not Reported
# of Contrib Objects:	Not Reported
Historical Uses:	DOMESTIC: Single Dwelling,DOMESTIC: Secondary Structure,HEALTH CARE: Hospital
Current Uses:	DOMESTIC: Single Dwelling,DOMESTIC: Secondary Structure,HEALTH CARE: Hospital
Architectural Style:	Other
Description-Other Arch Style:	Richardsonian Romanesque
Architects:	Not Reported
Demolished:	False

Ohio Theatre (DELISTED)
205-211 W Market St
Sandusky, OH

Unmappable
OH2016000001100
OH Historic Sites

UNMAPPABLE HISTORIC SITES

Due to poor or inadequate address information, the following sites were not mapped:

Status
EDR ID
Database

Other Name:	Schade Theatre
Multiple Property Name:	Sandusky Multiple Resource Area
NR Reference #:	82001429
NR Listing Date:	10/29/1985
Property Type:	BUILDING
Applicable Criteria:	Architecture/Engineering
Significant Person:	Not Reported
Significant Period(s):	1900-1924
Significant Area(s):	Architecture
Level of Significance:	LOCAL
Other Designation:	LISTED IN THE NATIONAL REGISTER
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	1
# of Contrib Sites:	0
# of Contrib Structs:	0
# of Contrib Objects:	0
Historical Uses:	RECREATION AND CULTURE: Theater
Current Uses:	Not Reported
Architectural Style:	No Style Listed
Description-Other Arch Style:	Not Reported
Architects:	Not Reported
Demolished:	True

Schine State Theatre
101-109 Columbus Ave
Sandusky, OH

Unmappable
OH2016000001106
OH Historic Sites

Other Name:	State Theatre
Multiple Property Name:	Sandusky Multiple Resource Area
NR Reference #:	82001435
NR Listing Date:	10/20/1982
Property Type:	BUILDING
Applicable Criteria:	Architecture/Engineering
Significant Person:	Not Reported
Significant Period(s):	1925-1949
Significant Area(s):	Architecture
Level of Significance:	LOCAL
Other Designation:	Not Reported
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	1
# of Contrib Sites:	Not Reported
# of Contrib Structs:	Not Reported
# of Contrib Objects:	Not Reported
Historical Uses:	COMMERCE/TRADE: Business,COMMERCE/TRADE: Specialty Store,RECREATION AND CULTURE: Theater
Current Uses:	COMMERCE/TRADE: Business,COMMERCE/TRADE: Specialty Store,RECREATION AND CULTURE: Theater
Architectural Style:	Mission/Spanish Revival
Description-Other Arch Style:	Not Reported
Architects:	Not Reported

UNMAPPABLE HISTORIC SITES

Due to poor or inadequate address information, the following sites were not mapped:

Status
EDR ID
Database

Demolished: False

Spacecraft Propulsion Research Facility
Lewis Research Center, Plum Brook Station
Sandusky, OH

Unmappable
OH2016000001111
OH Historic Sites

Other Name:	Not Reported
Multiple Property Name:	Not Reported
NR Reference #:	85002802
NR Listing Date:	10/03/1985
Property Type:	STRUCTURE
Applicable Criteria:	Event,Architecture/Engineering
Significant Person:	Not Reported
Significant Period(s):	1950-1974
Significant Area(s):	Engineering,Transportation,Other
Level of Significance:	NATIONAL
Other Designation:	DESIGNATED NATIONAL LANDMARK
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	3
# of Contrib Sites:	Not Reported
# of Contrib Structs:	4
# of Contrib Objects:	Not Reported
Historical Uses:	EDUCATION: Research Facility,TRANSPORTATION: Air-Related
Current Uses:	EDUCATION: Research Facility,TRANSPORTATION: Air-Related
Architectural Style:	No Style Listed
Description-Other Arch Style:	Not Reported
Architects:	NASA
Demolished:	False

Sts Peter & Paul Church and Rectory
Columbus Ave at E Jefferson St
Sandusky, OH

Unmappable
OH2016000001121
OH Historic Sites

Other Name:	Not Reported
Multiple Property Name:	Sandusky Multiple Resource Area
NR Reference #:	83001963
NR Listing Date:	01/20/1983
Property Type:	BUILDING
Applicable Criteria:	Event,Architecture/Engineering
Significant Person:	Not Reported
Significant Period(s):	1850-1874
Significant Area(s):	Architecture,European
Level of Significance:	LOCAL
Other Designation:	Not Reported
Cultural Affiliation:	Not Reported

UNMAPPABLE HISTORIC SITES

Due to poor or inadequate address information, the following sites were not mapped:

Status
EDR ID
Database

# of Contrib Bldgs:	1
# of Contrib Sites:	Not Reported
# of Contrib Structs:	Not Reported
# of Contrib Objects:	Not Reported
Historical Uses:	RELIGION: Religious Structure,RELIGION: Church Related Residence
Current Uses:	RELIGION: Religious Structure,RELIGION: Church Related Residence
Architectural Style:	Gothic,Italianate
Description-Other Arch Style:	Not Reported
Architects:	Patrick Charles Keely
Demolished:	False

Sycamore School
3rd & Sycamore Sts
Sandusky, OH

Unmappable
OH2016000001122
OH Historic Sites

Other Name:	Not Reported
Multiple Property Name:	Not Reported
NR Reference #:	74001473
NR Listing Date:	11/19/1974
Property Type:	BUILDING
Applicable Criteria:	Architecture/Engineering
Significant Person:	Not Reported
Significant Period(s):	1875-1899
Significant Area(s):	Architecture
Level of Significance:	LOCAL
Other Designation:	Not Reported
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	1
# of Contrib Sites:	Not Reported
# of Contrib Structs:	Not Reported
# of Contrib Objects:	Not Reported
Historical Uses:	EDUCATION: School
Current Uses:	EDUCATION: School
Architectural Style:	Italianate
Description-Other Arch Style:	Not Reported
Architects:	Not Reported
Demolished:	False

U S Coast Guard Building
Cedar Point, Off Perimeter Rd
Sandusky, OH

Unmappable
OH2016000001126
OH Historic Sites

Other Name:	Cedar Point Rear Range Light
Multiple Property Name:	Sandusky Multiple Resource Area
NR Reference #:	82001449

UNMAPPABLE HISTORIC SITES

Due to poor or inadequate address information, the following sites were not mapped:

Status
EDR ID
Database

NR Listing Date:	10/20/1982
Property Type:	BUILDING
Applicable Criteria:	Event
Significant Person:	Not Reported
Significant Period(s):	1850-1874
Significant Area(s):	Maritime History
Level of Significance:	LOCAL
Other Designation:	Not Reported
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	1
# of Contrib Sites:	Not Reported
# of Contrib Structs:	Not Reported
# of Contrib Objects:	Not Reported
Historical Uses:	DEFENSE: Coast Guard Facility
Current Uses:	COMMERCE/TRADE: Business
Architectural Style:	No Style Listed
Description-Other Arch Style:	Not Reported
Architects:	Not Reported
Demolished:	False

U S Post Office
West Washington & Jackson Sts
Sandusky, OH

Unmappable
OH2016000001127
OH Historic Sites

Other Name:	Not Reported
Multiple Property Name:	Sandusky Multiple Resource Area
NR Reference #:	82001450
NR Listing Date:	10/20/1982
Property Type:	BUILDING
Applicable Criteria:	Architecture/Engineering
Significant Person:	Not Reported
Significant Period(s):	1925-1949
Significant Area(s):	Architecture
Level of Significance:	LOCAL
Other Designation:	Not Reported
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	1
# of Contrib Sites:	Not Reported
# of Contrib Structs:	Not Reported
# of Contrib Objects:	Not Reported
Historical Uses:	GOVERNMENT: Post Office
Current Uses:	GOVERNMENT: Post Office
Architectural Style:	Other
Description-Other Arch Style:	Neo-Classical
Architects:	Not Reported
Demolished:	False

Wagner Palace
804-806 Hayes Ave
Sandusky, OH

Unmappable
OH2016000001130
OH Historic Sites

UNMAPPABLE HISTORIC SITES

Due to poor or inadequate address information, the following sites were not mapped:

Status
EDR ID
Database

Other Name:	Not Reported
Multiple Property Name:	Sandusky Multiple Resource Area
NR Reference #:	82001453
NR Listing Date:	10/20/1982
Property Type:	BUILDING
Applicable Criteria:	Architecture/Engineering
Significant Person:	Not Reported
Significant Period(s):	1875-1899
Significant Area(s):	Architecture
Level of Significance:	LOCAL
Other Designation:	Not Reported
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	1
# of Contrib Sites:	Not Reported
# of Contrib Structs:	Not Reported
# of Contrib Objects:	Not Reported
Historical Uses:	COMMERCE/TRADE: Restaurant
Current Uses:	COMMERCE/TRADE
Architectural Style:	Second Empire
Description-Other Arch Style:	Not Reported
Architects:	Not Reported
Demolished:	False

Water Street Commercial Buildings
101-165 E Water St & 101-231 W Water St
Sandusky, OH

Unmappable
OH2016000001131
OH Historic Sites

Other Name:	Not Reported
Multiple Property Name:	Not Reported
NR Reference #:	75001392
NR Listing Date:	03/18/1975
Property Type:	DISTRICT
Applicable Criteria:	Event,Architecture/Engineering
Significant Person:	Not Reported
Significant Period(s):	1875-1899,1850-1874
Significant Area(s):	Architecture,Art,Commerce,Performing Arts
Level of Significance:	STATE
Other Designation:	Not Reported
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	15
# of Contrib Sites:	Not Reported
# of Contrib Structs:	Not Reported
# of Contrib Objects:	Not Reported
Historical Uses:	COMMERCE/TRADE: Business,COMMERCE/TRADE: Specialty Store
Current Uses:	COMMERCE/TRADE: Business,COMMERCE/TRADE: Specialty Store
Architectural Style:	Italianate,Romanesque,Renaissance
Description-Other Arch Style:	Not Reported
Architects:	Not Reported
Demolished:	False

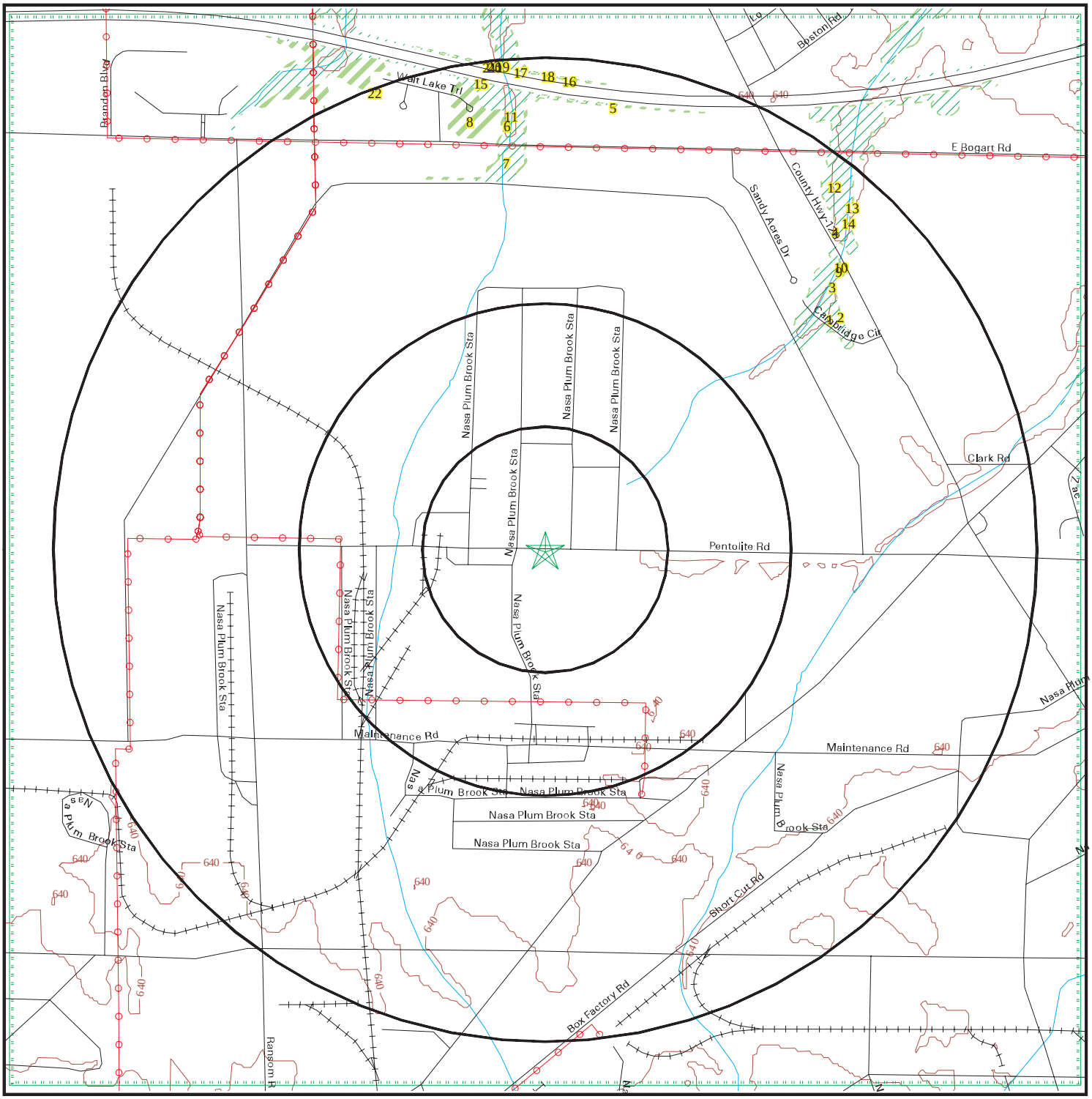
UNMAPPABLE HISTORIC SITES

Due to poor or inadequate address information, the following sites were not mapped:

	Status EDR ID Database
Zion Lutheran Church **501-503 Columbus Ave** **Sandusky, OH**	**Unmappable** **OH2016000001136** **OH Historic Sites**

Other Name:	Not Reported
Multiple Property Name:	Sandusky Multiple Resource Area
NR Reference #:	82001456
NR Listing Date:	10/20/1982
Property Type:	BUILDING
Applicable Criteria:	Event,Architecture/Engineering
Significant Person:	Not Reported
Significant Period(s):	1875-1899
Significant Area(s):	Architecture,Religion
Level of Significance:	LOCAL
Other Designation:	Not Reported
Cultural Affiliation:	Not Reported
# of Contrib Bldgs:	2
# of Contrib Sites:	Not Reported
# of Contrib Structs:	Not Reported
# of Contrib Objects:	Not Reported
Historical Uses:	RELIGION: Religious Structure
Current Uses:	RELIGION: Religious Structure
Architectural Style:	Romanesque
Description-Other Arch Style:	Not Reported
Architects:	George Feick
Demolished:	False

Flood Plain Map



0 1/4 1/2 1 Miles

- Major Roads
- Contour Lines
- Waterways
- County Boundary
- Power Lines
- Pipe Lines
- Fault Lines
- Water
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- Electronic FEMA data available
- Electronic FEMA data not available

SITE NAME:	GRC North Plot	CLIENT:	Terracon
ADDRESS:	Pentolite Road and Ransom Road Sandusky OH 44870	CONTACT:	Kelly Macwhinnie
LAT/LONG:	41.384265 / -82.683822	INQUIRY #:	7772100.2s
		DATE:	September 23, 2024

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FLOOD PLAIN MAP FINDINGS

Source: FEMA FIRM Flood Data, FEMA Q3 Flood Data

Flood Panel Number	**FEMA Source Type**

Flood Plain panel at target property:

39043C0095E	(FEMA FIRM Flood data)

Additional Flood Plain panel(s) in search area:

39043C0090E	(FEMA FIRM Flood data)
39043C0205E	(FEMA FIRM Flood data)
3901530075C	(FEMA Q3 Flood data)

Map ID Direction Distance Distance (ft.)	Description		Database
1 NE 1/2-1 mi 3456	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE Not Reported	FLOODPLAIN
2 NE 1/2-1 mi 3470	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
3 NE 1/2-1 mi 3483	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE FLOODWAY	FLOODPLAIN
4 NE 1/2-1 mi 3526	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
5 North 1/2-1 mi 3959	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN

FLOOD PLAIN MAP FINDINGS

Map ID Direction Distance Distance (ft.)	Description		Database
6 North 1/2-1 mi 3963	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE Not Reported	FLOODPLAIN
7 North 1/2-1 mi 4002	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE FLOODWAY	FLOODPLAIN
8 North 1/2-1 mi 4038	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
9 NE 1/2-1 mi 4228	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE Not Reported	FLOODPLAIN
10 NE 1/2-1 mi 4228	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
11 North 1/2-1 mi 4376	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE FLOODWAY	FLOODPLAIN
12 NE 1/2-1 mi 4522	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE Not Reported	FLOODPLAIN
13 NE 1/2-1 mi 4525	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN

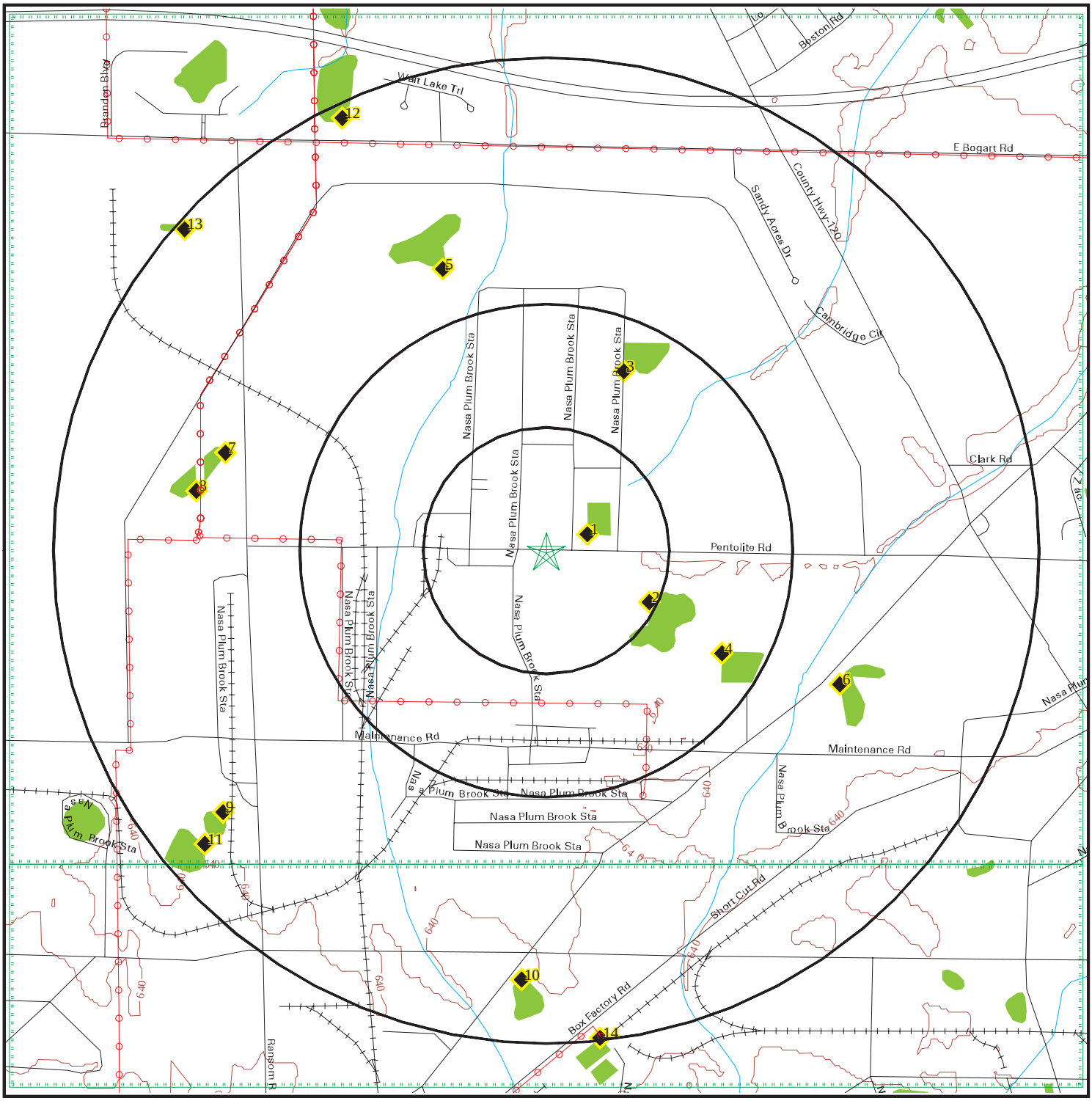
FLOOD PLAIN MAP FINDINGS

Map ID Direction Distance Distance (ft.)	Description		Database
14 NE 1/2-1 mi 4551	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE Not Reported	FLOODPLAIN
15 North 1/2-1 mi 4974	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
16 North 1/2-1 mi 5028	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
17 North 1/2-1 mi 5032	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE Not Reported	FLOODPLAIN
18 North 1/2-1 mi 5047	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
19 North 1/2-1 mi 5182	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE FLOODWAY	FLOODPLAIN
20 North 1/2-1 mi 5182	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE Not Reported	FLOODPLAIN
21 North 1/2-1 mi 5183	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN

FLOOD PLAIN MAP FINDINGS

Map ID Direction Distance Distance (ft.)	Description		Database
22 NNW 1/2-1 mi 5209	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
23 North 1/2-1 mi 5216	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN

Wetlands Map



0 1/4 1/2 1 Miles

- Major Roads
- Contour Lines
- Waterways
- County Boundary
- Power Lines
- Fault Lines
- Water
- National Wetlands Inventory
- Electronic NWI data available
- Electronic NWI data not available

SITE NAME:	GRC North Plot	CLIENT:	Terracon
ADDRESS:	Pentolite Road and Ransom Road Sandusky OH 44870	CONTACT:	Kelly Macwhinnie
LAT/LONG:	41.384265 / -82.683822	INQUIRY #:	7772100.2s
		DATE:	September 23, 2024

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WETLANDS MAP FINDINGS

Source: Fish and Wildlife Service NWI data

NWI hardcopy map at target property: Sandusky
Additional NWI hardcopy map(s) in search area:
Kimball

Map ID Direction Distance Distance (ft.)	Code and Description*	Database
1 ENE 0-1/8 mi 477	PUBG [P] Palustrine [UB] Unconsolidated Bottom [G] Intermittently Exposed Lat/Lon: 41.384747 / -82.682205	NWI
2 ESE 1/8-1/4 mi 1234	PSS1/EM1C [P] Palustrine [SS] Scrub Shrub [1] Broad-Leaved Deciduous / [EM] Emergent [1] Persistent [C] Seasonally Flooded Lat/Lon: 41.382751 / -82.679794	NWI
3 NNE 1/4-1/2 mi 2093	PFO1C [P] Palustrine [FO] Forested [1] Broad-Leaved Deciduous [C] Seasonally Flooded Lat/Lon: 41.389534 / -82.680786	NWI
4 ESE 1/4-1/2 mi 2180	PUBG [P] Palustrine [UB] Unconsolidated Bottom [G] Intermittently Exposed Lat/Lon: 41.381248 / -82.676964	NWI
5 NNW 1/2-1 mi 3213	PFO1C [P] Palustrine [FO] Forested [1] Broad-Leaved Deciduous [C] Seasonally Flooded Lat/Lon: 41.392544 / -82.687851	NWI
6 ESE 1/2-1 mi 3458	PEM1C [P] Palustrine [EM] Emergent [1] Persistent [C] Seasonally Flooded Lat/Lon: 41.380337 / -82.672356	NWI
7 WNW 1/2-1 mi 3594	PFO1C [P] Palustrine [FO] Forested [1] Broad-Leaved Deciduous [C] Seasonally Flooded Lat/Lon: 41.387146 / -82.696350	NWI
8 West 1/2-1 mi 3803	PFO1C [P] Palustrine [FO] Forested [1] Broad-Leaved Deciduous [C] Seasonally Flooded Lat/Lon: 41.386021 / -82.697479	NWI

*See Wetland Classification System for additional information.

WETLANDS MAP FINDINGS

Map ID Direction Distance Distance (ft.)	Code and Description*	Database
9 SW 1/2-1 mi 4452	PUBG [P] Palustrine [UB] Unconsolidated Bottom [G] Intermittently Exposed Lat/Lon: 41.376572 / -82.696434	NWI
10 South 1/2-1 mi 4602	PEM1C [P] Palustrine [EM] Emergent [1] Persistent [C] Seasonally Flooded Lat/Lon: 41.371651 / -82.684784	NWI
11 SW 1/2-1 mi 4821	PSS1C [P] Palustrine [SS] Scrub Shrub [1] Broad-Leaved Deciduous [C] Seasonally Flooded Lat/Lon: 41.375641 / -82.697151	NWI
12 NNW 1/2-1 mi 5124	PFO1C [P] Palustrine [FO] Forested [1] Broad-Leaved Deciduous [C] Seasonally Flooded Lat/Lon: 41.396984 / -82.691788	NWI
13 NW 1/2-1 mi 5182	PUBGx [P] Palustrine [UB] Unconsolidated Bottom [G] Intermittently Exposed [x] Excavated Lat/Lon: 41.393715 / -82.697937	NWI
14 South 1/2-1 mi 5252	PUBG [P] Palustrine [UB] Unconsolidated Bottom [G] Intermittently Exposed Lat/Lon: 41.369934 / -82.681717	NWI

*See Wetland Classification System for additional information.

WETLANDS CLASSIFICATION SYSTEM

National Wetland Inventory Maps are produced by the U.S. Fish and Wildlife Service, a sub-department of the U.S. Department of the Interior. In 1974, the U.S. Fish and Wildlife Service developed a criteria for wetland classification with four long range objectives:

- to describe ecological units that have certain homogeneous natural attributes,
- to arrange these units in a system that will aid decisions about resource management,
- to furnish units for inventory and mapping, and
- to provide uniformity in concepts and terminology throughout the U.S.

High altitude infrared photographs, soil maps, topographic maps and site visits are the methods used to gather data for the productions of these maps. In the infrared photos, wetlands appear as different colors and these wetlands are then classified by type. Using a hierarchical classification, the maps identify wetland and deepwater habitats according to:

- system
- subsystem
- class
- subclass
- modifiers

(as defined by Cowardin, et al. U.S. Fish and Wildlife Service FWS/OBS 79/31. 1979.)

The classification system consists of five systems:

1. marine
2. estuarine
3. riverine
4. lacustrine
5. palustrine

The marine system consists of deep water tidal habitats and adjacent tidal wetlands. The riverine system consists of all wetlands contained within a channel. The lacustrine systems includes all nontidal wetlands related to swamps, bogs & marshes. The estuarine system consists of deepwater tidal habitats and where ocean water is diluted by fresh water. The palustrine system includes nontidal wetlands dominated by trees and shrubs and where salinity is below .5% in tidal areas. All of these systems are divided in subsystems and then further divided into class.

National Wetland Inventory Maps are produced by transferring gathered data on a standard 7.5 minute U.S.G.S. topographic map. Approximately 52 square miles are covered on a National Wetland Inventory map at a scale of 1:24,000. Electronic data is compiled by digitizing these National Wetland Inventory Maps.

SYSTEM **MARINE**

SUBSYSTEM **1 - SUBTIDAL** **2 - INTERTIDAL**

	1 - SUBTIDAL					2 - INTERTIDAL			
CLASS	RB-ROCK BOTTOM	UB-UNCONSOLIDATED BOTTOM	AB-AQUATIC BED	RF-REEF	OW-OPEN WATER / Unknown Bottom	AB-AQUATIC BED	RF-REEF	RS-ROCKY SHORE	US-UNCONSOLIDATED SHORE
Subclass	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Algal 3 Rooted Vascular 5 Unknown Submergent	1 Coral 3 Worm		1 Algal 3 Rooted Vascular 5 Unknown Submergent	1 Coral 3 Worm	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic

SYSTEM **E - ESTUARINE**

SUBSYSTEM **1 - SUBTIDAL**

CLASS	RB-ROCK BOTTOM	UB-UNCONSOLIDATED BOTTOM	AB-AQUATIC BED	RF-REEF	OW-OPEN WATER / Unknown Bottom
Subclass	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Algal 3 Rooted Vascular 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface	2 Mollusk 3 Worm	

SUBSYSTEM **2 - INTERTIDAL**

CLASS	AB-AQUATIC BED	RF-REEF	SB - STREAMBED	RS-ROCKY SHORE	US-UNCONSOLIDATED SHORE	EM-EMERGENT	SS-SCRUB SHRUB	FO-FORESTED
Subclass	1 Algal 3 Rooted Vascular 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface	2 Mollusk 3 Worm	1 Cobble- Gravel 2 Sand 3 Mud 4 Organic	1 Bedrock 2 Rubble	1 Cobble- Gravel 2 Sand 3 Mud 4 Organic	1 Persistent 2 Nonpersistent	1 Broad-Leaved Deciduous 2 Needle-Leaved Deciduous 3 Broad-Leaved Evergreen 4 Needle-Leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	1 Broad-Leaved Deciduous 2 Needle-Leaved Deciduous 3 Broad-Leaved Evergreen 4 Needle-Leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen

SYSTEM — **R - RIVERINE**

SUBSYSTEM	**1 - TIDAL**	**2 - LOWER PERENNIAL**	**3 - UPPER PERENNIAL**	**4 - INTERMITTENT**	**5 - UNKNOWN PERENNIAL**
CLASS	RB-ROCK BOTTOM UB-UNCONSOLIDATED BOTTOM *SB-STREAMBED AB-AQUATIC BED RS-ROCKY SHORE US-UNCONSOLIDATED SHORE **EM-EMERGENT OW-OPEN WATER/ Unknown Bottom				
Subclass	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Bedrock 2 Rubble 3 Cobble-Gravel 4 Sand 5 Mud 6 Organic 7 Vegetated	1 Algal 2 Aquatic Moss 3 Rooted Vascular 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated	2 Nonpersistent

* STREAMBED is limited to TIDAL and INTERMITTENT SUBSYSTEMS, and comprises the only CLASS in the INTERMITTENT SUBSYSTEM.
**EMERGENT is limited to TIDAL and LOWER PERENNIAL SUBSYSTEMS.

SYSTEM — **L - LACUSTRINE**

SUBSYSTEM — **1 - LIMNETIC**

CLASS	RB-ROCK BOTTOM	UB-UNCONSOLIDATED BOTTOM	AB-AQUATIC BED	OW-OPEN WATER/ Unknown Bottom
Subclass	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Algal 2 Aquatic Moss 3 Rooted Vascular 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface	

SUBSYSTEM — **2 - LITTORAL**

CLASS	RB-ROCK BOTTOM	UB-UNCONSOLIDATED BOTTOM	AB-AQUATIC BED	RS-ROCKY SHORE	US-UNCONSOLIDATED SHORE	EM-EMERGENT	OW-OPEN WATER/ Unknown Bottom
Subclass	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Algal 2 Aquatic Moss 3 Rooted Vascular 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated	2 Nonpersistent	

SUBSYSTEM **P - PALUSTRINE**

CLASS	RB--ROCK BOTTOM	UB--UNCONSOLIDATED BOTTOM	AB-AQUATIC BED	US--UNCONSOLIDATED SHORE	ML--MOSS-LICHEN	EM--EMERGENT	SS--SCRUB-SHRUB	FO--FORESTED	OW-OPEN WATER/ Unknown Bottom
Subclass	1 Bedrock 2 Rubble 3 Mud 4 Organic	1 Cobble-Gravel 2 Sand	1 Algal 2 Aquatic Moss 3 Rooted Vascular 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated	1 Moss 2 Lichen	1 Persistent 2 Nonpersistent	1 Broad-Leaved Deciduous 2 Needle-Leaved Deciduous 3 Broad-Leaved Evergreen 4 Needle-Leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	1 Broad-Leaved Deciduous 2 Needle-Leaved Deciduous 3 Broad-Leaved Evergreen 4 Needle-Leaved Evergreen 5 Dead 6Deciduous 7 Evergreen	

MODIFIERS

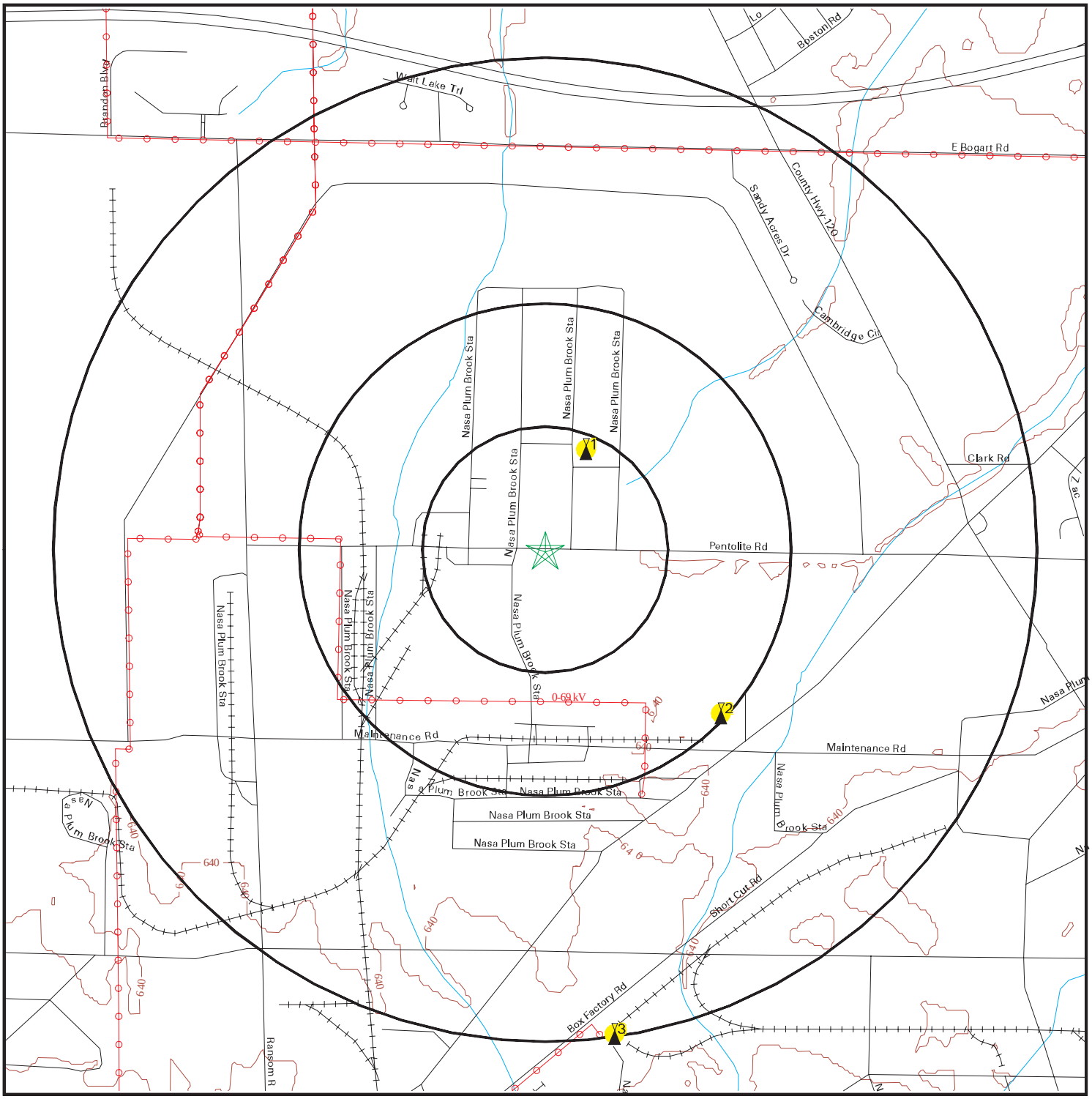
In order to more adequately describe wetland and deepwater habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIME				WATER CHEMISTRY			SOIL	SPECIAL MODIFIERS
Non-Tidal	**Tidal**	**Coastal**	**Halinity**	**Inland**	**Salinity**	**pH**	**Modifiers for all Fresh Water**	
A Temporarily Flooded B Saturated C Seasonally Flooded D Seasonally Flooded/ Well Drained E Seasonally Flooded/ Saturated F Semipermanently Flooded G Intermittently Exposed	H Permanently Flooded J Intermittently Flooded K Artificially Flooded W Intermittently Flooded/Temporary Y Saturated/Semipermanent/ Seasonal Z Intermittently Exposed/Permanent U Unknown	K Artificially Flooded L Subtidal M Irregularly Exposed N Regularly Flooded P Irregularly Flooded	*S Temporary-Tidal *R Seasonal-Tidal *T Semipermanent -Tidal V Permanent -Tidal U Unknown	1 Hyperhaline 2 Euhaline 3 Mixohaline (Brackish) 4 Polyhaline 5 Mesohaline 6 Oligohaline 0 Fresh	7 Hypersaline 8 Eusaline 9 Mixosaline 0 Fresh	a Acid t Circumneutral i Alkaline	g Organic n Mineral	b Beaver d Partially Drained/Ditched f Farmed h Diked/Impounded r Artificial Substrate s Spoil x Excavated

*These water regimes are only used in tidally influenced, freshwater systems.

Source: U.S. Department of the Interior
Fish and Wildlife Service
National Wetlands Inventory

FCC & FAA Sites Map



0 1/4 1/2 1 Miles

Streets
Contour Lines
County Boundary
Waterways
Power Lines
Water
Sites

SITE NAME: GRC North Plot ADDRESS: Pentolite Road and Ransom Road Sandusky OH 44870 LAT/LONG: 41.384265 / -82.683822	CLIENT: Terracon CONTACT: Kelly Macwhinnie INQUIRY #: 7772100.2s DATE: September 23, 2024

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FCC & FAA SITES MAP FINDINGS
TOWERS

Map ID Direction Distance Distance (ft.)	EDR ID Database
1 NNE 1/8-1/4 mi 1164	DOF161200230975 FAA DOF

Obstacle #:	39-000190
Obstacle Type:	TANK
Quantity:	2
Ft Above Ground:	193
Ft Above Sea Level:	824
Verification Status:	Verified
Lighting:	Red
Horizontal Accuracy:	+/- 250 ft
Vertical Accuracy:	+/- 50 ft
Markings:	Marked
Action:	Change
Action Date:	2014152

2 SE 1/4-1/2 mi 2577	DOF161200230921 FAA DOF

Obstacle #:	39-000695
Obstacle Type:	TOWER
Quantity:	1
Ft Above Ground:	205
Ft Above Sea Level:	842
Verification Status:	Verified
Lighting:	Red
Horizontal Accuracy:	+/- 500 ft
Vertical Accuracy:	+/- 50 ft
Markings:	Marked
Action:	Dismantle
Action Date:	1987082

FCC & FAA SITES MAP FINDINGS
TOWERS

Map ID Direction Distance Distance (ft.)	EDR ID Database
3 South 1/2-1 mi 5250	DOF161200230843 FAA DOF

Obstacle #:	39-001387
Obstacle Type:	BLDG
Quantity:	1
Ft Above Ground:	201
Ft Above Sea Level:	856
Verification Status:	Verified
Lighting:	Red
Horizontal Accuracy:	+/- 250 ft
Vertical Accuracy:	+/- 50 ft
Markings:	Unknown
Action:	Change
Action Date:	2014152

FCC & FAA SITES MAP FINDINGS
AIRPORTS

EDR ID
Database

No Sites Reported.

FCC & FAA SITES MAP FINDINGS
POWERLINES

EDR ID
Database

53933
POWERLINES

Voltage:	500
Range:	Not Reported
Hi voltage:	0
Volt cat:	346-500 kV
Type:	Alternating current
Status:	Active
Corridor:	Multiple lines
Owner:	Southern Company
Owner id:	SO
Num owners:	Single Owner
Operator:	Georgia Power
Operator id:	GPOW
Last owner:	Not Reported
Last own id:	Not Reported
Last oper:	Not Reported
Last oper id:	Not Reported
Mileage:	.30711129999999998

50187
POWERLINES

Voltage:	100
Range:	Yes
Hi voltage:	161
Volt cat:	70-138 kV
Type:	Alternating current
Status:	Active
Corridor:	Single line
Owner:	Tennessee Valley Authority
Owner id:	TVA
Num owners:	Single Owner
Operator:	Tennessee Valley Authority
Operator id:	TVA
Last owner:	Not Reported
Last own id:	Not Reported
Last oper:	Not Reported
Last oper id:	Not Reported
Mileage:	19.614453650000002

52256
POWERLINES

Voltage:	0
Range:	Not Reported
Hi voltage:	0
Volt cat:	0-69 kV
Type:	Alternating current

EDR ID
Database

Status:	Active
Corridor:	Single line
Owner:	Not Reported
Owner id:	Not Reported
Num owners:	Single Owner
Operator:	Not Reported
Operator id:	Not Reported
Last owner:	Not Reported
Last own id:	Not Reported
Last oper:	Not Reported
Last oper id:	Not Reported
Mileage:	.28743617999999999

50935
POWERLINES

Voltage:	69
Range:	Not Reported
Hi voltage:	0
Volt cat:	0-69 kV
Type:	Alternating current
Status:	Active
Corridor:	Single line
Owner:	Vectren Corporation
Owner id:	VECTREN
Num owners:	Single Owner
Operator:	Vectren Energy Delivery of Indiana Inc.
Operator id:	VECTDEL
Last owner:	Not Reported
Last own id:	Not Reported
Last oper:	Not Reported
Last oper id:	Not Reported
Mileage:	1.4117623699999999

52367
POWERLINES

Voltage:	0
Range:	Not Reported
Hi voltage:	0
Volt cat:	0-69 kV
Type:	Alternating current
Status:	Active
Corridor:	Single line
Owner:	AES Corporation
Owner id:	AES
Num owners:	Single Owner
Operator:	Indianapolis Power and Light Co.
Operator id:	IPL

EDR ID
Database

Last owner:	Not Reported
Last own id:	Not Reported
Last oper:	Not Reported
Last oper id:	Not Reported
Mileage:	.029825000000000001

52615
POWERLINES

Voltage:	230
Range:	Not Reported
Hi voltage:	0
Volt cat:	139-230 kV
Type:	Alternating current
Status:	Active
Corridor:	Multiple lines
Owner:	Duke Energy Corporation
Owner id:	DUKE
Num owners:	Single Owner
Operator:	Progress Energy Carolinas Inc.
Operator id:	CARPOW
Last owner:	Progress Energy Inc.
Last own id:	PROGENG
Last oper:	Not Reported
Last oper id:	Not Reported
Mileage:	7.0292068099999998

50745
POWERLINES

Voltage:	0
Range:	Not Reported
Hi voltage:	0
Volt cat:	0-69 kV
Type:	Alternating current
Status:	Active
Corridor:	Single line
Owner:	Not Reported
Owner id:	Not Reported
Num owners:	Single Owner
Operator:	Not Reported
Operator id:	Not Reported
Last owner:	Not Reported
Last own id:	Not Reported
Last oper:	Not Reported
Last oper id:	Not Reported
Mileage:	1.38756127

FCC & FAA SITES MAP FINDINGS
POWERLINES

EDR ID
Database

51048
POWERLINES

Voltage:	69
Range:	Not Reported
Hi voltage:	0
Volt cat:	0-69 kV
Type:	Alternating current
Status:	Active
Corridor:	Single line
Owner:	Duke Energy Corporation
Owner id:	DUKE
Num owners:	Single Owner
Operator:	Duke Energy Corporation
Operator id:	DUKE
Last owner:	PSI Energy Inc.
Last own id:	PSI
Last oper:	Not Reported
Last oper id:	Not Reported
Mileage:	1.6526858900000001

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

Various Federal laws and executive orders address specific environmental concerns. NEPA requires the responsible offices to integrate to the greatest practical extent the applicable procedures required by these laws and executive orders. EDR provides key contacts at agencies charged with implementing these laws and executive orders to supplement the information contained in this report.

NATURAL AREAS
Wilderness Areas
Government Records Searched in This Report

FED_LAND: Federal Lands
Source: USGS
Telephone: 703-648-5094
Federal data from Bureau of Land Management, National Park Service, Forest Service, and Fish and Wildlife Service.
- National Parks
- Forests
- Monuments
- Wildlife Sanctuaries, Preserves, Refuges
- Federal Wilderness Areas.

Date of Government Version: 12/31/2005

US NWP: National Wilderness Preservation System
This map layer consists of National Wilderness Preservation System areas of 320 acres or more, in the United States, Puerto Rico, and the U.S. Virgin Islands. Some established wilderness areas which are larger than 320 acres are not included in this map layer because their boundaries were not available from the owning or administering agency.
Source: U.S. Geological Survey.
Telephone: 888-275-8747

Federal Contacts for Additional Information

National Park Service, Midwest Region
1709 Jackson Street
Omaha NE 68102
402-221-3471

USDA Forest Service, Eastern
310 West Wisconsin Avenue
Milwaukee WI 53203
414-297-3693

BLM - Eastern States Office
7450 Boston Blvd.
Springfield VA 22153
703-440-1713

Fish & Wildlife Service, Fish & Wildlife Region 3
BHW Federal Building One Federal Drive
Fort Snelling MN 55111-4056
612-713-5230

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

Wildlife Preserves, Sanctuaries and Refuges
Government Records Searched in This Report

FED_LAND: Federal Lands
Source: USGS
Telephone: 703-648-5094
Federal data from Bureau of Land Management, National Park Service, Forest Service, and Fish and Wildlife Service.
- National Parks
- Forests
- Monuments
- Wildlife Sanctuaries, Preserves, Refuges
- Federal Wilderness Areas.

Date of Government Version: 12/31/2005

OH DNR Lands: OH DNR Lands
Location and spatial extent of State of Ohio lands managed by the Ohio Department of Natural Resources.
Source: Ohio Department Natural Resources.
Telephone: 614-265-6772

US Scenic River: National Wild and Scenic River System
National Wild and Scenic Rivers System
Source: USGS National Atlas and the Interagency Wild and Scenic River Coordinating Council.
Telephone: 509-546-8333

World Database on Protected Areas: World Database on Protected Areas
The World Database on Protected Areas (WDPA) is the most comprehensive global database of marine and terrestrial protected areas. It is a joint project between UN Environment Programme and the IUCN, and is managed by UNEP-WCMC, in collaboration with governments, non-governmental organizations, academia and industry.
Source: UN Environment World Conservation Monitoring Centre.
Telephone: +44 (0)1223 277314

US Critical Water Habitat: US Critical Water Habitat
When a species is proposed for listing as endangered or threatened under the Endangered Species Act, the U.S. Fish and Wildlife Service must consider whether there are areas of habitat believed to be essential the species conservation. Those areas may be proposed for designation as critical habitat. Critical habitat is a term defined and used in the Act.
Source: US Fish & Wildlife Services.
Telephone: 970-226-9468

US ACEC: Areas of Critical Environmental Concern Designated Polygons
The designated ACECs are "areas within the public lands where special management attention is required to protect and prevent irreparable damage to important historic, cultural, or scenic values, fish and wildlife resources or other natural systems of processes, or to protect life and safety from natural hazards
Source: Bureau of Land Management.
Telephone: 202-912-7352

US Proclamation Boundaries: US Proclamation Boundaries
Approved, Proclamation or Extent Boundary
Source: USGS.
Telephone: 208-301-8288

US NCED: National Conservation Easement Database
NCED shows a comprehensive picture of privately owned conservation easement lands in the U.S. The NCED will allow better strategic planning for conservation and development by merging data on land protection with biodiversity and resources, improving ecological and economic plans and investments.
Source: U.S Endowment for Forestry and Communities.
Telephone: 202-621-1647

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

US Critical Land Habitat: US Critical Land Habitat
When a species is proposed for listing as endangered or threatened under the Endangered Species Act, the U.S. Fish and Wildlife Service must consider whether there are areas of habitat believed to be essential the species conservation. Those areas may be proposed for designation as critical habitat. Critical habitat is a term defined and used in the Act.
Source: US Fish & Wildlife Services.
Telephone: 970-226-9468

Federal Contacts for Additional Information

Fish & Wildlife Service, Fish & Wildlife Region 3
BHW Federal Building One Federal Drive
Fort Snelling MN 55111-4056
612-713-5230

State Contacts for Additional Information

Dept. of Natural Resources
614-265-6305

Wild and scenic rivers

Government Records Searched in This Report

FED_LAND: Federal Lands
Source: USGS
Telephone: 703-648-5094
Federal data from Bureau of Land Management, National Park Service, Forest Service, and Fish and Wildlife Service.
- National Parks
- Forests
- Monuments
- Wildlife Sanctuaries, Preserves, Refuges
- Federal Wilderness Areas.

Date of Government Version: 12/31/2005

Federal Contacts for Additional Information

Fish & Wildlife Service, Fish & Wildlife Region 3
BHW Federal Building One Federal Drive
Fort Snelling MN 55111-4056
612-713-5230

Endangered Species

Government Records Searched in This Report

OH Endangered Species by County: Natural Heritage Database Records
State listed species by county.
Source: Department of Natural Resources.
Telephone: 614-265-6565

Federal Endangered Species by County: Threatened and Endangered Species Listing
Endangered, Threatened, Emergency Listing (Endangered), Emergency Listing (Threatened), Experimental Population (Essential), Experimental Population (Non-Essential), Similarity of Appearance (Endangered), Similarity of Appearance (Threatened).
Source: US Fish and Wildlife Services.
Telephone: 800-344-9453

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

Federal Contacts for Additional Information

Fish & Wildlife Service, Fish & Wildlife Region 3
BHW Federal Building One Federal Drive
Fort Snelling MN 55111-4056
612-713-5230

State Contacts for Additional Information

Natural Heritage Database, Dept. of Natural Resources
614-265-6453

LANDMARKS, HISTORICAL, AND ARCHEOLOGICAL SITES
Historic Places

Government Records Searched in This Report

National Register of Historic Places:

The National Register of Historic Places is the official federal list of districts, sites, buildings, structures, and objects significant in American history, architecture, archeology, engineering, and culture. These contribute to an understanding of the historical and cultural foundations of the nation.

The National Register includes:

- All prehistoric and historic units of the National Park System;
- National Historic Landmarks, which are properties recognized by the Secretary of the Interior as possessing national significance; and
- Properties significant in American, state, or local prehistory and history that have been nominated by State Historic Preservation Officers, federal agencies, and others, and have been approved for listing by the National Park Service.

Date of Government Version: 07/19/2015

OH Historic Sites: Historic Register Listing
Source: Historic Preservation Office.
Telephone: 614-297-2300

Potomac Heritage National Scenic Trail: Potomac Heritage National Scenic Trail
Source: Potomac Heritage NST Office.
Telephone: 304-535-4014

Natchez Trace National Scenic Trail: Natchez Trace National Scenic Trail
Source: Natchez Trace Parkway.
Telephone: 800-305-7417

Indian Reservations: Indian Reservations
This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.
Source: USGS.
Telephone: 202-208-3710

US Trails: US Trails
This dataset contains a baseline inventory and condition assessment of all non-motorized trails on U.S. Fish and Wildlife Service lands as part of the National Trails Inventory Program conducted by the US Dept. of Transportation, Federal Highway Administration, Federal Lands Highway Division.
Source: U.S. Fish and Wildlife.
Telephone: 703-358-2205

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

Federal Contacts for Additional Information

Park Service; Advisory Council on Historic Preservation
1849 C Street NW
Washington, DC 20240
Phone: (202) 208-6843

State Contacts for Additional Information

Ohio Historic Preservation Office
614-297-2600

Indian Religious Sites

Government Records Searched in This Report

Indian Reservations:
This map layer portrays Indian administrated lands of the United States that have any area equal to or greater than 640 acres.
Source: USGS
Phone: 888-275-8747
Date of Government Version: 12/31/2005

Federal Contacts for Additional Information

Department of the Interior- Bureau of Indian Affairs
Office of Public Affairs
1849 C Street, NW
Washington, DC 20240-0001
Office: 202-208-3711
Fax: 202-501-1516

National Association of Tribal Historic Preservation Officers
1411 K Street NW, Suite 700
Washington, DC 20005
Phone: 202-628-8476
Fax: 202-628-2241

State Contacts for Additional Information

A listing of local Tribal Leaders and Bureau of Indian Affairs Representatives can be found at:
http://www.doi.gov/bia/areas/agency.html

Scenic Trails

State Contacts for Additional Information

North County Trail Association
49 Monroe Center Suite 200B
Grand Rapids, Michigan 49503
616-454-5506

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

FLOOD PLAIN, WETLANDS AND COASTAL ZONE

Flood Plain Management

Government Records Searched in This Report

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts Special Flood Hazard Areas (1%) and 0.2% Annual Chance of Flood Hazard 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
Phone: 877-336-2627
Date of Government Version: 2015, 2003

Federal Contacts for Additional Information

Federal Emergency Management Agency
877-3362-627

State Contacts for Additional Information

Ohio Emergency Management Agency
614-889-7150

Wetlands Protection

Government Records Searched in This Report

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010, and 2015 from the U.S. Fish and Wildlife Service.
Source: U.S. Fish and Wildlife Service.
Phone: 608-238-9333
Date of Government Version: 05/28/2015

Federal Contacts for Additional Information

Fish & Wildlife Service
813-570-5412

State Contacts for Additional Information

Dept. of Natural Resources
614-265-6305

Coastal Zone Management

Government Records Searched in This Report

CAMA Management Areas
Dept. of Env., Health & Natural Resources
919-733-2293

Federal Contacts for Additional Information

Office of Ocean and Coastal Resource Management
N/ORM, SSMC4
1305 East-West Highway
Silver Spring, Maryland 20910
301-713-3102

State Contacts for Additional Information

Dept. of Natural Resources, Office of Real Estate & Land Mgmt.
614-265-6413

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

OH Coastal Zones
Dept. of Natural Resources
419-626-7980

FCC & FAA SITES MAP
For NEPA actions that come under the authority of the FCC, the FCC requires evaluation of Antenna towers and/or supporting structures that are to be equipped with high intensity white lights which are to be located in residential neighborhoods, as defined by the applicable zoning law.

Government Records Searched in This Report

Cellular
Federal Communications Commission
445 12th Street, SW
Washington, DC 20554
888-225-5322

Antenna Structure Registration
Federal Communications Commission
445 12th Street, SW
Washington, DC 20554
888-225-5322

AM Antenna
Federal Communications Commission
445 12th Street, SW
Washington, DC 20554
888-225-5322

FM Antenna
Federal Communications Commission
445 12th Street, SW
Washington, DC 20554
888-225-5322

FAA Digital Obstacle File
Federal Aviation Administration (FAA)
1305 East-West Highway, Station 5631
Silver Sprinng, MD 20910-3281
Telephone: 301-713-2817
Describes known obstacles of interest to aviation users in the US. Used by the Federal Aviation Administration (FAA) and the National Oceanic and Atmospheric Administration to manage the National Airspace System.

Airport Landing Facilities
Federal Aviation Administration
Telephone (800) 457-6656
Private and public use landing facilities.

Electric Power Transmission Line Data
PennWell Corporation
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Excessive Radio Frequency Emission
For NEPA actions that come under the authority of the FCC, Commission actions granting construction permits, licenses to transmit or renewals thereof, equipment authorizations or modifications in existing facilities, require the determination of whether the particular facility, operation or transmitter would cause human exposure to levels of radio frequency in excess of certain limits.

Federal Contacts for Additional Information

Office of Engineering and Technology
Federal Communications Commission
445 12th Street SW
Washington, DC 20554
Phone: 202-418-2470

OTHER CONTACT SOURCES

STREET AND ADDRESS INFORMATION

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APPENDIX D

ENVIRONMENTAL DATABASE INFORMATION

GRC North Plot
Taylor Road and Ransom Road
Sandusky, OH 44870

Inquiry Number: 7764628.9s
September 16, 2024

EDR Area / Corridor Report

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 (E1527 - 21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E2247 - 16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E1528 - 22) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

SUBJECT PROPERTY INFORMATION

ADDRESS

TAYLOR ROAD AND RANSOM ROAD
SANDUSKY, OH 44870

TARGET PROPERTY SEARCH RESULTS

The Target Property was identified in the following databases.

Page Numbers and Map Identifcations refer to the EDR Area/Corridor Report where detailed data on individual sites can be reviewed.

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

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Page Numbers and Map Identifcations refer to the EDR Area/Corridor 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

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

A review of the CORRACTS list, as provided by EDR, and dated 06/03/2024 has revealed that there is 1 CORRACTS site within approximately1 mile of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
NASA NEIL A ARMSTRON EPA ID:: OH3800015379	***6100 COLUMBUS AVE***	***SE 1/2 - 1 (0.913 mi.)***	***C6 / 9***	***29***

EXECUTIVE SUMMARY

Lists of state- and tribal hazardous waste facilities

OH DERR: Division of Environmental Response and Revitalization Database

A review of the OH DERR list, as provided by EDR, and dated 04/19/2024 has revealed that there is 1 OH DERR site within approximately1 mile of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
US NASA PLUM BROOK, DERR Id: 322000552 Activity: RR, VAP	***6100 COLUMBUS RDS TA***	***SE 1/2 - 1 (0.913 mi.)***	***C5 / 9***	***27***

Lists of state and tribal leaking storage tanks

OH LUST: Leaking Underground Storage Tank File

A review of the OH LUST list, as provided by EDR, and dated 08/01/2024 has revealed that there is 1 OH LUST site within approximately 0.5 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
HEMMINGER FARMS FR Status: NFA: No Further Action	1118 FOX RD	S 1/4 - 1/2 (0.364 mi.)	B4 / 8	26

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

FUDS: Formerly Used Defense Sites

A review of the FUDS list, as provided by EDR, and dated 05/13/2024 has revealed that there is 1 FUDS site within approximately1 mile of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
PLUM BROOK ORD WORKS		E 1/8 - 1/4 (0.200 mi.)	A1 / 6	24

UXO: Unexploded Ordnance Sites

A review of the UXO list, as provided by EDR, and dated 09/06/2023 has revealed that there is 1 UXO site within approximately1 mile of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
ASR COMPLETE. NOFA O		E 1/8 - 1/4 (0.200 mi.)	A2 / 6	25

EXECUTIVE SUMMARY

UST FINDER RELEASE: UST Finder Releases Database

A review of the UST FINDER RELEASE list, as provided by EDR, and dated 06/08/2023 has revealed that there is 1 UST FINDER RELEASE site within approximately 0.5 miles of the requested target property.

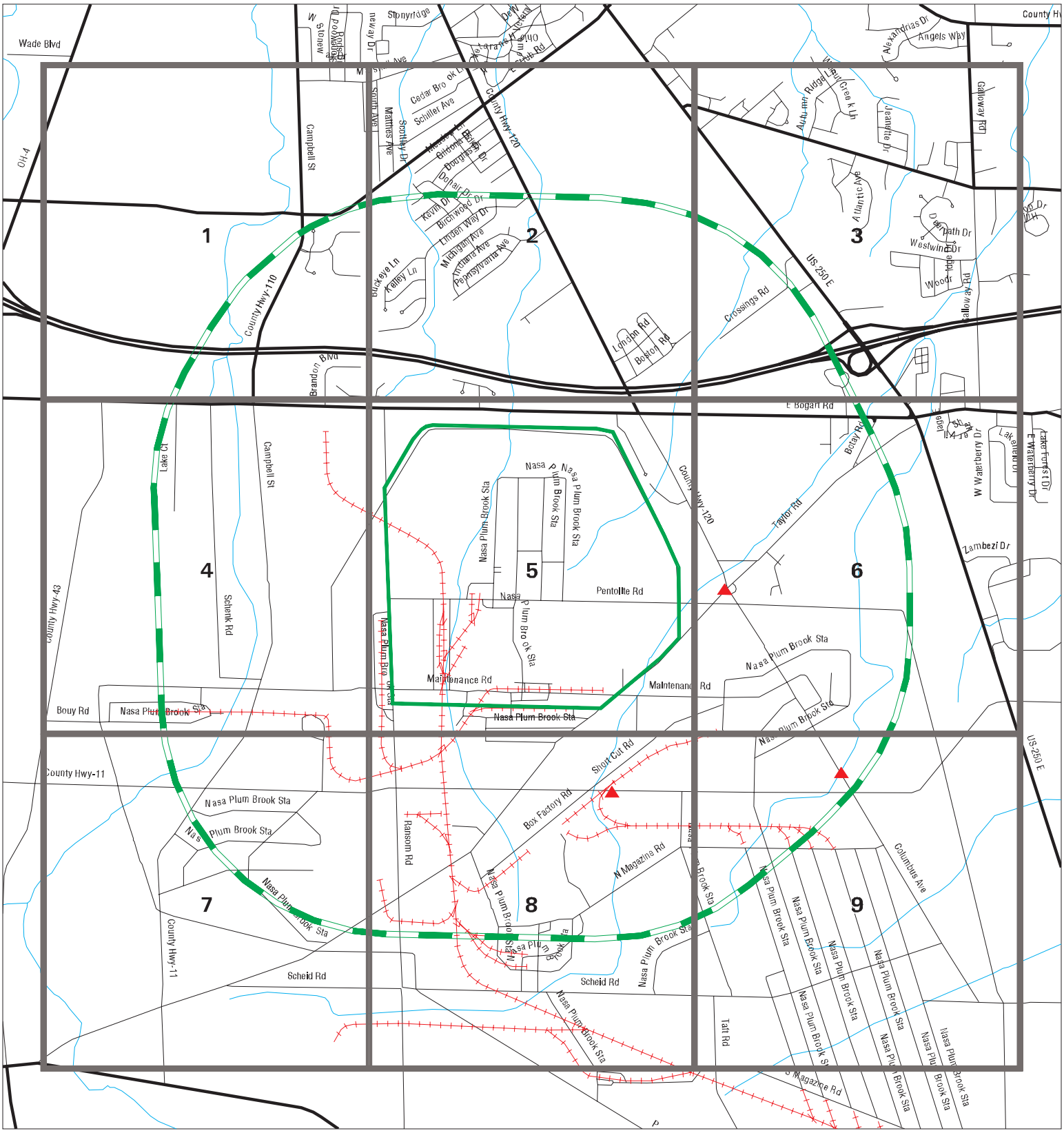
Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
HEMMINGER FARMS	1118 FOX RD	S 1/4 - 1/2 (0.364 mi.)	B3 / 8	25

MAPPED SITES SUMMARY

Target Property:
PENTOLITE ROAD AND RANSOM ROAD
SANDUSKY, OH 44870

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION		
A1 / 6	PLUM BROOK ORD WORKS		FUDS	1057	0.200	East
A2 / 6	ASR COMPLETE. NOFA O		UXO	1057	0.200	East
B3 / 8	HEMMINGER FARMS	1118 FOX RD	UST FINDER RELEASE	1924	0.364	South
B4 / 8	HEMMINGER FARMS	1118 FOX RD	OH LUST	1924	0.364	South
C5 / 9	US NASA PLUM BROOK,	6100 COLUMBUS RDS TA	OH DERR, OH VCP, OH VAPOR	4820	0.913	SE
C6 / 9	NASA NEIL A ARMSTRON	6100 COLUMBUS AVE	SEMS-ARCHIVE, CORRACTS, RCRA-TSDF, RCRA-	4820	0.913	SE

Key Map - 7764628.9s



Sites	Focus Map - Sites
Target Property	National Priority List Sites
Search Buffer	Dept. Defense Sites
Focus Map - No Sites	Indian Reservations BIA

0 1/2 1 Miles

SITE NAME: GRC North Plot	CLIENT: Terracon
ADDRESS: Pentolite Road and Ransom Road	CONTACT: Kelly Macwhinnie
CITY/STATE: Sandusky OH	INQUIRY #: 7764628.9s
ZIP: 44870	DATE: 09/16/24 2:00 PM

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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								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	1	NR	1
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
Lists of state- and tribal hazardous waste facilities								
OH SHWS	N/A		N/A	N/A	N/A	N/A	N/A	N/A
OH DERR	1.000		0	0	0	1	NR	1
Lists of state and tribal landfills and solid waste disposal facilities								
OH SWF/LF	0.500		0	0	0	NR	NR	0
Lists of state and tribal leaking storage tanks								
OH LUST	0.500		0	0	1	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
OH LAST	TP		NR	NR	NR	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
OH UNREG LTANKS	0.500		0	0	0	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
OH UST	0.250		0	0	NR	NR	NR	0
OH AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
OH HIST ENG CONTROLS	0.500		0	0	0	NR	NR	0
OH HIST INST CONTROLS	0.500		0	0	0	NR	NR	0
OH ENG CONTROLS	0.500		0	0	0	NR	NR	0
OH INST CONTROL	0.500		0	0	0	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
OH VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
OH BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
OH SWRCY	0.500		0	0	0	NR	NR	0
OH HIST LF	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
OH CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
OH ARCHIVE UST	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	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
OH SPILLS	TP		NR	NR	NR	NR	NR	0
OH SPILLS 90	TP		NR	NR	NR	NR	NR	0
OH SPILLS 80	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	1	0	0	NR	1
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
MINES MRDS	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	1	0	0	NR	1
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS TRIS	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS PROJECT	0.250		0	0	NR	NR	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
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0
PFAS ECHO FIRE TRAIN	0.250		0	0	NR	NR	NR	0
PFAS PT 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
BIOSOLIDS	TP		NR	NR	NR	NR	NR	0
UST FINDER	0.250		0	0	NR	NR	NR	0
UST FINDER RELEASE	0.500		0	0	1	NR	NR	1
E MANIFEST	0.250		0	0	NR	NR	NR	0
OH PFAS	0.250		0	0	NR	NR	NR	0
OH AIRS	TP		NR	NR	NR	NR	NR	0
OH ASBESTOS	TP		NR	NR	NR	NR	NR	0
OH COAL ASH	0.500		0	0	0	NR	NR	0
OH CRO	TP		NR	NR	NR	NR	NR	0
OH DRYCLEANERS	0.250		0	0	NR	NR	NR	0
OH Financial Assurance	TP		NR	NR	NR	NR	NR	0
OH HIST USD	0.500		0	0	0	NR	NR	0
OH LEAD	TP		NR	NR	NR	NR	NR	0
NY MANIFEST	0.250		0	0	NR	NR	NR	0
OH NPDES	TP		NR	NR	NR	NR	NR	0
OH VAPOR	0.500		0	0	0	NR	NR	0
OH TOWNGAS	1.000		0	0	0	0	NR	0
OH UIC	TP		NR	NR	NR	NR	NR	0
OH USD	0.500		0	0	0	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
OH RGA LF	TP		NR	NR	NR	NR	NR	0
OH RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	0	2	2	2	0	6

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.

Focus Map - 1 - 7764628.9s

Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: GRC North Plot ADDRESS: Pentolite Road and Ransom Road CITY/STATE: Sandusky OH ZIP: 44870	CLIENT: Terracon CONTACT: Kelly Macwhinnie INQUIRY #: 7764628.9s DATE: 09/16/24

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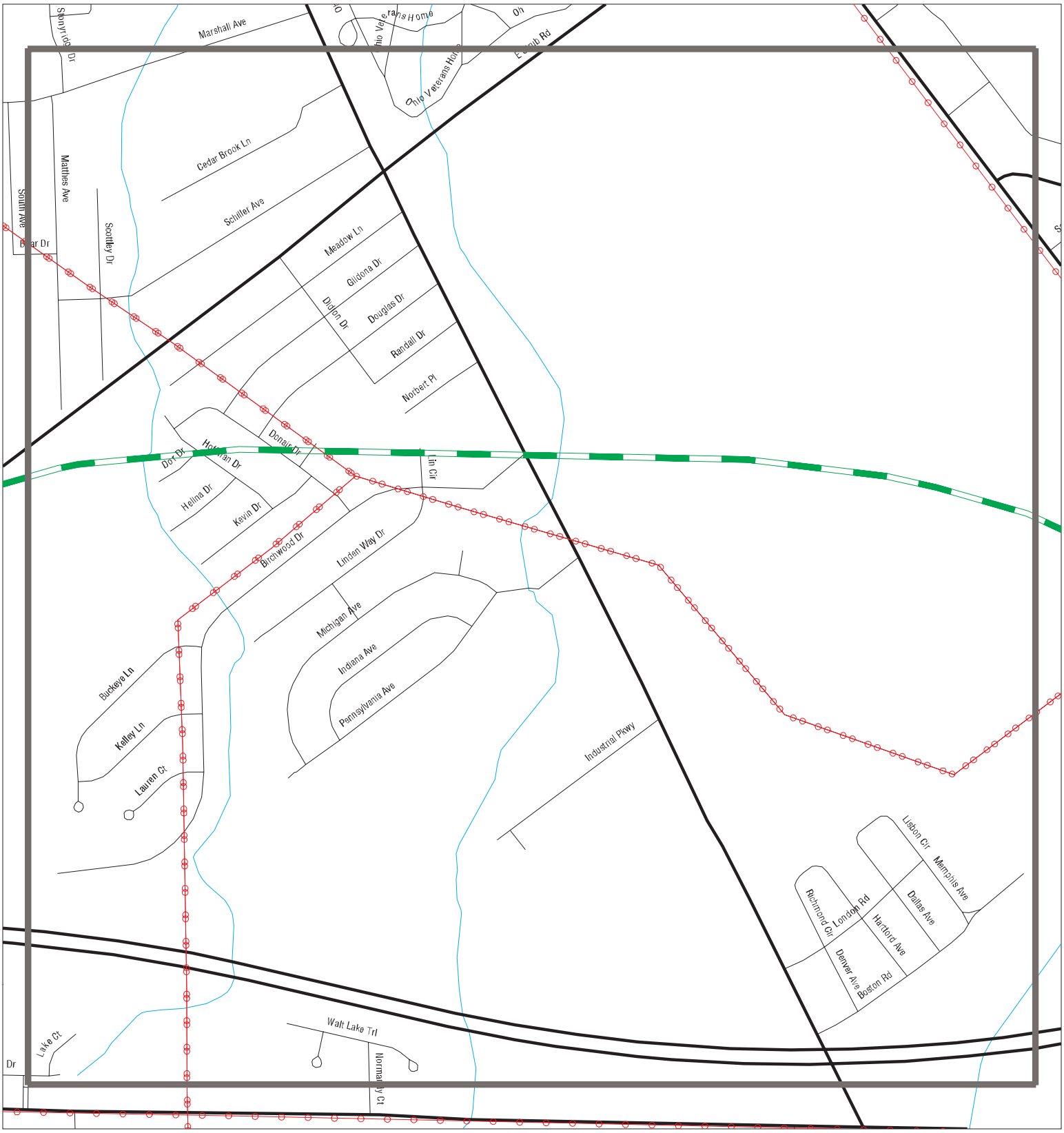
MAPPED SITES SUMMARY - FOCUS MAP 1

Target Property:
PENTOLITE ROAD AND RANSOM ROAD
SANDUSKY, OH 44870

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 2 - 7764628.9s



SITE NAME: GRC North Plot ADDRESS: Pentolite Road and Ransom Road CITY/STATE: Sandusky OH ZIP: 44870	CLIENT: Terracon CONTACT: Kelly Macwhinnie INQUIRY #: 7764628.9s DATE: 09/16/24

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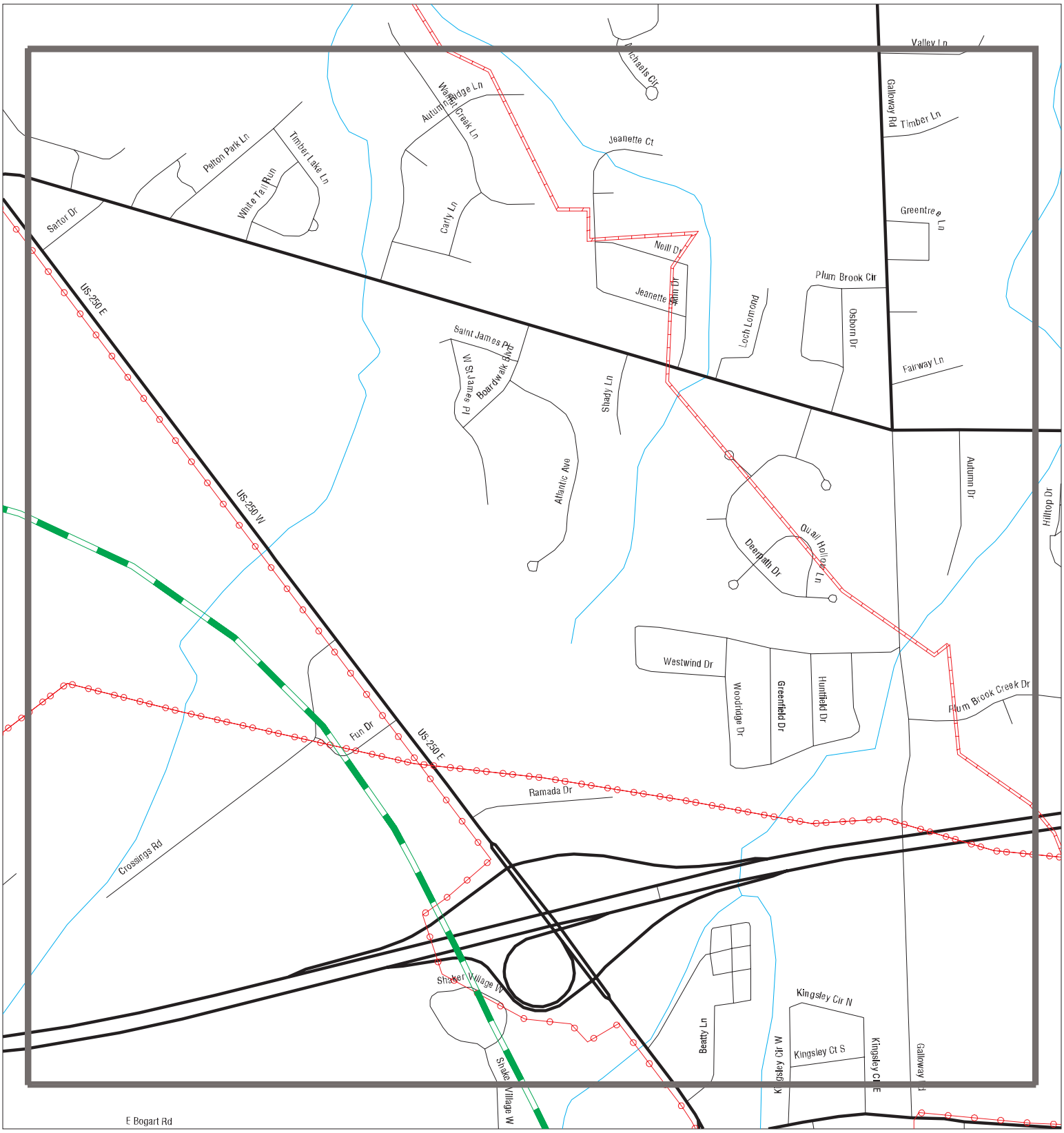
MAPPED SITES SUMMARY - FOCUS MAP 2

Target Property:
PENTOLITE ROAD AND RANSOM ROAD
SANDUSKY, OH 44870

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 3 - 7764628.9s



- Sites
- Target Property
- Search Buffer
- Focus Map - No Sites
- Focus Map - Sites
- Power Line
- Pipe Line
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: GRC North Plot	CLIENT: Terracon
ADDRESS: Pentolite Road and Ransom Road	CONTACT: Kelly Macwhinnie
CITY/STATE: Sandusky OH	INQUIRY #: 7764628.9s
ZIP: 44870	DATE: 09/16/24

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MAPPED SITES SUMMARY - FOCUS MAP 3

Target Property:
PENTOLITE ROAD AND RANSOM ROAD
SANDUSKY, OH 44870

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 4 - 7764628.9s

Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: GRC North Plot	CLIENT: Terracon
ADDRESS: Pentolite Road and Ransom Road	CONTACT: Kelly Macwhinnie
CITY/STATE: Sandusky OH	INQUIRY #: 7764628.9s
ZIP: 44870	DATE: 09/16/24

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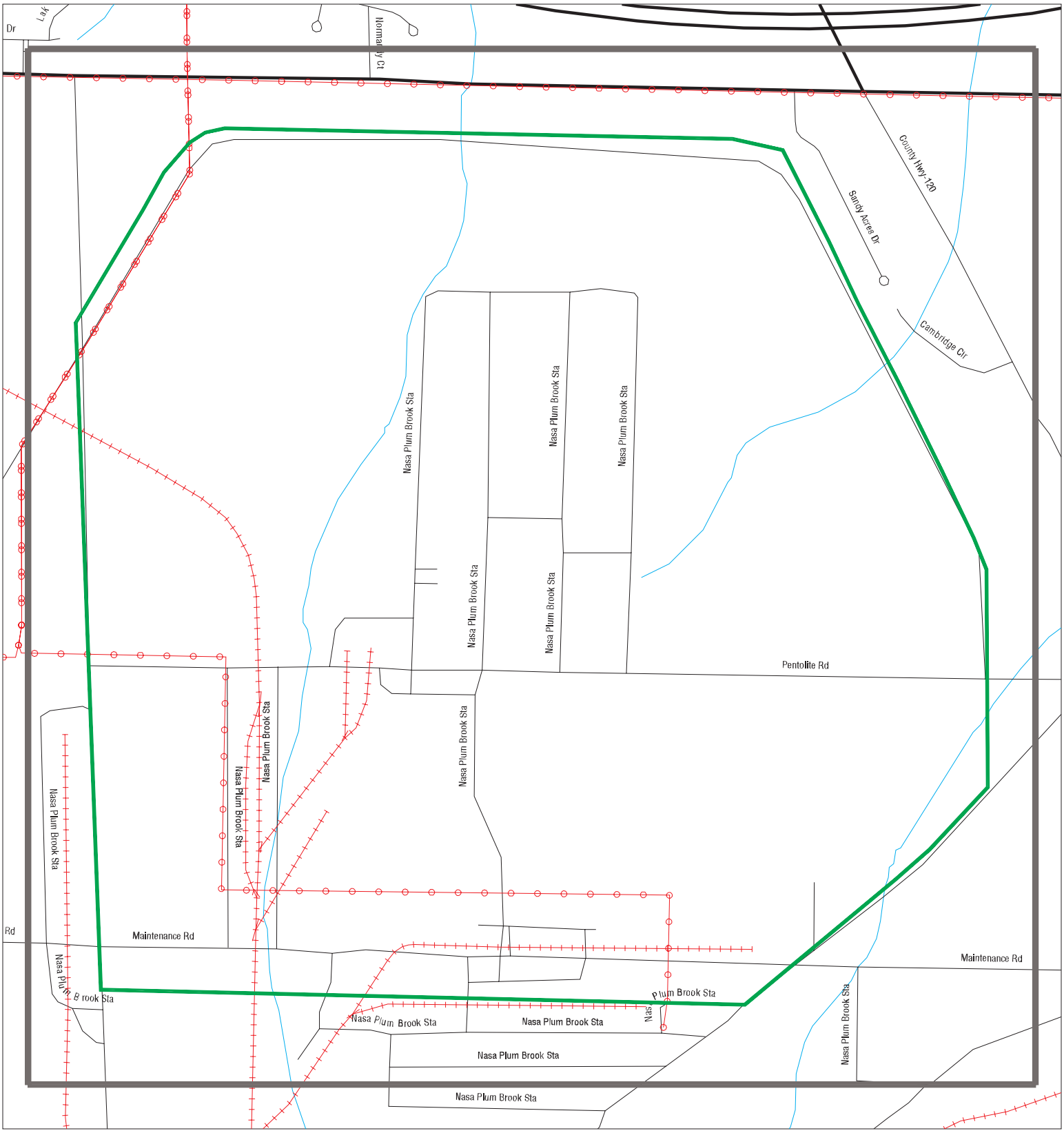
MAPPED SITES SUMMARY - FOCUS MAP 4

Target Property:
PENTOLITE ROAD AND RANSOM ROAD
SANDUSKY, OH 44870

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 5 - 7764628.9s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: GRC North Plot	CLIENT: Terracon
ADDRESS: Pentolite Road and Ransom Road	CONTACT: Kelly Macwhinnie
CITY/STATE: Sandusky OH	INQUIRY #: 7764628.9s
ZIP: 44870	DATE: 09/16/24

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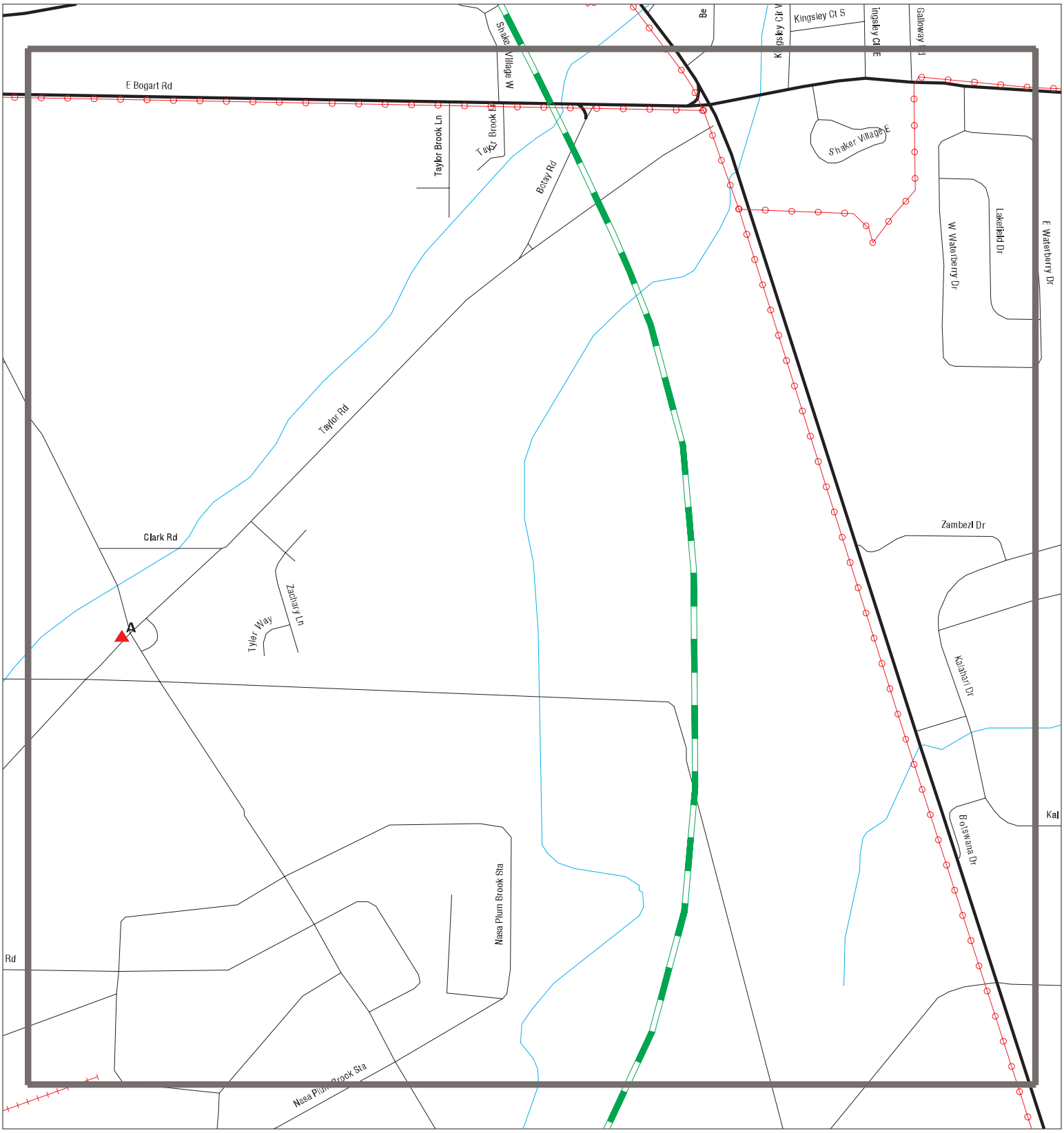
MAPPED SITES SUMMARY - FOCUS MAP 5

Target Property:
PENTOLITE ROAD AND RANSOM ROAD
SANDUSKY, OH 44870

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 6 - 7764628.9s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: GRC North Plot	CLIENT: Terracon
ADDRESS: Pentolite Road and Ransom Road	CONTACT: Kelly Macwhinnie
CITY/STATE: Sandusky OH	INQUIRY #: 7764628.9s
ZIP: 44870	DATE: 09/16/24

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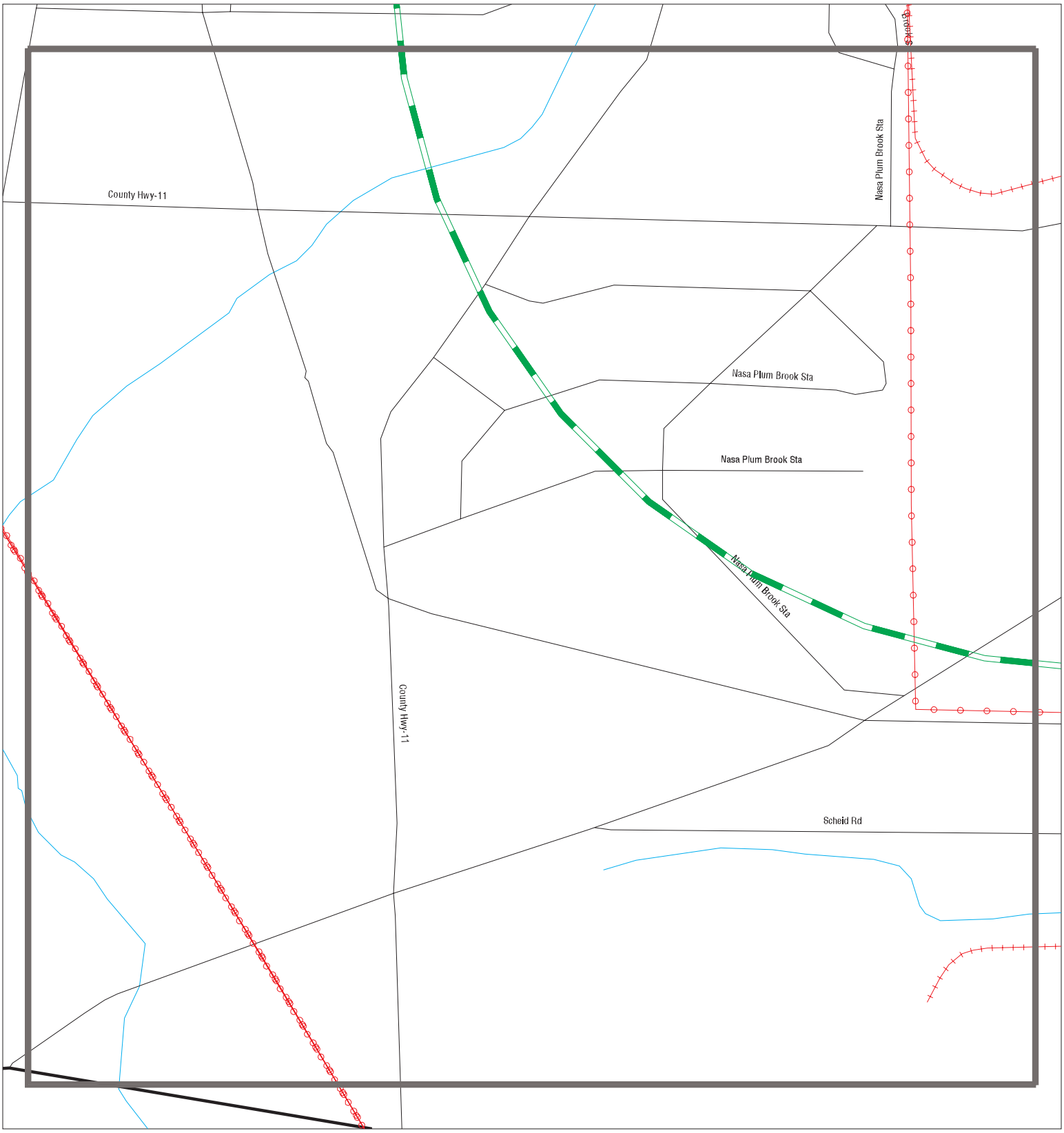
MAPPED SITES SUMMARY - FOCUS MAP 6

Target Property:
PENTOLITE ROAD AND RANSOM ROAD
SANDUSKY, OH 44870

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
A1 / 6	PLUM BROOK ORD WORKS		FUDS	1057 0.200 East
A2 / 6	ASR COMPLETE. NOFA O		UXO	1057 0.200 East

Focus Map - 7 - 7764628.9s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: GRC North Plot ADDRESS: Pentolite Road and Ransom Road CITY/STATE: Sandusky OH ZIP: 44870	CLIENT: Terracon CONTACT: Kelly Macwhinnie INQUIRY #: 7764628.9s DATE: 09/16/24

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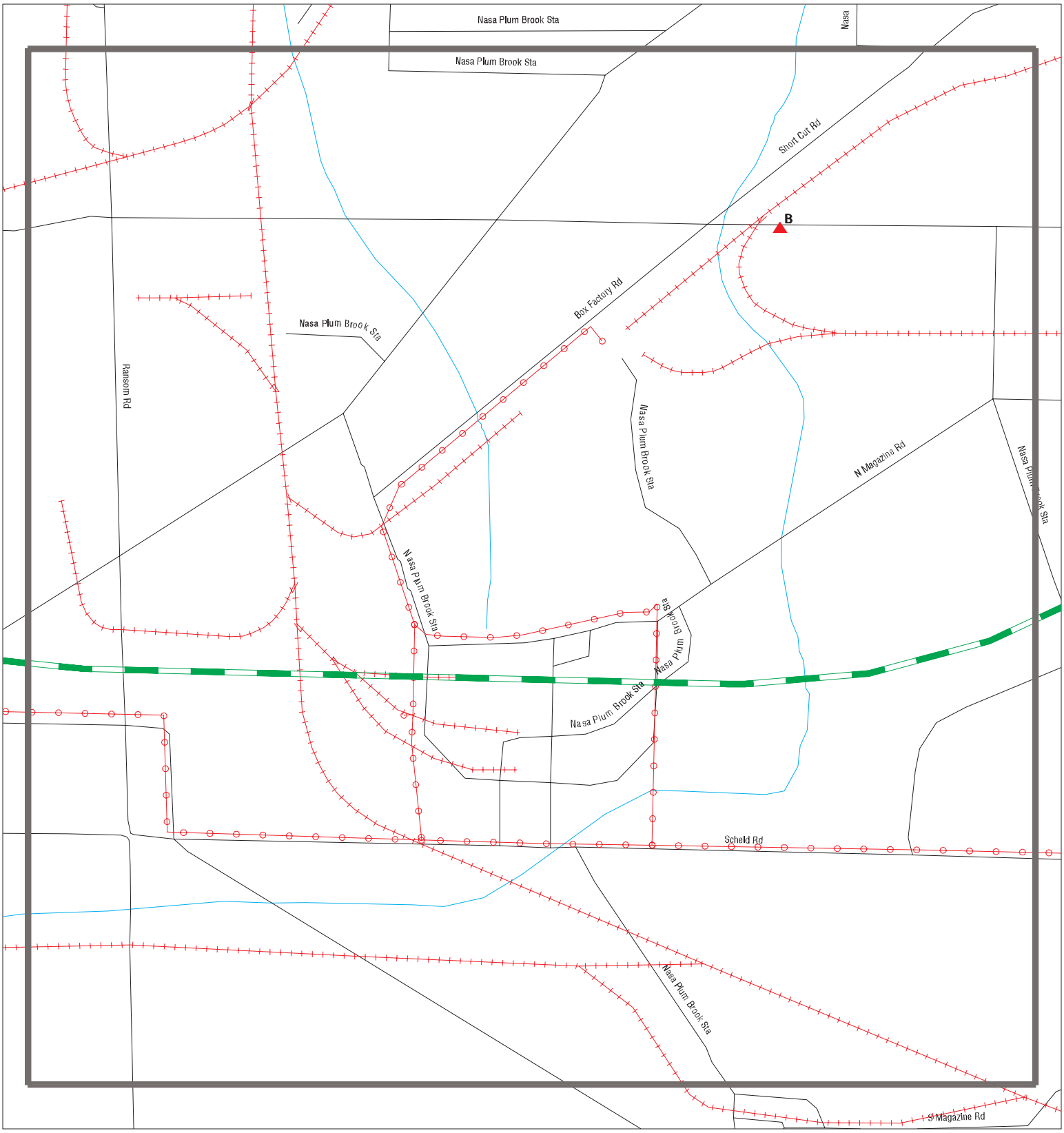
MAPPED SITES SUMMARY - FOCUS MAP 7

Target Property:
PENTOLITE ROAD AND RANSOM ROAD
SANDUSKY, OH 44870

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 8 - 7764628.9s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: GRC North Plot	CLIENT: Terracon
ADDRESS: Pentolite Road and Ransom Road	CONTACT: Kelly Macwhinnie
CITY/STATE: Sandusky OH	INQUIRY #: 7764628.9s
ZIP: 44870	DATE: 09/16/24

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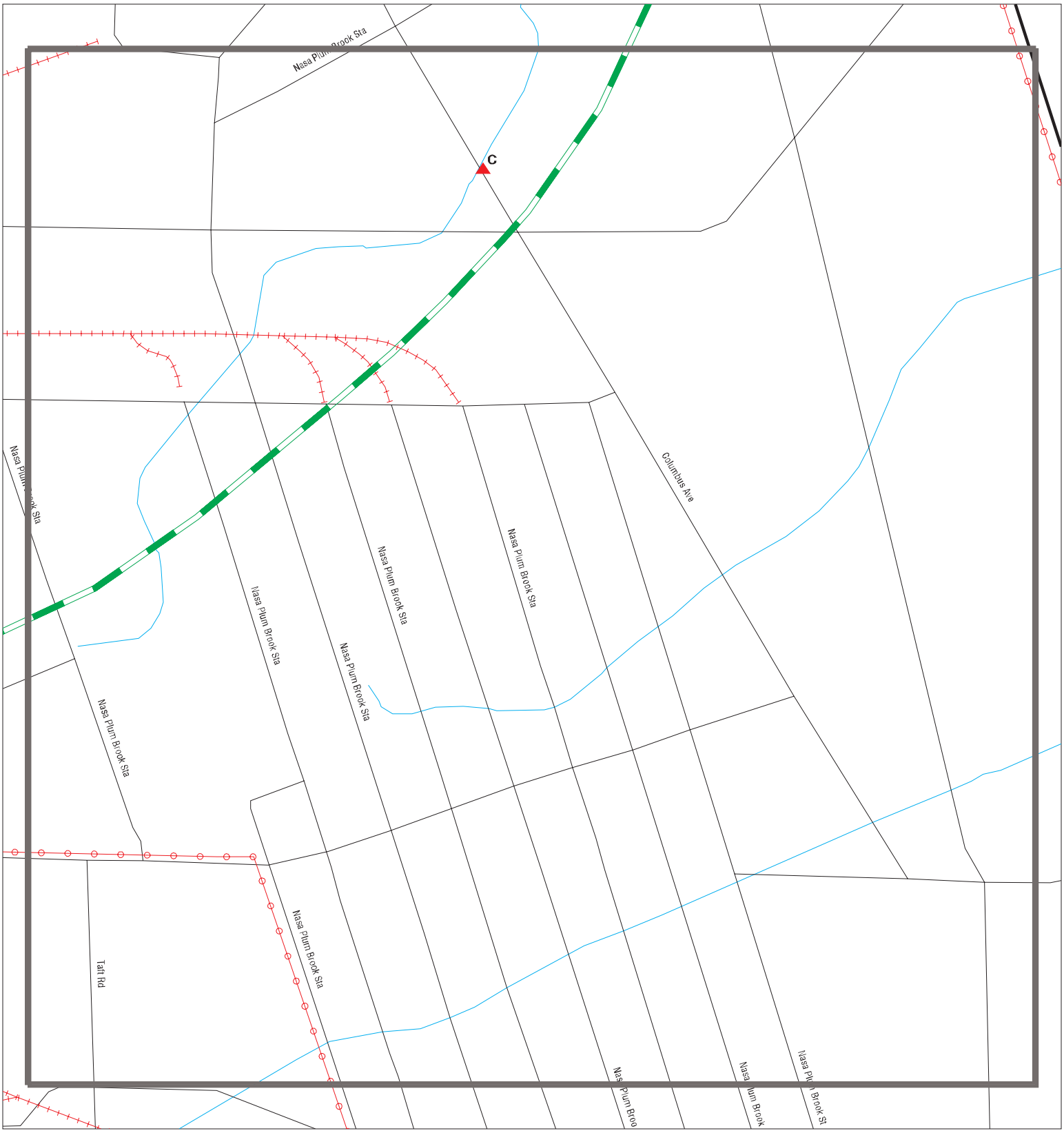
MAPPED SITES SUMMARY - FOCUS MAP 8

Target Property:
PENTOLITE ROAD AND RANSOM ROAD
SANDUSKY, OH 44870

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION		
B3 / 8	HEMMINGER FARMS	1118 FOX RD	UST FINDER RELEASE	1924	0.364	South
B4 / 8	HEMMINGER FARMS	1118 FOX RD	OH LUST	1924	0.364	South

Focus Map - 9 - 7764628.9s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: GRC North Plot	CLIENT: Terracon
ADDRESS: Pentolite Road and Ransom Road	CONTACT: Kelly Macwhinnie
CITY/STATE: Sandusky OH	INQUIRY #: 7764628.9s
ZIP: 44870	DATE: 09/16/24

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MAPPED SITES SUMMARY - FOCUS MAP 9

Target Property:
PENTOLITE ROAD AND RANSOM ROAD
SANDUSKY, OH 44870

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION		
C5 / 9	US NASA PLUM BROOK,	6100 COLUMBUS RDS TA	OH DERR, OH VCP, OH VAPOR	4820	0.913	SE
C6 / 9	NASA NEIL A ARMSTRON	6100 COLUMBUS AVE	SEMS-ARCHIVE, CORRACTS, RCRA-TSDF, RCRA-	4820	0.913	SE

A1 East 1/8-1/4 0.200 mi. 1057 ft. | **PLUM BROOK ORD WORKS** | **FUDS** | **1007211518** | **N/A**

SANDUSKY, OH

Site 1 of 2 in cluster A

Actual: 630 ft.

Focus Map: 6

FUDS:

EPA Region:	05
Installation ID:	OH59799F364100
Congressional District Number:	9
Name:	PLUM BROOK ORD WORKS
FUDS Number:	G05OH0018
City:	SANDUSKY
State:	OH
County:	ERIE
Object ID:	8127
USACE Division:	LRD
USACE District:	Louisville District (LRL)
Status:	Properties with projects
Current Owner:	FED: FEDERAL NASA - Lewis Research Center occupies 3,685 acres of the former ordnance works. Current research includes effects of radiation on materials, components for nuclear propulsion systems, high energy propulsion systems and nuclear rocket component research. GSA owns other portions and will not release until additional studies are conducted on red water and other potential contaminated areas. U.S. Army Reserve Center occupies a portion. Wensink Seed Farms owns 5.63 acres. Edward Schenk own; FEDAG: In 1963 the Former PBOW property was transferred by GSA for the Army to NASA. NASA has custody and accountability for the property and uses the Former PBOW as the Glenn Research Faciilty at Plum Brook Station., In 1963 the property was transferred by GSA from the Army to NASA. NASA has custody and accountability of the property. NASA uses the Former Plum Brook Ordnance Works property as the Glenn Research Facility at Plum Brook Station., In 1963 the property was transferred by GSA from the Army to NASA. NASA has custody and accountability of the property. NASA uses the Former Plum Brook Ordnance Works property as the Glenn Research Facility at Plum Brook Station ; OTHER: OTHER NASA - Lewis Research Center occupies 3,685 acres of the former ordnance works. Current research includes effects of radiation on materials, components for nuclear propulsion systems, high energy propulsion systems and nuclear rocket component research. GSA owns other portions and will not release until additional studies are conducted on red water and other potential contaminated areas. U.S. Army Reserve Center occupies a portion. Wensink Seed Farms owns 5.63 acres. Edward Schenk own
EMS Map Link:	https://fudsportal.usace.army.mil/ems/inventory/map?id=57979
Eligibility:	Eligible
Has Projects:	Yes
NPL Status:	Not reported
Project Required:	Yes
Feature Description:	The property was acquired in 1941 for the construction and operation of the Plum Brook Ordnance Works. TNT, DNT, and pentolites were produced until 1945. The site was re-designated Plum Brook Depot and it was used until 1961 for ammunition storage for the Erie Army Depot. The site was excessed in several phases. The U.S. currently has 16 active removal projects at the site.
Latitude:	41.385
Longitude:	-82.6675

FUDS Detail as of Jan 2015:

Fiscal Year:	2013

PLUM BROOK ORD WORKS (Continued) **1007211518**

Federal Facility ID:	OH9799F3641
RAB:	Not reported
NPL Status:	Not Listed
Description:	The Plum Brook Ordnance Works site is located 4.7 miles south of Sandusky, Ohio, and 59 miles west of Cleveland, Ohio. The site comprises 9,071 acres. TNT and DNT contamination is present in the soil. Currently, NASA occupies approximately 3,685 acres for scientific research purposes. Military munitions were produced or demilitarized at this property and therefore may present an explosive hazard.
History:	The property was acquired in 1941 for the construction and operation of the Plum Brook Ordnance Works. TNT, DNT, and pentolites were produced until 1945. The site was re-designated Plum Brook Depot and it was used until 1961 for ammunition storage for the Erie Army Depot. The site was excessed in several phases. The U.S. currently has 16 active removal projects at the site.
CTC:	93417.199999999997
Current Program:	Not reported
Future Program:	Not reported
Institutional ID:	57979

A2 **ASR COMPLETE. NOFA OEW** **UXO** **1024715321**
East **N/A**
1/8-1/4 **SANDUSKY, OH**
0.200 mi.
1057 ft. **Site 2 of 2 in cluster A**

Actual:
630 ft.

Focus Map:
6

UXO:

DoD Component:	FUDS
Installation Name:	PLUM BROOK ORD WORKS
Name:	ASR COMPLETE. NOFA OEW
Address:	Not reported
Address 2:	Not reported
City,State,Zip:	SANDUSKY, OH
Site ID:	06OEW
Site Type:	Unexploded Munitions and Ordnance Area
Latitude:	Not reported
Longitude:	Not reported

B3 **HEMMINGER FARMS** **UST FINDER RELEASE** **1029081660**
South **1118 FOX RD** **N/A**
1/4-1/2 **SANDUSKY, OH 0**
0.364 mi.
1924 ft. **Site 1 of 2 in cluster B**

Actual:
647 ft.

Focus Map:
8

UST FINDER RELEASE:

Object ID:	319155
Facility ID:	OH22009969
Lust ID:	OH22009969-N00001
Name:	HEMMINGER FARMS
Address:	1118 FOX RD
City,State,Zip:	SANDUSKY, OH 0
Address Match Type:	Not reported
Reported Date:	Not reported
Status:	No Further Action

HEMMINGER FARMS (Continued) **1029081660**

Substance:	Not reported
Population within 1500ft:	5
Domestic Wells within 1500ft:	0
Land Use:	Non-Developed
Within SPA:	No
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	No
WHPA PWS Facility ID:	Not reported
WHPA Water Type:	Not reported
WHPA Facility Type:	Not reported
WHPA HUC12:	Not reported
Within 100yr Floodplain:	No
Tribe:	Not reported
EPA Region:	5
NFA Letter 1:	Not reported
NFA Letter 2:	Not reported
NFA Letter 3:	Not reported
NFA Letter 4:	Not reported
Closed With Residual Contaminate:	Not reported
Coordinate Source:	State
X Coord:	-82.67437
Y Coord:	41.37222
Latitude:	41.3722199999999
Longitude:	-82.6743699999999

B4 **HEMMINGER FARMS** **OH LUST** **U004092928**
South **1118 FOX RD** **N/A**
1/4-1/2 **SANDUSKY, OH 44870**
0.364 mi.
1924 ft. **Site 2 of 2 in cluster B**

Actual:
647 ft.

Focus Map:
8

LUST:

Name:	HEMMINGER FARMS
Address:	1118 FOX RD
City,State,Zip:	SANDUSKY, OH 44870
Release Number:	22009969 - N00001
Release Date:	Not reported
LTF Status:	1 SUS/CON from regulated UST
FR Status:	**NFA: No Further Action**
Priority:	2
Review Date:	06/20/2000
Priority Decode:	SUS/CON from non-regulated UST
Class1 Decode:	A viable RP have been identified
Latitude:	41.372216
Longitude:	-82.674374
Class:	Viable Responsible Party has been identified
Incident Number:	220219400.0
Last Update:	Not reported
Last Update Date:	04/28/2012
Last Update Updated:	Not reported
Sub Status:	Not reported
Rules:	Not reported
Coordinator:	Jason Anthony
Rating:	Not reported

C5 SE 1/2-1 0.913 mi. 4820 ft. | **US NASA PLUM BROOK, SANDUSKY**
6100 COLUMBUS RDS TAYLOR & COLUMBUS RDS
SANDUSKY, OH 44870

Site 1 of 2 in cluster C

OH DERR **S112150809**
OH VCP **N/A**
OH VAPOR

Actual: 644 ft.

Focus Map: 9

DERR:

Name:	US NASA PLUM BROOK, SANDUSKY
Address:	6100 COLUMBUS RDS TAYLOR & COLUMBUS RDS
City,State,Zip:	SANDUSKY, OH 44870
DERR ID:	322000552
District:	NWDO
Alias:	Not reported
Lat/Long:	41.365935 -82.672725
CERCLIS ID:	OH3800015379
Program:	**Remedial Response Voluntary Action Program**
Decode for Activity:	Remedial Response, Voluntary Action Program

OH VCP:

Name:	US NASA PLUM BROOK, SANDUSKY
Address:	6100 COLUMBUS RDS
Address 2:	Taylor & Columbus Rds
City,State,Zip:	SANDUSKY, OH 44870
OH EPA District:	NWDO
Alias Name:	Not reported
Latitude:	41.36593
Longitude:	-82.67272
Old Program Id:	Not reported
Project Type:	VAP Technical Assistance
DERR ID:	322000552

VAPOR:

Name:	US NASA PLUM BROOK, SANDUSKY
Address:	6100 COLUMBUS RDS
City,State,Zip:	SANDUSKY, OH
Parent ID:	322000552
Project ID:	322000552003
Project Name:	US NASA Plum Brook, Sandusky
Program:	RR
District:	NWDO
Site Coordinator:	Not reported
Project Type:	RR AGO Enforcement Actions
Site Screen Completed?:	Not reported
Follow Up Required?:	Not reported
Follow Up Completed?:	Not reported
Disclaimer:	http://epa.ohio.gov/Portals/30/TCE_Disclaimer.pdf

Name:	US NASA PLUM BROOK, SANDUSKY
Address:	6100 COLUMBUS RDS
City,State,Zip:	SANDUSKY, OH
Parent ID:	322000552
Project ID:	322000552009
Project Name:	US NASA Plum Brook, Sandusky
Program:	RR
District:	NWDO
Site Coordinator:	Not reported
Project Type:	Remedial Investigation
Site Screen Completed?:	Not reported

US NASA PLUM BROOK, SANDUSKY (Continued) **S112150809**

Follow Up Required?:	Not reported
Follow Up Completed?:	Not reported
Disclaimer:	http://epa.ohio.gov/Portals/30/TCE_Disclaimer.pdf

Name:	US NASA PLUM BROOK FAC-WIDE GW MON
Address:	6100 COLUMBUS RDS
City,State,Zip:	SANDUSKY, OH
Parent ID:	322000552
Project ID:	322000552012
Project Name:	US NASA Plum Brook, Sandusky
Program:	RR
District:	NWDO
Site Coordinator:	Not reported
Project Type:	Remedial Investigation
Site Screen Completed?:	Not reported
Follow Up Required?:	Not reported
Follow Up Completed?:	Not reported
Disclaimer:	http://epa.ohio.gov/Portals/30/TCE_Disclaimer.pdf

Name:	US NASA PLUM BROOK GARAGE MAINTENANCE AREA
Address:	6100 COLUMBUS RDS
City,State,Zip:	SANDUSKY, OH
Parent ID:	322000552
Project ID:	322000552029
Project Name:	US NASA Plum Brook, Sandusky
Program:	RR
District:	NWDO
Site Coordinator:	Not reported
Project Type:	Remedial Investigation
Site Screen Completed?:	Not reported
Follow Up Required?:	Not reported
Follow Up Completed?:	Not reported
Disclaimer:	http://epa.ohio.gov/Portals/30/TCE_Disclaimer.pdf

Name:	US NASA PLUM BROOK GARAGE MAINTENANCE AREA
Address:	6100 COLUMBUS RDS
City,State,Zip:	SANDUSKY, OH
Parent ID:	322000552
Project ID:	322000552033
Project Name:	US NASA Plum Brook, Sandusky
Program:	RCRA
District:	NWDO
Site Coordinator:	Not reported
Project Type:	Closure Plan Review/Mod
Site Screen Completed?:	Not reported
Follow Up Required?:	Not reported
Follow Up Completed?:	Not reported
Disclaimer:	http://epa.ohio.gov/Portals/30/TCE_Disclaimer.pdf

Name:	NASA PLUM BROOK, SANDUSKY
Address:	6100 COLUMBUS RDS
City,State,Zip:	SANDUSKY, OH
Parent ID:	322000552
Project ID:	322000552038
Project Name:	US NASA Plum Brook, Sandusky
Program:	RR
District:	NWDO

US NASA PLUM BROOK, SANDUSKY (Continued) **S112150809**

Site Coordinator:	Not reported
Project Type:	Remedial Design/Remedial Action
Site Screen Completed?:	Not reported
Follow Up Required?:	Not reported
Follow Up Completed?:	Not reported
Disclaimer:	http://epa.ohio.gov/Portals/30/TCE_Disclaimer.pdf

Name:	US NASA PLUM BROOK GARAGE MAINTENANCE AREA
Address:	6100 COLUMBUS RDS
City,State,Zip:	SANDUSKY, OH
Parent ID:	322000552
Project ID:	322000552041
Project Name:	US NASA Plum Brook, Sandusky
Program:	RR
District:	NWDO
Site Coordinator:	Not reported
Project Type:	Feasibility Study
Site Screen Completed?:	Not reported
Follow Up Required?:	Not reported
Follow Up Completed?:	Not reported
Disclaimer:	http://epa.ohio.gov/Portals/30/TCE_Disclaimer.pdf

---

C6 **NASA NEIL A ARMSTRONG TEST FACILITY** **SEMS-ARCHIVE** **1015735673**
SE **6100 COLUMBUS AVE** **CORRACTS** **OH3800015379**
1/2-1 **SANDUSKY, OH 44870** **RCRA-TSDF**
0.913 mi. **RCRA-LQG**
4820 ft. **Site 2 of 2 in cluster C** **2020 COR ACTION**
PADS
Actual: **ICIS**
644 ft. **FINDS**
ECHO
Focus Map: **DOCKET HWC**
9 **E MANIFEST**
NY MANIFEST

SEMS Archive:

Site ID:	0504929
EPA ID:	OH3800015379
Name:	NASA PLUM BROOK
Address:	TAYLOR & COLUMBUS RDS
Address 2:	Not reported
City,State,Zip:	SANDUSKY, OH 44870
Cong District:	05
FIPS Code:	39043
FF:	Y
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region:	05
Site ID:	0504929
EPA ID:	OH3800015379
Site Name:	NASA PLUM BROOK
NPL:	N
FF:	Y
OU:	00
Action Code:	PA
Action Name:	PA

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

SEQ:	1
Start Date:	Not reported
Finish Date:	1984-08-01 05:00:00
Qual:	L
Current Action Lead:	Fed Fac
Region:	05
Site ID:	0504929
EPA ID:	OH3800015379
Site Name:	NASA PLUM BROOK
NPL:	N
FF:	Y
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1983-08-01 04:00:00
Finish Date:	1983-08-01 04:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	05
Site ID:	0504929
EPA ID:	OH3800015379
Site Name:	NASA PLUM BROOK
NPL:	N
FF:	Y
OU:	00
Action Code:	SI
Action Name:	SI
SEQ:	1
Start Date:	1994-09-30 04:00:00
Finish Date:	1994-09-30 04:00:00
Qual:	N
Current Action Lead:	Fed Fac
Region:	05
Site ID:	0504929
EPA ID:	OH3800015379
Site Name:	NASA PLUM BROOK
NPL:	N
FF:	Y
OU:	00
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	1994-09-30 04:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse

CORRACTS:

Name:	NASA NEIL A ARMSTRONG TEST FACILITY
Address:	6100 COLUMBUS AVE
Address 2:	Not reported
EPA ID:	OH3800015379

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Area Name: ENTIRE FACILITY
Corrective Action: FEDERAL PERMIT LEAD SITE
Actual Date: 20010723
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: NASA NEIL A ARMSTRONG TEST FACILITY
Address: 6100 COLUMBUS AVE
Address 2: Not reported
EPA ID: OH3800015379
Area Name: ENTIRE FACILITY
Corrective Action: RFA COMPLETED
Actual Date: 19980824
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: NASA NEIL A ARMSTRONG TEST FACILITY
Address: 6100 COLUMBUS AVE
Address 2: Not reported
EPA ID: OH3800015379
Area Name: ENTIRE FACILITY
Corrective Action: CA PRIORITIZATION-HIGH CA PRIORITY
Actual Date: 19980916
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: NASA NEIL A ARMSTRONG TEST FACILITY
Address: 6100 COLUMBUS AVE
Address 2: Not reported
EPA ID: OH3800015379
Area Name: ENTIRE FACILITY
Corrective Action: HUMAN EXPOSURES CONTROLLED DETERMINATION-MORE INFORMATION NEEDED
Actual Date: 19990429
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: NASA NEIL A ARMSTRONG TEST FACILITY
Address: 6100 COLUMBUS AVE
Address 2: Not reported
EPA ID: OH3800015379
Area Name: ENTIRE FACILITY
Corrective Action: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Actual Date: 20030929
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Name:	NASA NEIL A ARMSTRONG TEST FACILITY
Address:	6100 COLUMBUS AVE
Address 2:	Not reported
EPA ID:	OH3800015379
Area Name:	ENTIRE FACILITY
Corrective Action:	RELEASE TO GW CONTROLLED DETERMINATION-MORE INFORMATION NEEDED
Actual Date:	19990429
Air Release Indicator:	Not reported
Groundwater Release Indicator:	Not reported
Soil Release Indicator:	Not reported
Surface Water Release Indicator:	Not reported

RCRA TSDF:

Treatment Storage and Disposal Type:	Storage
Full Enforcement Universe:	Not reported
Corrective Action Workload Universe:	No
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Storage
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
Operating TSDF Universe:	Not reported
Commercial TSD Indicator:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	Yes

Biennial: List of Years

Year: 2021

Click Here for Biennial Reporting System Data:
Year: 2019

Click Here for Biennial Reporting System Data:
Year: 2017

Click Here for Biennial Reporting System Data:
Year: 2015

Click Here for Biennial Reporting System Data:
Year: 2013

Click Here for Biennial Reporting System Data:
Year: 2011

Click Here for Biennial Reporting System Data:
Year: 2009

Click Here for Biennial Reporting System Data:
Year: 2007

Click Here for Biennial Reporting System Data:
Year: 2005

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Click Here for Biennial Reporting System Data:
Year: 2003

Click Here for Biennial Reporting System Data:
Year: 2001

Click Here for Biennial Reporting System Data:

RCRA Listings:

Date Form Received by Agency:	20220224
Handler Name:	Nasa Neil A Armstrong Test Facility
Handler Address:	6100 Columbus Ave
Handler City,State,Zip:	SANDUSKY, OH 44870
EPA ID:	OH3800015379
Contact Name:	MICHAEL J HOVANIC
Contact Address:	6100 COLUMBUS AVE
Contact City,State,Zip:	SANDUSKY, OH 44870
Contact Telephone:	216-433-9749
Contact Fax:	Not reported
Contact Email:	MICHAEL.J.HOVANIC@NASA.GOV
Contact Title:	WASTE MANAGEMENT LEAD
EPA Region:	05
Land Type:	Federal
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	2021
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Oh
State District:	NW
Mailing Address:	6100 COLUMBUS AVE
Mailing City,State,Zip:	SANDUSKY, OH 44870
Owner Name:	Nasa Glenn Research Center
Owner Type:	Federal
Operator Name:	Nasa Neil A Armstrong Test Facility
Operator Type:	Federal
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	Yes
Active Site State-Reg Handler:	---
Federal Facility Indicator:	The land is federally-owned, The site is federally-owned, The site is federally-operated
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Accomplished
2018 GPRA Renewals Baseline:	Not on the Baseline

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

202 GPRA Corrective Action Baseline:	Yes
Subject to Corrective Action Universe:	Yes
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	High
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	Yes
Groundwater Controls Indicator:	No
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20221205
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Biennial: List of Years
Year: 2021

Click Here for Biennial Reporting System Data:
Year: 2019

Click Here for Biennial Reporting System Data:
Year: 2017

Click Here for Biennial Reporting System Data:
Year: 2015

Click Here for Biennial Reporting System Data:
Year: 2013

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Year: 2001

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NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	Ignitable Waste
Waste Code:	D002
Waste Description:	Corrosive Waste
Waste Code:	D003
Waste Description:	Reactive Waste
Waste Code:	D005
Waste Description:	Barium
Waste Code:	D006
Waste Description:	Cadmium
Waste Code:	D007
Waste Description:	Chromium
Waste Code:	D008
Waste Description:	Lead
Waste Code:	D009
Waste Description:	Mercury
Waste Code:	D010
Waste Description:	Selenium
Waste Code:	D011
Waste Description:	Silver
Waste Code:	D012
Waste Description:	Endrin (1,2,3,4,10,10-Hexachloro-1,7-Epoxy-1,4,4a,5,6,7,8,8a-Octahydro-1,4-Endo, Endo-5,8-Dimeth-Ano-Naphthalene)
Waste Code:	D018
Waste Description:	Benzene
Waste Code:	D019
Waste Description:	Carbon Tetrachloride
Waste Code:	D030
Waste Description:	2,4-Dinitrotoluene
Waste Code:	D035
Waste Description:	Methyl Ethyl Ketone
Waste Code:	D039
Waste Description:	Tetrachloroethylene
Waste Code:	D040
Waste Description:	Trichloroethylene
Waste Code:	F001
Waste Description:	The Following Spent Halogenated Solvents Used In Degreasing: Tetrachloroethylene, Trichlorethylene, Methylene Chloride,

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

1,1,1-Trichloroethane, Carbon Tetrachloride And Chlorinated Fluorocarbons; All Spent Solvent Mixtures/Blends Used In Degreasing Containing, Before Use, A Total Of Ten Percent Or More (By Volume) Of One Or More Of The Above Halogenated Solvents Or Those Solvents Listed In F002, F004, And F005; And Still Bottoms From The Recovery Of These Spent Solvents And Spent Solvent Mixtures.

Waste Code: F002
Waste Description: The Following Spent Halogenated Solvents: Tetrachloroethylene, Methylene Chloride, Trichloroethylene, 1,1,1-Trichloroethane, Chlorobenzene, 1,1,2-Trichloro-1,2,2-Trifluoroethane, Ortho-Dichlorobenzene, Trichlorofluoromethane, And 1,1,2, Trichloroethane; All Spent Solvent Mixtures/Blends Containing, Before Use, A Total Of Ten Percent Or More (By Volume) Of One Or More Of The Above Halogenated Solvents Or Those Solvents Listed In F001, F004, And F005; And Still Bottoms From The Recovery Of These Spent Solvents And Spent Solvent Mixtures.

Waste Code: F003
Waste Description: The Following Spent Nonhalogenated Solvents: Xylene, Acetone, Ethyl Acetate, Ethyl Benzene, Ethyl Ether, Methyl Isobutyl Ketone, N-Butyl Alcohol, Cyclohexanone, And Methanol; All Spent Solvent Mixtures/Blends Containing, Before Use, Only The Above Spent Nonhalogenated Solvents; And All Spent Solvent Mixtures/Blends Containing, Before Use, One Or More Of The Above Nonhalogenated Solvents, And A Total Of Ten Percent Or More (By Volume) Of One Or More Of Those Solvents Listed In F001, F002, F004, And F005; And Still Bottoms From The Recovery Of These Spent Solvents And Spent Solvent Mixtures.

Waste Code: F005
Waste Description: The Following Spent Nonhalogenated Solvents: Toluene, Methyl Ethyl Ketone, Carbon Disulfide, Isobutanol, Pyridine, Benzene, 2-Ethoxyethanol, And 2-Nitropropane; All Spent Solvent Mixtures/Blends Containing, Before Use, A Total Of Ten Percent Or More (By Volume) Of One Or More Of The Above Nonhalogenated Solvents Or Those Solvents Listed In F001, F002, Or F004; And Still Bottoms From The Recovery Of These Spent Solvents And Spent Solvent Mixtures.

Waste Code: K047
Waste Description: Pink/Red Water From Tnt Operations.

Waste Code: P015
Waste Description: Beryllium

Waste Code: P022
Waste Description: Carbon Disulfide

Waste Code: P066
Waste Description: Ethanimidothioic Acid, N-[[(Methylamino)Carbonyl]Oxy]-, Methyl Ester (Or) Methomyl

Waste Code: P105
Waste Description: Sodium Azide

Waste Code: U001
Waste Description: Acetaldehyde (I) (Or) Ethanal (I)

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Waste Code: U002
Waste Description: 2-Propanone (I) (Or) Acetone (I)

Waste Code: U009
Waste Description: 2-Propenenitrile (Or) Acrylonitrile

Waste Code: U019
Waste Description: Benzene (I,T)

Waste Code: U037
Waste Description: Benzene, Chloro- (Or) Chlorobenzene

Waste Code: U056
Waste Description: Benzene, Hexahydro- (I) (Or) Cyclohexane (I)

Waste Code: U057
Waste Description: Cyclohexanone (I)

Waste Code: U121
Waste Description: Methane, Trichlorofluoro- (Or) Trichloromonofluoromethane

Waste Code: U134
Waste Description: Hydrofluoric Acid (C,T) (Or) Hydrogen Fluoride (C,T)

Waste Code: U147
Waste Description: 2,5-Furandione (Or) Maleic Anhydride

Waste Code: U154
Waste Description: Methanol (I) (Or) Methyl Alcohol (I)

Waste Code: U159
Waste Description: 2-Butanone (I,T) (Or) Methyl Ethyl Ketone (Mek) (I,T)

Waste Code: U161
Waste Description: 4-Methyl-2-Pentanone (I) (Or) Methyl Isobutyl Ketone (I) (Or) Pentanol, 4-Methyl-

Waste Code: U210
Waste Description: Ethene, Tetrachloro- (Or) Tetrachloroethylene

Waste Code: U211
Waste Description: Carbon Tetrachloride (Or) Methane, Tetrachloro-

Waste Code: U213
Waste Description: Furan, Tetrahydro-(I) (Or) Tetrahydrofuran (I)

Waste Code: U226
Waste Description: Ethane, 1,1,1-Trichloro- (Or) Methyl Chloroform

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: NASA GLENN RESEARCH CENTER
Legal Status: Federal
Date Became Current: 19630101
Date Ended Current: Not reported
Owner/Operator Address: 21000 BROOKPARK ROAD
Owner/Operator City,State,Zip: BROOKPARK, OH 44135

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NASA PLUM BROOK STATION
Legal Status: Federal
Date Became Current: 19630101
Date Ended Current: Not reported
Owner/Operator Address: 6100 COLUMBUS AVENUE
Owner/Operator City,State,Zip: SANDUSKY, OH 44870
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NASA PLUM BROOK STATION
Legal Status: Federal
Date Became Current: 19630101
Date Ended Current: Not reported
Owner/Operator Address: 6100 COLUMBUS AVENUE
Owner/Operator City,State,Zip: SANDUSKY, OH 44870
Owner/Operator Telephone: 419-621-3234
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NASA PLUM BROOK STATION
Legal Status: Federal
Date Became Current: 19630101
Date Ended Current: Not reported
Owner/Operator Address: 6100 COLUMBUS AVENUE
Owner/Operator City,State,Zip: SANDUSKY, OH 44870
Owner/Operator Telephone: 419-621-3234
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: NASA GLENN RESEARCH CENTER
Legal Status: Federal
Date Became Current: 19630101
Date Ended Current: Not reported
Owner/Operator Address: 21000 BROOKPARK ROAD
Owner/Operator City,State,Zip: BROOKPARK, OH 44135
Owner/Operator Telephone: 216-433-2235
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NASA PLUM BROOK STATION
Legal Status: Federal
Date Became Current: 19630101

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Date Ended Current:	Not reported
Owner/Operator Address:	6100 COLUMBUS AVENUE
Owner/Operator City,State,Zip:	SANDUSKY, OH 44870
Owner/Operator Telephone:	419-621-3234
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: NASA GLENN RESEARCH CENTER	
Legal Status:	Federal
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	21000 BROOKPARK ROAD
Owner/Operator City,State,Zip:	CLEVELAND, OH 44135
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: NASA PLUM BROOK STATION	
Legal Status:	Federal
Date Became Current:	19630101
Date Ended Current:	Not reported
Owner/Operator Address:	6100 COLUMBUS AVENUE
Owner/Operator City,State,Zip:	SANDUSKY, OH 44870
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: NASA NEIL A ARMSTRONG TEST FACILITY	
Legal Status:	Federal
Date Became Current:	19630101
Date Ended Current:	Not reported
Owner/Operator Address:	6100 COLUMBUS AVE
Owner/Operator City,State,Zip:	SANDUSKY, OH 44870
Owner/Operator Telephone:	216-433-4000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: NASA GLENN RESEARCH CENTER	
Legal Status:	Federal
Date Became Current:	19630101
Date Ended Current:	Not reported
Owner/Operator Address:	21000 BROOKPARK RD
Owner/Operator City,State,Zip:	BROOKPARK, OH 44135
Owner/Operator Telephone:	216-433-4000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Owner/Operator Name: NASA PLUM BROOK STATION
Legal Status: Federal
Date Became Current: 19630101
Date Ended Current: Not reported
Owner/Operator Address: 6100 COLUMBUS AVE
Owner/Operator City,State,Zip: SANDUSKY, OH 44870
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: NASA GLENN RESEARCH CENTER
Legal Status: Federal
Date Became Current: 19630101
Date Ended Current: Not reported
Owner/Operator Address: 21000 BROOKPARK ROAD
Owner/Operator City,State,Zip: BROOKPARK, OH 44135
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: NASA GLENN RESEARCH CENTER
Legal Status: Federal
Date Became Current: 19630101
Date Ended Current: Not reported
Owner/Operator Address: 21000 BROOKPARK ROAD
Owner/Operator City,State,Zip: BROOKPARK, OH 44135
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: NASA GLENN RESEARCH CENTER
Legal Status: Federal
Date Became Current: 19630101
Date Ended Current: Not reported
Owner/Operator Address: 21000 BROOKPARK ROAD
Owner/Operator City,State,Zip: BROOKPARK, OH 44135
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NASA PLUM BROOK STATION
Legal Status: Federal
Date Became Current: 19630101
Date Ended Current: Not reported
Owner/Operator Address: 6100 COLUMBUS AVENUE
Owner/Operator City,State,Zip: SANDUSKY, OH 44870
Owner/Operator Telephone: 419-621-3234
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NASA PLUM BROOK STATION
Legal Status: Federal
Date Became Current: 19630101
Date Ended Current: Not reported
Owner/Operator Address: 6100 COLUMBUS AVENUE
Owner/Operator City,State,Zip: SANDUSKY, OH 44870
Owner/Operator Telephone: 419-621-3234
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NASA PLUM BROOK STATION
Legal Status: Federal
Date Became Current: 19630101
Date Ended Current: Not reported
Owner/Operator Address: 6100 COLUMBUS AVE
Owner/Operator City,State,Zip: SANDUSKY, OH 44870
Owner/Operator Telephone: 216-433-4000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NASA GRC PLUM BROOK STATION
Legal Status: Federal
Date Became Current: 19630101
Date Ended Current: Not reported
Owner/Operator Address: 6100 COLUMBUS AVE
Owner/Operator City,State,Zip: SANDUSKY, OH 44870
Owner/Operator Telephone: 216-433-4000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: NASA GLENN RESEARCH CENTER
Legal Status: Federal
Date Became Current: 19630101
Date Ended Current: Not reported
Owner/Operator Address: 21000 BROOKPARK ROAD
Owner/Operator City,State,Zip: BROOKPARK, OH 44135
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NASA PLUM BROOK STATION
Legal Status: Federal
Date Became Current: 19630101
Date Ended Current: Not reported
Owner/Operator Address: 6100 COLUMBUS AVENUE
Owner/Operator City,State,Zip: SANDUSKY, OH 44870

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: NASA GLENN RESEARCH CENTER
Legal Status: Federal
Date Became Current: 19630101
Date Ended Current: Not reported
Owner/Operator Address: 21000 BROOKPARK ROAD
Owner/Operator City,State,Zip: BROOKPARK, OH 44135
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NASA PLUM BROOK STATION
Legal Status: Federal
Date Became Current: 19630101
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Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
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Legal Status: Federal
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Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: NASA GLENN RESEARCH CENTER
Legal Status: Federal
Date Became Current: 19630101
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Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: NASA GLENN RESEARCH CENTER
Legal Status: Federal
Date Became Current: 19630101

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Date Ended Current: Not reported
Owner/Operator Address: 21000 BROOKPARK RD
Owner/Operator City,State,Zip: BROOKPARK, OH 44135
Owner/Operator Telephone: 216-433-4000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NASA PLUM BROOK STATION
Legal Status: Federal
Date Became Current: 19630101
Date Ended Current: Not reported
Owner/Operator Address: 6100 COLUMBUS AVENUE
Owner/Operator City,State,Zip: SANDUSKY, OH 44870
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: NASA GLENN RESEARCH CENTER (GRC)
Legal Status: Federal
Date Became Current: 19630101
Date Ended Current: Not reported
Owner/Operator Address: 21000 BROOKPARK RD
Owner/Operator City,State,Zip: BROOKPARK, OH 44135
Owner/Operator Telephone: 216-433-4000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NASA PLUM BROOK STATION
Legal Status: Federal
Date Became Current: 19630101
Date Ended Current: Not reported
Owner/Operator Address: 6100 COLUMBUS AVENUE
Owner/Operator City,State,Zip: SANDUSKY, OH 44870
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: NASA GLENN RESEARCH CENTER
Legal Status: Federal
Date Became Current: 19630101
Date Ended Current: Not reported
Owner/Operator Address: 21000 BROOKPARK ROAD
Owner/Operator City,State,Zip: BROOKPARK, OH 44135
Owner/Operator Telephone: 216-433-2235
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Owner/Operator Name: NASA GLENN RESEARCH CTR
Legal Status: Federal
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 21000 BROOKPARK RD
Owner/Operator City,State,Zip: CLEVELAND, OH 44135
Owner/Operator Telephone: 440-433-4000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: NASA GLENN RESEARCH CENTER
Legal Status: Federal
Date Became Current: 19630101
Date Ended Current: Not reported
Owner/Operator Address: 21000 BROOKPARK ROAD
Owner/Operator City,State,Zip: BROOKPARK, OH 44135
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NAME NOT REPORTED
Legal Status: Federal
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: ADDRESS NOT REPORTED
Owner/Operator City,State,Zip: CITY NOT REPORTED, AK 99998
Owner/Operator Telephone: 312-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: NASA GLENN RESEARCH CENTER
Legal Status: Federal
Date Became Current: 19630101
Date Ended Current: Not reported
Owner/Operator Address: 21000 BROOKPARK ROAD
Owner/Operator City,State,Zip: BROOKPARK, OH 44135
Owner/Operator Telephone: 216-433-2235
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: NASA GLENN RESEARCH CTR
Legal Status: Federal
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 21000 BROOKPARK RD
Owner/Operator City,State,Zip: CLEVELAND, OH 44135
Owner/Operator Telephone: 440-433-4000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20040226
Handler Name: NASA PLUM BROOK STATION
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Oh
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20030228
Handler Name: NASA GRC PLUM BROOK STATION
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Oh
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20050228
Handler Name: NASA PLUM BROOK STATION
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Oh
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20060302
Handler Name: NASA PLUM BROOK STATION
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Oh
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20070301
Handler Name: NASA PLUM BROOK STATION

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Oh
Large Quantity Handler of Universal Waste:	Yes
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20080229
Handler Name:	NASA PLUM BROOK STATION
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Oh
Large Quantity Handler of Universal Waste:	Yes
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20090227
Handler Name:	NASA PLUM BROOK STATION
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Oh
Large Quantity Handler of Universal Waste:	Yes
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20100226
Handler Name:	NASA PLUM BROOK STATION
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Oh
Large Quantity Handler of Universal Waste:	Yes
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20120224
Handler Name:	NASA PLUM BROOK STATION
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Oh
Large Quantity Handler of Universal Waste:	Yes
Recognized Trader Importer:	No
Recognized Trader Exporter:	No

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20140224
Handler Name: NASA PLUM BROOK STATION
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Oh
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20160226
Handler Name: NASA PLUM BROOK STATION
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Oh
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20180220
Handler Name: NASA PLUM BROOK STATION
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Oh
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20200225
Handler Name: NASA PLUM BROOK STATION
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Oh
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Receive Date:	20220224
Handler Name:	NASA NEIL A ARMSTRONG TEST FACILITY
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Oh
Large Quantity Handler of Universal Waste:	Yes
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

Receive Date:	20050915
Handler Name:	NASA PLUM BROOK STATION
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Oh
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20160825
Handler Name:	NASA PLUM BROOK STATION
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Oh
Large Quantity Handler of Universal Waste:	Yes
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20191031
Handler Name:	NASA PLUM BROOK STATION
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Oh
Large Quantity Handler of Universal Waste:	Yes
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

Receive Date:	19990503
Handler Name:	NASA GRC PLUM BROOK STATION
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Oh
Large Quantity Handler of Universal Waste:	No

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20010924
Handler Name: NASA GRC PLUM BROOK STATION
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Oh
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19920221
Handler Name: NASA PLUM BROOK STATION
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Oh
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19940415
Handler Name: NASA LERC PLUM BROOK STATION
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Oh
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19960228
Handler Name: NASA LERC PLUM BROOK STATION
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Oh
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19980209
Handler Name: NASA LERC PLUM BROOK STATION
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Oh
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20000225
Handler Name: NASA GRC PLUM BROOK STATION
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Oh
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20020618
Handler Name: NASA GRC PLUMBROOK STATION
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Oh
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 92711
NAICS Description: SPACE RESEARCH AND TECHNOLOGY

Has the Facility Received Notices of Violations:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19980819
Actual Return to Compliance Date: 19981120
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 004

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Date of Enforcement Action:	19980923
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	OH
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	OHTK
Enforcement Responsible Sub-Organization:	NW
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 19980819
Actual Return to Compliance Date: 19981120
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 004
Date of Enforcement Action: 19980923
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: OH
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: OHTK
Enforcement Responsible Sub-Organization: NW
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: LDR - General
Date Violation was Determined: 19890824
Actual Return to Compliance Date: 19911205
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	LDR - General
Date Violation was Determined:	19980819
Actual Return to Compliance Date:	19981120
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004
Date of Enforcement Action:	19980923
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	OH
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	OHTK
Enforcement Responsible Sub-Organization:	NW
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Closure/Post-Closure
Date Violation was Determined: 20040116
Actual Return to Compliance Date: 20040308
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 005
Date of Enforcement Action: 20040116
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: OHTK
Enforcement Responsible Sub-Organization: NW
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 19920218
Actual Return to Compliance Date: 19920520
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19920310
Enforcement Identifier: 002
Date of Enforcement Action: 19920228
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: OHPW
Enforcement Responsible Sub-Organization: NW
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Universal Waste - Small Quantity Handlers
Date Violation was Determined: 20200529
Actual Return to Compliance Date: 20210622
Return to Compliance Qualifier: Documented
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Date of Enforcement Action: 20200529
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: DSA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD IS-General Facility Standards
Date Violation was Determined: 20200529
Actual Return to Compliance Date: 20210622
Return to Compliance Qualifier: Documented
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20200529
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: DSA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Permits - Application
Date Violation was Determined:	20200529
Actual Return to Compliance Date:	20210622
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20200529
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	DSA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Manifest
Date Violation was Determined:	19980819
Actual Return to Compliance Date:	19981120
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Date of Enforcement Action:	19980923
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	OH
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	OHTK
Enforcement Responsible Sub-Organization:	NW
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Federal or State Statute
Date Violation was Determined:	20230808
Actual Return to Compliance Date:	20240131
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20240131
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	BGD
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Universal Waste - Small Quantity Handlers
Date Violation was Determined:	20200529
Actual Return to Compliance Date:	20210622
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Date of Enforcement Action:	20200529
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	DSA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20200529
Actual Return to Compliance Date:	20210622
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20200529
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	DSA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 19920218
Actual Return to Compliance Date: 19920520
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19920310
Enforcement Identifier: 002
Date of Enforcement Action: 19920228
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: OHPW
Enforcement Responsible Sub-Organization: NW
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 19980819
Actual Return to Compliance Date: 19981120
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 004

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Date of Enforcement Action:	19980923
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	OH
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	OHTK
Enforcement Responsible Sub-Organization:	NW
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Manifest
Date Violation was Determined:	19980819
Actual Return to Compliance Date:	19981120
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	19980902
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	OH
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	OHTK
Enforcement Responsible Sub-Organization:	NW
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Universal Waste - Small Quantity Handlers
Date Violation was Determined:	20110419
Actual Return to Compliance Date:	20120820
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Date of Enforcement Action:	20120615
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	WSF
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19890824
Actual Return to Compliance Date:	19911205
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20110419
Actual Return to Compliance Date: 20120820
Return to Compliance Qualifier: Documented
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20120615
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: WSF
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	19980819
Actual Return to Compliance Date:	19981120
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	19980902
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	OH
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	OHTK
Enforcement Responsible Sub-Organization:	NW
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	19980819
Actual Return to Compliance Date:	19981120
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Date of Enforcement Action: 19980923
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: OH
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: OHTK
Enforcement Responsible Sub-Organization: NW
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 19980819
Actual Return to Compliance Date: 19981120
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 004
Date of Enforcement Action: 19980923
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: OH
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: OHTK
Enforcement Responsible Sub-Organization: NW
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD IS-Contingency Plan and Emergency Procedures
Date Violation was Determined:	20200529
Actual Return to Compliance Date:	20210622
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20200529
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	DSA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General Facility Standards
Date Violation was Determined:	20090624
Actual Return to Compliance Date:	20091113
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Date of Enforcement Action:	20091005
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	BGD
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - Records/Reporting
Date Violation was Determined:	20110419
Actual Return to Compliance Date:	20120820
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20120615
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	WSF
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - General
Date Violation was Determined:	20200529
Actual Return to Compliance Date:	20210622
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20200529
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	DSA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	19980819
Actual Return to Compliance Date:	19981120
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Date of Enforcement Action:	19980902
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	OH
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	OHTK
Enforcement Responsible Sub-Organization:	NW
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Permits - General Information
Date Violation was Determined:	20090624
Actual Return to Compliance Date:	20091113
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20091005
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	BGD
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Used Oil - Generators
Date Violation was Determined:	20110419
Actual Return to Compliance Date:	20120820
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20120615
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	WSF
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD IS-Container Use and Management
Date Violation was Determined:	20200529
Actual Return to Compliance Date:	20210622
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Date of Enforcement Action:	20200529
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	DSA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20090624
Actual Return to Compliance Date:	20091113
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20091005
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	BGD
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	LDR - General
Date Violation was Determined:	19980819
Actual Return to Compliance Date:	19981120
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	19980902
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	OH
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	OHTK
Enforcement Responsible Sub-Organization:	NW
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	19920218
Actual Return to Compliance Date:	19920520
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19920310
Enforcement Identifier:	002

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Date of Enforcement Action: 19920228
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: OHPW
Enforcement Responsible Sub-Organization: NW
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD IS-Contingency Plan and Emergency Procedures
Date Violation was Determined: 20200529
Actual Return to Compliance Date: 20210622
Return to Compliance Qualifier: Documented
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20200529
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: DSA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 19920218
Actual Return to Compliance Date: 19920520
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19920310
Enforcement Identifier: 002
Date of Enforcement Action: 19920228
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: OHPW
Enforcement Responsible Sub-Organization: NW
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Universal Waste - Small Quantity Handlers
Date Violation was Determined: 20090624
Actual Return to Compliance Date: 20091113
Return to Compliance Qualifier: Documented
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Date of Enforcement Action:	20091005
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	BGD
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Universal Waste - Small Quantity Handlers
Date Violation was Determined:	20100430
Actual Return to Compliance Date:	20100914
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20100712
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	BGD
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Permits - General Information
Date Violation was Determined: 20200529
Actual Return to Compliance Date: 20210622
Return to Compliance Qualifier: Documented
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20200529
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: DSA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 19920218
Actual Return to Compliance Date: 19920520
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19920310
Enforcement Identifier: 002
Date of Enforcement Action: 19920228
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: OHPW
Enforcement Responsible Sub-Organization: NW
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 19980819
Actual Return to Compliance Date: 19980923
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 003

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Date of Enforcement Action: 19980902
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: OH
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: OHTK
Enforcement Responsible Sub-Organization: NW
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 19980819
Actual Return to Compliance Date: 19981120
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 003
Date of Enforcement Action: 19980902
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: OH
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: OHTK
Enforcement Responsible Sub-Organization: NW
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Permits - Application
Date Violation was Determined: 20090624
Actual Return to Compliance Date: 20091113
Return to Compliance Qualifier: Documented
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20091005
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: BGD
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Permits - Application
Date Violation was Determined: 20200529
Actual Return to Compliance Date: 20210622
Return to Compliance Qualifier: Documented
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Date of Enforcement Action: 20200529
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: DSA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Universal Waste - Small Quantity Handlers
Date Violation was Determined: 20200529
Actual Return to Compliance Date: 20210622
Return to Compliance Qualifier: Documented
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20200529
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: DSA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	19980819
Actual Return to Compliance Date:	19981120
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	19980902
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	OH
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	OHTK
Enforcement Responsible Sub-Organization:	NW
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19890824
Actual Return to Compliance Date: 19911205
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	19980819
Actual Return to Compliance Date:	19980923
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	19980902
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	OH
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	OHTK
Enforcement Responsible Sub-Organization:	NW
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19980819
Actual Return to Compliance Date:	19981120
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Date of Enforcement Action:	19980902
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	OH
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	OHTK
Enforcement Responsible Sub-Organization:	NW
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Universal Waste - Small Quantity Handlers
Date Violation was Determined:	20200529
Actual Return to Compliance Date:	20210622
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20200529
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	DSA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	19980819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	OHTK
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	19981120
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170810
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	DPLE
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20161017

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	DPLE
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20160825
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	KARR
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19980819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	OHTK
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	19981120
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20110419
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	AHI
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20050916
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	AHI
Evaluation Responsible Sub-Organization:	NW

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20180228
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	DPLE
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170227
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	DPLE
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20031209
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	OHTK
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19890824
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19911205
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Former Citation:	Not reported
Evaluation Date:	19980819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	OHTK
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	19981120
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170501
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	DPLE
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20040116
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	OHTK
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	20040308
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19920218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	OHPW
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	19920520
Scheduled Compliance Date:	19920310
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190916
Evaluation Responsible Agency:	EPA
Found Violation:	Yes

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	DSA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20210622
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190916
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	DSA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20210622
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190916
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	DSA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20210622
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19980819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	OHTK
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	19981120
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20180416
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	DPLE
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20230808
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	DNG
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20240131
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190916
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	DSA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20210622
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190916
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	DSA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20210622
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19920218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	OHPW
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	19920520
Scheduled Compliance Date:	19920310
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Evaluation Date:	19980819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	OHTK
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	19981120
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20160222
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	DPLE
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19980819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	OHTK
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	19981120
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20110419
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	WSF
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20120820
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20011029
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	GROUNDWATER MONITORING EVALUATION
Evaluation Responsible Person Identifier:	OHTK

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19890824
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19911205
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20160808
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	DPLE
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20110419
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	WSF
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20120820
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19980819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	OHTK
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	19981120
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19980819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	OHTK
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	19981120
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19980819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	OHTK
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	19981120
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190916
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	DSA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20210622
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20090624
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	BGD
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20091113
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20110419
Evaluation Responsible Agency:	EPA

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	WSF
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20120820
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190916
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	DSA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20210622
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20191031
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	DPLE
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20010927
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	PLJ
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20020322
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	LMJ
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19980819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	OHTK
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	19981120
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20090624
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	BGD
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20091113
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20110419
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	WSF
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20120820
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190916
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	DSA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20210622
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Evaluation Date:	20090624
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	BGD
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20091113
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19980819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	OHTK
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	19981120
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19920218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	OHPW
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	19920520
Scheduled Compliance Date:	19920310
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190916
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	DSA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20210622
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19920218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	OHPW

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	19920520
Scheduled Compliance Date:	19920310
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20090624
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	BGD
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20091113
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20100430
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	BGD
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20100914
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20100430
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	AHI
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20010523
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	PLJ
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190916
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	DSA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20210622
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19920218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	OHPW
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	19920520
Scheduled Compliance Date:	19920310
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19980819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	OHTK
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	19980923
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19980819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	OHTK
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	19981120
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20090624
Evaluation Responsible Agency:	EPA

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	BGD
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20091113
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190916
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	DSA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20210622
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190916
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	DSA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20210622
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19980819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	OHTK
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	19981120
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20160523
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	DPLE
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19890824
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19911205
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19980819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	OHTK
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	19980923
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19980819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	OHTK
Evaluation Responsible Sub-Organization:	NW
Actual Return to Compliance Date:	19981120
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190916
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	DSA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20210622
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Evaluation Date:	20000920
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20120405
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	BGD
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

2020 COR ACTION:

EPA ID:	OH3800015379
Region:	5
Action:	Not reported

PADS:

Name:	NASA PLUM BROOK STA
Address:	6100 COLUMBUS AVE
Address 2:	Not reported
City,State,Zip:	SANDUSKY, OH 44870
EDR ID:	1015735673
EPAID:	OH3800015379
Region:	05
Generator:	Y
Storer:	N
Disposer:	N
Transporter:	N
Smelter:	N
Research Facility:	N
Mailing Address:	6100 COLUMBUS AVE
Mailing Address 2:	Not reported
Mailing City:	SANDUSKY
Mailing State:	OH
Mailing Zip:	44870
Mailing Country:	US
Owner Name:	US GOVERNMENT
Certification Date:	05/29/1990
Contact Name:	AMY L BOWER
Contact Title:	Not reported
Contact Telephone:	419-621-3233
Contact Text:	Not reported
Contact Email:	Not reported

ICIS:

Enforcement Action ID:	05-200038100
FRS ID:	110000539711
Action Name:	NASA Plum Brook Station
Facility Name:	NASA LEWIS RESEARCH CENTER PLUM BROOK STATION
Facility Address:	6100 COLUMBUS AVENUE SANDUSKY, OH 44870-8329
Enforcement Action Type:	Notice of Violation
Facility County:	ERIE
Program System Acronym:	RCRAINFO
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	NOV
Facility SIC Code:	Not reported
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	41.38458
Longitude in Decimal Degrees:	-82.66691
Permit Type Desc:	Not reported
Program System Acronym:	OH3800015379
Facility NAICS Code:	Not reported
Tribal Land Code:	Not reported

Enforcement Action ID:	05-200021630
FRS ID:	110000539711

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Action Name:	NASA Plum Brook Station
Facility Name:	NASA LEWIS RESEARCH CENTER PLUM BROOK STATION
Facility Address:	6100 COLUMBUS AVENUE SANDUSKY, OH 44870-8329
Enforcement Action Type:	Notice of Violation
Facility County:	ERIE
Program System Acronym:	RCRAINFO
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	NOV
Facility SIC Code:	Not reported
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	41.38458
Longitude in Decimal Degrees:	-82.66691
Permit Type Desc:	Not reported
Program System Acronym:	OH3800015379
Facility NAICS Code:	Not reported
Tribal Land Code:	Not reported

FINDS:

Registry ID: 110000539711

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

The OH-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.
The National Compliance Database (NCDB) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA).
All generators and treatment, storage, and disposal (TSD) facilities who handle hazardous waste are required to report to the EPA Administrator at least once every two years. The data collected is used to create the National Biennial Resource Conservation and Recovery Act (RCRA) Hazardous Waste Report. This data is processed within the RCRA Information (RCRAInfo) database
The Risk Management Plan (RMP) database stores the risk management plans reported by companies that handle, manufacture, use, or store certain flammable or toxic substances, as required under section 112(r) of the Clean Air Act (CAA).
The Air Facility System (AFS) contains compliance and permit data for stationary sources of air pollution regulated by the EPA, state, and local air pollution agencies.
ICIS-Air (AIR) AIR is the modernization of the Air Facility System (AFS) into the Integrated Compliance Information System (ICIS). AIR contains enforcement, compliance, and permit data for stationary sources of air pollution regulated by the EPA, State, and Local air pollution agencies.
The Integrated Compliance Information System (ICIS) provides a database that, when complete, will contain integrated enforcement and compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain enforcement data with a single repository for that information.

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Currently, ICIS contains all Federal Administrative and Judicial enforcement actions and a subset of the Permit Compliance System (PCS), which supports the National Pollutant Discharge Elimination System (NPDES). This information is maintained in ICIS by EPA in the Regional offices and it at Headquarters. A future release of ICIS will completely replace PCS and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities that support compliance and enforcement programs, including incident tracking, compliance assistance, and compliance monitoring.
The Toxic Release Inventory System (TRIS) is a publicly available EPA database reported annually by certain covered industry groups, as well as federal facilities. It contains information about more than 650 toxic chemicals that are being used, manufactured, treated, transported, or released into the environment, and includes information about waste management and pollution prevention activities.
The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.
THE SUPERFUND ENTERPRISE MANAGEMENT SYSTEM (SEMS) INTEGRATES MULTIPLE LEGACY SYSTEMS INTO A COMPREHENSIVE TRACKING AND REPORTING TOOL, PROVIDING DATA ON THE INVENTORY OF ACTIVE AND ARCHIVED HAZARDOUS WASTE SITES EVALUATED BY THE SUPERFUND PROGRAM. IT CONTAINS SITES THAT ARE EITHER PROPOSED TO BE OR ARE ON THE NATIONAL PRIORITIES LIST (NPL) AS WELL AS SITES THAT ARE IN THE SCREENING AND ASSESSMENT PHASE FOR POSSIBLE INCLUSION ON THE NPL.
The National Pollutant Discharge Elimination System (NPDES) module of the Integrated Compliance Information System (ICIS). Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

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

ECHO:

Envid:	1015735673
Registry ID:	110000539711
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110000539711
Name:	NASA LEWIS RESEARCH CENTER PLUM BROOK STATION
Address:	6100 COLUMBUS AVENUE
City,State,Zip:	SANDUSKY, OH 44870

DOCKET HWC:

Agency:	NASA
Facility ID:	OH3800015379
Name:	GLENN RESEARCH CENTER PLUM BROOK STATION
Address:	6100 COLUMBUS AVE
City,State,Zip:	SANDUSKY, OH 44870
Reporting Mechanism:	RCRA 3010
Status:	On MDL

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Added Date: 2/12/1988

E MANIFEST:

Manifest Tracking Number:	019663372JJK
Last Updated Date:	20190103
Shipped Date:	20181214
Received Date:	20181220
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	OH3800015379
Generator Name:	Nasa Plum Brook Station
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	6100 COLUMBUS AVE
Generator Mail Street 2:	Not reported
Generator Mail City:	SANDUSKY
Generator Mail State:	OH
Generator Mail Zip:	44870
Generator Location Street Number:	Not reported
Generator Location Street 1:	6100 COLUMBUS AVE
Generator Location Street 2:	Not reported
Generator Location City:	SANDUSKY
Generator Location Zip:	44870
Generator Location State:	OH
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	MID048090633
Designated Facility Name:	Wayne Disposal Inc
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	49350 N I94 SERVICE DR
Designated Facility Mail City:	BELLEVILLE
Designated Facility Mail Zip:	48111
Designated Facility Mail State:	MI
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	49350 N I94 SERVICE DR
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	BELLEVILLE
Designated Facility Location Zip:	48111
Designated Facility Location State:	MI
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	019284518JJK
Last Updated Date:	20200108
Shipped Date:	20191219
Received Date:	20191226
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	OH3800015379
Generator Name:	Nasa - Plumbrook Station
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	6100 COLUMBUS AVE
Generator Mail Street 2:	Not reported
Generator Mail City:	SANDUSKY
Generator Mail State:	OH

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Generator Mail Zip:	44870
Generator Location Street Number:	Not reported
Generator Location Street 1:	6100 COLUMBUS AVE
Generator Location Street 2:	Not reported
Generator Location City:	SANDUSKY
Generator Location Zip:	44870
Generator Location State:	OH
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	OHD066060609
Designated Facility Name:	Chemtron Corporation
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	35850 SCHNEIDER CT
Designated Facility Mail City:	AVON
Designated Facility Mail Zip:	44011
Designated Facility Mail State:	OH
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	35850 SCHNEIDER CT
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	AVON
Designated Facility Location Zip:	44011
Designated Facility Location State:	OH
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	019284540JJK
Last Updated Date:	20191119
Shipped Date:	20191107
Received Date:	20191111
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	OH3800015379
Generator Name:	Nasa - Plumbrook Station
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	6100 COLUMBUS AVE
Generator Mail Street 2:	Not reported
Generator Mail City:	SANDUSKY
Generator Mail State:	OH
Generator Mail Zip:	44870
Generator Location Street Number:	Not reported
Generator Location Street 1:	6100 COLUMBUS AVE
Generator Location Street 2:	Not reported
Generator Location City:	SANDUSKY
Generator Location Zip:	44870
Generator Location State:	OH
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	OHD066060609
Designated Facility Name:	Chemtron Corporation
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	35850 SCHNEIDER CT
Designated Facility Mail City:	AVON
Designated Facility Mail Zip:	44011
Designated Facility Mail State:	OH
Designated Facility Location Street Number:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Designated Facility Location Street 1:	35850 SCHNEIDER CT
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	AVON
Designated Facility Location Zip:	44011
Designated Facility Location State:	OH
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	019284586JJK
Last Updated Date:	20210930
Shipped Date:	20210909
Received Date:	20210917
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	OH3800015379
Generator Name:	Nasa Neil A Armstrong Test Facility
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	6100 COLUMBUS AVE
Generator Mail Street 2:	Not reported
Generator Mail City:	SANDUSKY
Generator Mail State:	OH
Generator Mail Zip:	44870
Generator Location Street Number:	Not reported
Generator Location Street 1:	6100 COLUMBUS AVE
Generator Location Street 2:	Not reported
Generator Location City:	SANDUSKY
Generator Location Zip:	44870
Generator Location State:	OH
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	OHD066060609
Designated Facility Name:	Chemtron Corporation
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	35850 SCHNEIDER CT
Designated Facility Mail City:	AVON
Designated Facility Mail Zip:	44011
Designated Facility Mail State:	OH
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	35850 SCHNEIDER CT
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	AVON
Designated Facility Location Zip:	44011
Designated Facility Location State:	OH
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	019284592JJK
Last Updated Date:	20211208
Shipped Date:	20211118
Received Date:	20211129
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	OH3800015379

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Generator Name:	Nasa Neil A Armstrong Test Facility
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	6100 COLUMBUS AVE
Generator Mail Street 2:	Not reported
Generator Mail City:	SANDUSKY
Generator Mail State:	OH
Generator Mail Zip:	44870
Generator Location Street Number:	Not reported
Generator Location Street 1:	6100 COLUMBUS AVE
Generator Location Street 2:	Not reported
Generator Location City:	SANDUSKY
Generator Location Zip:	44870
Generator Location State:	OH
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	OHD066060609
Designated Facility Name:	Chemtron Corporation
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	35850 SCHNEIDER CT
Designated Facility Mail City:	AVON
Designated Facility Mail Zip:	44011
Designated Facility Mail State:	OH
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	35850 SCHNEIDER CT
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	AVON
Designated Facility Location Zip:	44011
Designated Facility Location State:	OH
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	019284628JJK
Last Updated Date:	20200220
Shipped Date:	20200206
Received Date:	20200210
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	OH3800015379
Generator Name:	Nasa - Plumbrook Station
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	6100 COLUMBUS AVE
Generator Mail Street 2:	Not reported
Generator Mail City:	SANDUSKY
Generator Mail State:	OH
Generator Mail Zip:	44870
Generator Location Street Number:	Not reported
Generator Location Street 1:	6100 COLUMBUS AVE
Generator Location Street 2:	Not reported
Generator Location City:	SANDUSKY
Generator Location Zip:	44870
Generator Location State:	OH
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	OHD066060609
Designated Facility Name:	Chemtron Corporation
Designated Facility Mail Street Number:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	35850 SCHNEIDER CT
Designated Facility Mail City:	AVON
Designated Facility Mail Zip:	44011
Designated Facility Mail State:	OH
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	35850 SCHNEIDER CT
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	AVON
Designated Facility Location Zip:	44011
Designated Facility Location State:	OH
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	019284639JJK
Last Updated Date:	20200731
Shipped Date:	20200514
Received Date:	20200521
Manifest Status:	Corrected
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	OH3800015379
Generator Name:	Nasa - Plumbrook Station
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	6100 COLUMBUS AVE
Generator Mail Street 2:	Not reported
Generator Mail City:	SANDUSKY
Generator Mail State:	OH
Generator Mail Zip:	44870
Generator Location Street Number:	Not reported
Generator Location Street 1:	6100 COLUMBUS AVE
Generator Location Street 2:	Not reported
Generator Location City:	SANDUSKY
Generator Location Zip:	44870
Generator Location State:	OH
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	OHD066060609
Designated Facility Name:	Chemtron Corporation
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	35850 SCHNEIDER CT
Designated Facility Mail City:	AVON
Designated Facility Mail Zip:	44011
Designated Facility Mail State:	OH
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	35850 SCHNEIDER CT
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	AVON
Designated Facility Location Zip:	44011
Designated Facility Location State:	OH
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	019284648JJK
Last Updated Date:	20200923

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Shipped Date:	20200827
Received Date:	20200904
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Web
Generator EPA ID:	OH3800015379
Generator Name:	Nasa Plum Brook Station
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	6100 COLUMBUS AVE
Generator Mail Street 2:	Not reported
Generator Mail City:	SANDUSKY
Generator Mail State:	OH
Generator Mail Zip:	44870
Generator Location Street Number:	Not reported
Generator Location Street 1:	6100 COLUMBUS AVE
Generator Location Street 2:	Not reported
Generator Location City:	SANDUSKY
Generator Location Zip:	44870
Generator Location State:	OH
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	OHD066060609
Designated Facility Name:	Chemtron Corporation
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	35850 SCHNEIDER CT
Designated Facility Mail City:	AVON
Designated Facility Mail Zip:	44011
Designated Facility Mail State:	OH
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	35850 SCHNEIDER CT
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	AVON
Designated Facility Location Zip:	44011
Designated Facility Location State:	OH
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	019284881JJK
Last Updated Date:	20200326
Shipped Date:	20200318
Received Date:	20200320
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	OH3800015379
Generator Name:	Nasa - Plumbrook Station
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	6100 COLUMBUS AVE
Generator Mail Street 2:	Not reported
Generator Mail City:	SANDUSKY
Generator Mail State:	OH
Generator Mail Zip:	44870
Generator Location Street Number:	Not reported
Generator Location Street 1:	6100 COLUMBUS AVE
Generator Location Street 2:	Not reported
Generator Location City:	SANDUSKY

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Generator Location Zip:	44870
Generator Location State:	OH
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	OHD066060609
Designated Facility Name:	Chemtron Corporation
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	35850 SCHNEIDER CT
Designated Facility Mail City:	AVON
Designated Facility Mail Zip:	44011
Designated Facility Mail State:	OH
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	35850 SCHNEIDER CT
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	AVON
Designated Facility Location Zip:	44011
Designated Facility Location State:	OH
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	019284883JJK
Last Updated Date:	20200331
Shipped Date:	20200318
Received Date:	20200320
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	OH3800015379
Generator Name:	Nasa - Plumbrook Station
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	6100 COLUMBUS AVE
Generator Mail Street 2:	Not reported
Generator Mail City:	SANDUSKY
Generator Mail State:	OH
Generator Mail Zip:	44870
Generator Location Street Number:	Not reported
Generator Location Street 1:	6100 COLUMBUS AVE
Generator Location Street 2:	Not reported
Generator Location City:	SANDUSKY
Generator Location Zip:	44870
Generator Location State:	OH
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	OHD066060609
Designated Facility Name:	Chemtron Corporation
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	35850 SCHNEIDER CT
Designated Facility Mail City:	AVON
Designated Facility Mail Zip:	44011
Designated Facility Mail State:	OH
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	35850 SCHNEIDER CT
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	AVON
Designated Facility Location Zip:	44011
Designated Facility Location State:	OH

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	022666378JJK
Last Updated Date:	20210618
Shipped Date:	20210527
Received Date:	20210610
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	OH3800015379
Generator Name:	Nasa - Plumbrook Station
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	6100 COLUMBUS AVE
Generator Mail Street 2:	Not reported
Generator Mail City:	SANDUSKY
Generator Mail State:	OH
Generator Mail Zip:	44870
Generator Location Street Number:	Not reported
Generator Location Street 1:	6100 COLUMBUS AVE
Generator Location Street 2:	Not reported
Generator Location City:	SANDUSKY
Generator Location Zip:	44870
Generator Location State:	OH
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	MID048090633
Designated Facility Name:	Wayne Disposal, Inc. Site #2 Landfill
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	49350 N I-94 SERVICE DRIVE
Designated Facility Mail City:	BELLEVILLE
Designated Facility Mail Zip:	48111
Designated Facility Mail State:	MI
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	49350 N I-94 SERVICE DRIVE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	BELLEVILLE
Designated Facility Location Zip:	48111
Designated Facility Location State:	MI
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Federal Waste:

Manifest Tracking Number:	018286814JJK
Waste Line Number:	1
Federal Waste Code:	D035
Federal Waste:	METHYL ETHYL KETONE

Manifest Tracking Number:	018286814JJK
Waste Line Number:	1
Federal Waste Code:	F003
Federal Waste:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Manifest Tracking Number: 018286814JJK
Waste Line Number: 1
Federal Waste Code: F005
Federal Waste: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Manifest Tracking Number: 018286814JJK
Waste Line Number: 2
Federal Waste Code: D001
Federal Waste: IGNITABLE WASTE

Manifest Tracking Number: 018286814JJK
Waste Line Number: 2
Federal Waste Code: D035
Federal Waste: METHYL ETHYL KETONE

Manifest Tracking Number: 018286814JJK
Waste Line Number: 3
Federal Waste Code: D001
Federal Waste: IGNITABLE WASTE

Manifest Tracking Number: 018286814JJK
Waste Line Number: 3
Federal Waste Code: D035
Federal Waste: METHYL ETHYL KETONE

Manifest Tracking Number: 018286814JJK
Waste Line Number: 3
Federal Waste Code: F002
Federal Waste: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Manifest Tracking Number: 018286814JJK
Waste Line Number: 3
Federal Waste Code: F003
Federal Waste: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Manifest Tracking Number: 018286814JJK
Waste Line Number: 3
Federal Waste Code: F005
Federal Waste: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Manifest Tracking Number: 018286814JJK
Waste Line Number: 4
Federal Waste Code: D002
Federal Waste: CORROSIVE WASTE

Manifest Tracking Number: 018286814JJK
Waste Line Number: 5
Federal Waste Code: D002
Federal Waste: CORROSIVE WASTE

Manifest Tracking Number: 018286814JJK
Waste Line Number: 6
Federal Waste Code: D001
Federal Waste: IGNITABLE WASTE

Manifest Tracking Number: 018286814JJK
Waste Line Number: 6
Federal Waste Code: D005
Federal Waste: BARIUM

Manifest Tracking Number: 018286814JJK
Waste Line Number: 6
Federal Waste Code: D008
Federal Waste: LEAD

Manifest Tracking Number: 018286814JJK
Waste Line Number: 7
Federal Waste Code: D008
Federal Waste: LEAD

Manifest Tracking Number: 018286814JJK
Waste Line Number: 8
Federal Waste Code: D002
Federal Waste: CORROSIVE WASTE

Manifest Tracking Number: 018286814JJK
Waste Line Number: 9
Federal Waste Code: D001

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Federal Waste: IGNITABLE WASTE

Manifest Tracking Number: 018286814JJK
Waste Line Number: 9
Federal Waste Code: D002
Federal Waste: CORROSIVE WASTE

Manifest Tracking Number: 018286814JJK
Waste Line Number: 10
Federal Waste Code: D001
Federal Waste: IGNITABLE WASTE

Manifest Tracking Number: 018286814JJK
Waste Line Number: 10
Federal Waste Code: D007
Federal Waste: CHROMIUM

Transporter:
Manifest Tracking Number: 018286814JJK
Transporter Line Number: 1
Transporter EPA ID: OHD066060609
Transporter Name: Chemtron Corporation

Manifest Tracking Number: 018286814JJK
Transporter Line Number: 2
Transporter EPA ID: OHD066060609
Transporter Name: Chemtron Corporation

Manifest Tracking Number: 018286814JJK
Transporter Line Number: 3
Transporter EPA ID: OHR000105395
Transporter Name: Kepich Transportation Inc

Waste Line:
Manifest Tracking Number: 018286814JJK
Waste Line Number: 1
U.S. DOT Hazardous Indicator: Y
U.S. DOT ID Number: UN1325
U.S. DOT Description: Un1325, Flammable Solids, Organic, N.O.S.,4.1, Pgii
Non-Hazardous Waste Description: Not reported
Number of Containers: 1
Container Type Code: DM
Container Type Description: Metal drums, barrels, kegs
Waste Quantity: 148
Quantity Unit of Measure Code: P
Quantity Unit of Measure Description: Pounds
Waste Quantity, in Tons: 0.074
Acute Waste Quantity, in Tons: 0
Non-Acute Waste Quantity, in Tons: 0.074
Waste Quantity, in Kilograms: 67.120224
Acute Waste Quantity, in Kilograms: 0
Non-Acute Waste Quantity, in Kilorgrams: 67.120224
Management Method Code: H141
Management Method Description: STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator: N
Quantity Discrepancy Indicator: N

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Waste Type Discrepancy Indicator: N
Waste Density: Not reported
Waste Density Unit of Measure Code: Not reported
Waste Density Unit of Measure Description: Not reported
Form Code: Not reported
Form Code Description: Not reported
Source Code: Not reported
Source Code Description: Not reported
Waste Minimization Code: Not reported
Waste Minimization Code Description: Not reported
Consent Number: Not reported
EPA Waste Indicator: Y

Manifest Tracking Number: 018286814JJK
Waste Line Number: 2
U.S. DOT Hazardous Indicator: Y
U.S. DOT ID Number: UN1950
U.S. DOT Description: Un1950, Aerosols, [Flammable, (Each Not Exceeding 1 L Capacity)],2.1,
Non-Hazardous Waste Description: Not reported
Number of Containers: 1
Container Type Code: DM
Container Type Description: Metal drums, barrels, kegs
Waste Quantity: 76
Quantity Unit of Measure Code: P
Quantity Unit of Measure Description: Pounds
Waste Quantity, in Tons: 0.038
Acute Waste Quantity, in Tons: 0
Non-Acute Waste Quantity, in Tons: 0.038
Waste Quantity, in Kilograms: 34.46714
Acute Waste Quantity, in Kilograms: 0
Non-Acute Waste Quantity, in Kilorgrams: 34.46714
Management Method Code: H141
Management Method Description: STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator: N
Quantity Discrepancy Indicator: N
Waste Type Discrepancy Indicator: N
Waste Density: Not reported
Waste Density Unit of Measure Code: Not reported
Waste Density Unit of Measure Description: Not reported
Form Code: Not reported
Form Code Description: Not reported
Source Code: Not reported
Source Code Description: Not reported
Waste Minimization Code: Not reported
Waste Minimization Code Description: Not reported
Consent Number: Not reported
EPA Waste Indicator: Y

Manifest Tracking Number: 018286814JJK
Waste Line Number: 3
U.S. DOT Hazardous Indicator: Y
U.S. DOT ID Number: UN1993
U.S. DOT Description: Un1993, Waste, Flammable Liquids, N.O.S.(Methyl Ethyl Ketone, Toluene), 3 , Pgii
Non-Hazardous Waste Description: Not reported
Number of Containers: 1
Container Type Code: DM

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Container Type Description:	Metal drums, barrels, kegs
Waste Quantity:	128
Quantity Unit of Measure Code:	P
Quantity Unit of Measure Description:	Pounds
Waste Quantity, in Tons:	0.064
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.064
Waste Quantity, in Kilograms:	58.049923
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	58.049923
Management Method Code:	H141
Management Method Description:	STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	Y

Manifest Tracking Number:	018286814JJK
Waste Line Number:	4
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	UN3264
U.S. DOT Description:	Un3264, Waste, Corrosive Liquid, Acidic, Inorganic, N.O.S. (Nitric Acid, Hydrochloric Acid), 8 , Pgii (D002)
Non-Hazardous Waste Description:	Not reported
Number of Containers:	1
Container Type Code:	DF
Container Type Description:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	10
Quantity Unit of Measure Code:	P
Quantity Unit of Measure Description:	Pounds
Waste Quantity, in Tons:	0.005
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.005
Waste Quantity, in Kilograms:	4.53515
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	4.53515
Management Method Code:	H141
Management Method Description:	STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Source Code Description: Not reported
Waste Minimization Code: Not reported
Waste Minimization Code Description: Not reported
Consent Number: Not reported
EPA Waste Indicator: Y

Manifest Tracking Number: 018286814JJK
Waste Line Number: 5
U.S. DOT Hazardous Indicator: Y
U.S. DOT ID Number: UN3266
U.S. DOT Description: Rq Un3266, Waste, Corrosive Liquid, Basic, Inorganic, N.O.S. (Sodium Hypochlorite), 8 , Pgii (D002)
Non-Hazardous Waste Description: Not reported
Number of Containers: 1
Container Type Code: DF
Container Type Description: Fiberboard or plastic drums, barrels, kegs
Waste Quantity: 9
Quantity Unit of Measure Code: P
Quantity Unit of Measure Description: Pounds
Waste Quantity, in Tons: 0.0045
Acute Waste Quantity, in Tons: 0
Non-Acute Waste Quantity, in Tons: 0.0045
Waste Quantity, in Kilograms: 4.081635
Acute Waste Quantity, in Kilograms: 0
Non-Acute Waste Quantity, in Kilorgrams: 4.081635
Management Method Code: H141
Management Method Description: STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator: N
Quantity Discrepancy Indicator: N
Waste Type Discrepancy Indicator: N
Waste Density: Not reported
Waste Density Unit of Measure Code: Not reported
Waste Density Unit of Measure Description: Not reported
Form Code: Not reported
Form Code Description: Not reported
Source Code: Not reported
Source Code Description: Not reported
Waste Minimization Code: Not reported
Waste Minimization Code Description: Not reported
Consent Number: Not reported
EPA Waste Indicator: Y

Manifest Tracking Number: 018286814JJK
Waste Line Number: 6
U.S. DOT Hazardous Indicator: Y
U.S. DOT ID Number: UN1263
U.S. DOT Description: Rq, Un1263, Waste, Paint, 3 , Pgii (D001)
Non-Hazardous Waste Description: Not reported
Number of Containers: 1
Container Type Code: DM
Container Type Description: Metal drums, barrels, kegs
Waste Quantity: 126
Quantity Unit of Measure Code: P
Quantity Unit of Measure Description: Pounds
Waste Quantity, in Tons: 0.063
Acute Waste Quantity, in Tons: 0
Non-Acute Waste Quantity, in Tons: 0.063

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Waste Quantity, in Kilograms:	57.14289
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	57.14289
Management Method Code:	H141
Management Method Description:	STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	Y

Manifest Tracking Number:	018286814JJK
Waste Line Number:	7
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	NA3077
U.S. DOT Description:	Na3077, Waste, Hazardous Waste, Solid, N.O.S. (Lead), 9 , Pgiii
Non-Hazardous Waste Description:	Not reported
Number of Containers:	1
Container Type Code:	DM
Container Type Description:	Metal drums, barrels, kegs
Waste Quantity:	110
Quantity Unit of Measure Code:	P
Quantity Unit of Measure Description:	Pounds
Waste Quantity, in Tons:	0.055
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.055
Waste Quantity, in Kilograms:	49.88665
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	49.88665
Management Method Code:	H141
Management Method Description:	STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	Y

Manifest Tracking Number:	018286814JJK
Waste Line Number:	8

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	UN3267
U.S. DOT Description:	Un3267, Corrosive Liquid, Basic, Organic, N.O.S.,8, Pgii
Non-Hazardous Waste Description:	Not reported
Number of Containers:	1
Container Type Code:	DF
Container Type Description:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	8
Quantity Unit of Measure Code:	P
Quantity Unit of Measure Description:	Pounds
Waste Quantity, in Tons:	0.004
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.004
Waste Quantity, in Kilograms:	3.6281202
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	3.6281202
Management Method Code:	H141
Management Method Description:	STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	Y

Manifest Tracking Number:	018286814JJK
Waste Line Number:	9
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	UN3098
U.S. DOT Description:	Un3098, Waste, Oxidizing Liquid, Corrosive, N.O.S. (Hydrogen Peroxide), 5.1 (8), Pgii
Non-Hazardous Waste Description:	Not reported
Number of Containers:	1
Container Type Code:	DF
Container Type Description:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	6
Quantity Unit of Measure Code:	P
Quantity Unit of Measure Description:	Pounds
Waste Quantity, in Tons:	0.003
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.003
Waste Quantity, in Kilograms:	2.72109
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	2.72109
Management Method Code:	H141
Management Method Description:	STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	Y

Manifest Tracking Number:	018286814JJK
Waste Line Number:	10
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	UN1263
U.S. DOT Description:	Un1263, Waste, Paint, 3 , Pgiii
Non-Hazardous Waste Description:	Not reported
Number of Containers:	1
Container Type Code:	DF
Container Type Description:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	8
Quantity Unit of Measure Code:	P
Quantity Unit of Measure Description:	Pounds
Waste Quantity, in Tons:	0.004
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.004
Waste Quantity, in Kilograms:	3.6281202
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	3.6281202
Management Method Code:	H141
Management Method Description:	STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	Y

Manifest Tracking Number:	018286814JJK
Waste Line Number:	11
U.S. DOT Hazardous Indicator:	N
U.S. DOT ID Number:	Not reported
U.S. DOT Description:	Not reported
Non-Hazardous Waste Description:	OIL SOAKED RAGS
Number of Containers:	3
Container Type Code:	CF
Container Type Description:	Fiber or plastic boxes, cartons, cases
Waste Quantity:	1200

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Quantity Unit of Measure Code:	P
Quantity Unit of Measure Description:	Pounds
Waste Quantity, in Tons:	0.6
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.6
Waste Quantity, in Kilograms:	544.218
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	544.218
Management Method Code:	H141
Management Method Description:	STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	N

Manifest Tracking Number:	018286814JJK
Waste Line Number:	12
U.S. DOT Hazardous Indicator:	N
U.S. DOT ID Number:	Not reported
U.S. DOT Description:	Not reported
Non-Hazardous Waste Description:	DIESEL FUEL WITH WATER
Number of Containers:	2
Container Type Code:	DM
Container Type Description:	Metal drums, barrels, kegs
Waste Quantity:	814
Quantity Unit of Measure Code:	P
Quantity Unit of Measure Description:	Pounds
Waste Quantity, in Tons:	0.407
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.407
Waste Quantity, in Kilograms:	369.16122
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	369.16122
Management Method Code:	H141
Management Method Description:	STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Consent Number:	Not reported
EPA Waste Indicator:	N
Manifest Tracking Number:	018286814JJK
Waste Line Number:	13
U.S. DOT Hazardous Indicator:	N
U.S. DOT ID Number:	Not reported
U.S. DOT Description:	Not reported
Non-Hazardous Waste Description:	CONCRETE CUTTING FLUID
Number of Containers:	1
Container Type Code:	DM
Container Type Description:	Metal drums, barrels, kegs
Waste Quantity:	415
Quantity Unit of Measure Code:	P
Quantity Unit of Measure Description:	Pounds
Waste Quantity, in Tons:	0.2075
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.2075
Waste Quantity, in Kilograms:	188.20872
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	188.20872
Management Method Code:	H141
Management Method Description:	STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	N

Click this hyperlink while viewing on your computer to access
37 additional US EManifest: record(s) in the EDR Site Report.

NY MANIFEST:

EPA ID:	OH3800015379
Country:	USA
Name:	NASA LEWIS RESEARCH CENTER
Address:	6100 COLUMBUS AVE
Address 2:	Not reported
City,State,Zip:	SANDUSKY, OH 44870
Zip 4:	Not reported
Location Address 1:	21000 BROOKPARK ROAD
Location Address 2:	Not reported
Location City,State,Zip:	CLEVELAND, OH 44135
Location Zip 4:	Not reported
Facility Status:	Not reported
Total Tanks:	Not reported
Code:	BP

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Mailing:

Mailing Name:	NASA LEWIS RESEARCH CENTER
Mailing Contact:	ROBERT STUART
Mailing Address 1:	21000 BROOKPARK ROAD
Mailing Address 2:	Not reported
Mailing City,State,Zip:	CLEVELAND, OH 44135
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2164333096

Manifest Data:

Document ID:	NYH1407312
Manifest Status:	Not reported
Trans1 State ID:	XS46025PA
Year:	2004
Trans2 State ID:	Not reported
Generator Ship Date:	08/31/2004
Trans1 Recv Date:	08/31/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09/01/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	OH3800015379
Trans1 EPA ID:	PAD987347515
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD049836679
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code 1:	2,4-DINITROTOLUENE
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	44760
Units:	Pounds
Number of Containers:	001
Container Type:	Dump truck
Handling Method:	Landfill
Specific Gravity:	01.00

Document ID:	NYH1407321
Manifest Status:	Not reported
Trans1 State ID:	XW11316PA
Year:	2004

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Trans2 State ID:	Not reported
Generator Ship Date:	08/31/2004
Trans1 Recv Date:	08/31/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09/01/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	OH3800015379
Trans1 EPA ID:	PAD987347515
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD049836679
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code 1:	2,4-DINITROTOLUENE
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	47160
Units:	Pounds
Number of Containers:	001
Container Type:	Dump truck
Handling Method:	Landfill
Specific Gravity:	01.00
Document ID:	NYH1407339
Manifest Status:	Not reported
Trans1 State ID:	7001AHNY
Year:	2004
Trans2 State ID:	Not reported
Generator Ship Date:	08/31/2004
Trans1 Recv Date:	08/31/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09/01/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	OH3800015379
Trans1 EPA ID:	NYD046765574
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD049836679
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code 1:	2,4-DINITROTOLUENE
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	45940
Units:	Pounds
Number of Containers:	001
Container Type:	Dump truck
Handling Method:	Landfill
Specific Gravity:	01.00
Document ID:	NYH1407348
Manifest Status:	Not reported
Trans1 State ID:	XS19525PA
Year:	2004
Trans2 State ID:	Not reported
Generator Ship Date:	08/31/2004
Trans1 Recv Date:	08/31/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09/01/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	OH3800015379
Trans1 EPA ID:	PAD987347515
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD049836679
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code 1:	2,4-DINITROTOLUENE
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	46580
Units:	Pounds

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Number of Containers:	001
Container Type:	Dump truck
Handling Method:	Landfill
Specific Gravity:	01.00
Document ID:	NYH1407357
Manifest Status:	Not reported
Trans1 State ID:	2305B7NY
Year:	2004
Trans2 State ID:	Not reported
Generator Ship Date:	08/31/2004
Trans1 Recv Date:	08/31/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09/01/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	OH3800015379
Trans1 EPA ID:	NYD046765574
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD049836679
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code 1:	2,4-DINITROTOLUENE
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	40420
Units:	Pounds
Number of Containers:	001
Container Type:	Dump truck
Handling Method:	Landfill
Specific Gravity:	01.00
Document ID:	NYH1407366
Manifest Status:	Not reported
Trans1 State ID:	7003A4NY
Year:	2004
Trans2 State ID:	Not reported
Generator Ship Date:	08/31/2004
Trans1 Recv Date:	08/31/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09/01/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Generator EPA ID:	OH3800015379
Trans1 EPA ID:	NYD046765574
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD049836679
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code 1:	2,4-DINITROTOLUENE
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	44440
Units:	Pounds
Number of Containers:	001
Container Type:	Dump truck
Handling Method:	Landfill
Specific Gravity:	01.00

Document ID:	NYH1407384
Manifest Status:	Not reported
Trans1 State ID:	2255B8NY
Year:	2004
Trans2 State ID:	Not reported
Generator Ship Date:	08/31/2004
Trans1 Recv Date:	08/31/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09/01/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	OH3800015379
Trans1 EPA ID:	NYD046765574
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD049836679
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

MGMT Method Type Code:	Not reported
Waste Code 1:	2,4-DINITROTOLUENE
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	38740
Units:	Pounds
Number of Containers:	001
Container Type:	Dump truck
Handling Method:	Landfill
Specific Gravity:	01.00
Document ID:	NYH1407411
Manifest Status:	Not reported
Trans1 State ID:	ME040860
Year:	2004
Trans2 State ID:	Not reported
Generator Ship Date:	09/02/2004
Trans1 Recv Date:	09/02/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09/03/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	OH3800015379
Trans1 EPA ID:	PAD987347515
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD049836679
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code 1:	2,4-DINITROTOLUENE
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	36260
Units:	Pounds
Number of Containers:	001
Container Type:	Dump truck
Handling Method:	Landfill
Specific Gravity:	01.00
Document ID:	NYH1407429
Manifest Status:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Trans1 State ID:	XY19620PA
Year:	2004
Trans2 State ID:	Not reported
Generator Ship Date:	09/02/2004
Trans1 Recv Date:	09/02/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09/03/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	OH3800015379
Trans1 EPA ID:	PAD987347515
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD049836679
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code 1:	2,4-DINITROTOLUENE
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	42420
Units:	Pounds
Number of Containers:	001
Container Type:	Dump truck
Handling Method:	Landfill
Specific Gravity:	01.00

Document ID:	NYH1407438
Manifest Status:	Not reported
Trans1 State ID:	PT8968DPA
Year:	2004
Trans2 State ID:	Not reported
Generator Ship Date:	08/31/2004
Trans1 Recv Date:	08/31/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09/01/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	OH3800015379
Trans1 EPA ID:	PAD987347515
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD049836679
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code 1:	2,4-DINITROTOLUENE
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	42520
Units:	Pounds
Number of Containers:	001
Container Type:	Dump truck
Handling Method:	Landfill
Specific Gravity:	01.00

Document ID:	NYA8163144
Manifest Status:	C - Completed copy
Trans1 State ID:	000000000
Year:	1989
Trans2 State ID:	000000000
Generator Ship Date:	890828
Trans1 Recv Date:	890828
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	890829
Part A Recv Date:	890901
Part B Recv Date:	890906
Generator EPA ID:	OH3800015379
Trans1 EPA ID:	OHD068913409
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD049836679
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code 1:	7-OXABICYCLO[2.2.1]HEPTANE-2,3-DICARBOXYLIC ACID (OR) ENDOTHALL
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported

NASA NEIL A ARMSTRONG TEST FACILITY (Continued) **1015735673**

Quantity:	38000
Units:	Pounds
Number of Containers:	001
Container Type:	Dump truck
Handling Method:	Landfill
Specific Gravity:	100

Click this hyperlink while viewing on your computer to access
9 additional NY MANIFEST: record(s) in the EDR Site Report.

Count: 7 records

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BLOOMINGVILLE	1005871911	AMERITECH	TAYLOR RD	44870	FINDS
SANDUSKY	U004098726	PERKINS TRANSP. BUS GARAGE	7193 TAYLOR RD	44870	OH ARCHIVE UST
SANDUSKY	1001029319	ERIE COUNTY SCHOOLS	7142 TAYLOR-COLUMBUS AVE	44870	RCRA NonGen / NLR, FINDS, ECHO
SANDUSKY	1000356434	AI RESEARCH MANUFACTURING SANDUSKY	PLUM BROOK STATION TAYLOR RD	44870	RCRA NonGen / NLR
SANDUSKY	1014625183	NASA - JOHN H. GLEN RESEARCH CENTER, PLUM BROOK STATION	PENTOLITE ROAD	44870	PCB TRANSFORMER
SANDUSKY	1016232893	AI RESEARCH MANUFACTURING	PLUM BROOK STATION TAYLOR RD	44870	FINDS, ECHO
SANDUSKY	S128164411		604 TAYLOR AVENUE	44870	OH LEAD

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

Lists of Federal NPL (Superfund) sites

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: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 09/03/2024
Next Scheduled EDR Contact: 10/07/2024
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: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 09/03/2024
Next Scheduled EDR Contact: 10/07/2024
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

Lists of Federal Delisted NPL sites

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: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 09/03/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

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: 03/25/2024
Date Data Arrived at EDR: 03/26/2024
Date Made Active in Reports: 06/24/2024
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 06/25/2024
Next Scheduled EDR Contact: 10/07/2024
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: 07/24/2024
Date Data Arrived at EDR: 08/01/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/03/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

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: 07/24/2024
Date Data Arrived at EDR: 08/01/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/03/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

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: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

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: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
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: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly 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). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
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: 02/14/2024
Date Data Arrived at EDR: 02/16/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 48

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 07/31/2024
Next Scheduled EDR Contact: 11/18/2024
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: 07/24/2024
Date Data Arrived at EDR: 08/08/2024
Date Made Active in Reports: 08/15/2024
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/08/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

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: 07/24/2024
Date Data Arrived at EDR: 08/08/2024
Date Made Active in Reports: 08/15/2024
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/08/2024
Next Scheduled EDR Contact: 12/02/2024
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: 06/11/2024
Date Data Arrived at EDR: 06/17/2024
Date Made Active in Reports: 09/04/2024
Number of Days to Update: 79

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/17/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

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: 07/24/2024
Next Scheduled EDR Contact: 11/11/2024
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: 04/19/2024
Date Data Arrived at EDR: 05/01/2024
Date Made Active in Reports: 07/25/2024
Number of Days to Update: 85

Source: Ohio EPA
Telephone: 614-644-3538
Last EDR Contact: 07/30/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Semi-Annually

Lists of state and tribal landfills and solid waste disposal facilities

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: 06/28/2024
Date Data Arrived at EDR: 06/28/2024
Date Made Active in Reports: 07/02/2024
Number of Days to Update: 4

Source: Ohio Environmental Protection Agency
Telephone: 614-644-2621
Last EDR Contact: 06/28/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Semi-Annually

Lists of state and tribal leaking storage tanks

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: 08/01/2024
Date Data Arrived at EDR: 08/01/2024
Date Made Active in Reports: 08/06/2024
Number of Days to Update: 5

Source: Department of Commerce
Telephone: 614-752-8200
Last EDR Contact: 07/31/2024
Next Scheduled EDR Contact: 11/18/2024
Data Release Frequency: Quarterly

LAST: Leaking Aboveground Storage Tank Listing
Suspected/confirmed release from Aboveground storage tank sites.

Date of Government Version: 08/01/2024
Date Data Arrived at EDR: 08/01/2024
Date Made Active in Reports: 08/06/2024
Number of Days to Update: 5

Source: Department of Commerce
Telephone: 614-752-7928
Last EDR Contact: 07/31/2024
Next Scheduled EDR Contact: 11/18/2024
Data Release Frequency: N/A

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

Date of Government Version: 05/07/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

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

Date of Government Version: 05/07/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
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: 05/07/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
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: 04/11/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
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: 05/07/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
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: 05/07/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
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: 05/07/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
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: 05/07/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
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

Lists of state and tribal registered storage tanks

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

Date of Government Version: 03/15/2024
Date Data Arrived at EDR: 03/19/2024
Date Made Active in Reports: 06/17/2024
Number of Days to Update: 90

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 08/01/2024
Next Scheduled EDR Contact: 10/14/2024
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: 05/03/2024
Date Data Arrived at EDR: 05/07/2024
Date Made Active in Reports: 08/02/2024
Number of Days to Update: 87

Source: Department of Commerce
Telephone: 614-752-8200
Last EDR Contact: 08/01/2024
Next Scheduled EDR Contact: 11/18/2024
Data Release Frequency: Quarterly

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

Date of Government Version: 10/28/2021
Date Data Arrived at EDR: 10/28/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 88

Source: Department of Commerce
Telephone: 614-752-7037
Last EDR Contact: 07/18/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Quarterly

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: 05/14/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
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: 05/14/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
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: 05/14/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
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: 05/14/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
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: 05/14/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

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: 05/14/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
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: 05/14/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
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: 04/11/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
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: 04/19/2024
Date Data Arrived at EDR: 05/01/2024
Date Made Active in Reports: 07/25/2024
Number of Days to Update: 85

Source: Ohio EPA
Telephone: 614-644-2306
Last EDR Contact: 07/30/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Semi-Annually

INST CONTROL: Sites with Institutional Engineering Controls

A database that tracks properties with institutional controls.

Date of Government Version: 04/19/2024
Date Data Arrived at EDR: 05/01/2024
Date Made Active in Reports: 07/25/2024
Number of Days to Update: 85

Source: Ohio Environmental Protection Agency
Telephone: 614-644-2306
Last EDR Contact: 07/30/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Semi-Annually

Lists of 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: 09/10/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Varies

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

Date of Government Version: 04/19/2024
Date Data Arrived at EDR: 05/01/2024
Date Made Active in Reports: 07/25/2024
Number of Days to Update: 85

Source: Ohio EPA, Voluntary Action Program
Telephone: 614-728-1298
Last EDR Contact: 07/30/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Semi-Annually

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: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

Lists of state and tribal brownfield 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: 06/04/2024
Date Data Arrived at EDR: 06/05/2024
Date Made Active in Reports: 09/03/2024
Number of Days to Update: 90

Source: Ohio EPA
Telephone: 614-644-3748
Last EDR Contact: 09/04/2024
Next Scheduled EDR Contact: 12/16/2024
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: 06/10/2024
Date Data Arrived at EDR: 06/11/2024
Date Made Active in Reports: 09/04/2024
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/11/2024
Next Scheduled EDR Contact: 12/23/2024
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: 05/01/2024
Date Data Arrived at EDR: 06/05/2024
Date Made Active in Reports: 09/03/2024
Number of Days to Update: 90
Source: Ohio EPA
Telephone: 614-644-3749
Last EDR Contact: 09/04/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: No Update Planned

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

Date of Government Version: 04/03/2024
Date Data Arrived at EDR: 04/05/2024
Date Made Active in Reports: 04/08/2024
Number of Days to Update: 3
Source: Ohio EPA
Telephone: 614-728-5357
Last EDR Contact: 06/26/2024
Next Scheduled EDR Contact: 10/14/2024
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: 07/22/2024
Next Scheduled EDR Contact: 11/04/2024
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: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
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: 07/18/2024
Next Scheduled EDR Contact: 11/04/2024
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: 05/20/2024
Date Data Arrived at EDR: 05/21/2024
Date Made Active in Reports: 08/08/2024
Number of Days to Update: 79

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/19/2024
Next Scheduled EDR Contact: 12/02/2024
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: 04/26/2024
Date Data Arrived at EDR: 05/01/2024
Date Made Active in Reports: 07/26/2024
Number of Days to Update: 86

Source: Ohio EPA
Telephone: 614-644-2080
Last EDR Contact: 07/30/2024
Next Scheduled EDR Contact: 11/11/2024
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: 05/20/2024
Date Data Arrived at EDR: 05/21/2024
Date Made Active in Reports: 08/08/2024
Number of Days to Update: 79

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/19/2024
Next Scheduled EDR Contact: 12/02/2024
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: 05/03/2024
Date Data Arrived at EDR: 05/07/2024
Date Made Active in Reports: 08/02/2024
Number of Days to Update: 87

Source: Department of Commerce, Division of State Fire Marshal
Telephone: 614-752-7938
Last EDR Contact: 08/01/2024
Next Scheduled EDR Contact: 11/18/2024
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: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 09/03/2024
Next Scheduled EDR Contact: 10/07/2024
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: 06/14/2024
Date Data Arrived at EDR: 06/17/2024
Date Made Active in Reports: 06/24/2024
Number of Days to Update: 7

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/17/2024
Next Scheduled EDR Contact: 09/30/2024
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: 04/26/2024
Date Data Arrived at EDR: 05/01/2024
Date Made Active in Reports: 07/26/2024
Number of Days to Update: 86

Source: Ohio EPA
Telephone: 614-644-2084
Last EDR Contact: 07/30/2024
Next Scheduled EDR Contact: 11/11/2024
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: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
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: 05/13/2024
Date Data Arrived at EDR: 05/14/2024
Date Made Active in Reports: 08/08/2024
Number of Days to Update: 86

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 08/12/2024
Next Scheduled EDR Contact: 11/26/2024
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: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Varies

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: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/02/2024
Next Scheduled EDR Contact: 10/14/2024
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: 07/30/2021
Date Data Arrived at EDR: 02/03/2023
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/05/2024
Next Scheduled EDR Contact: 11/18/2024
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: 06/10/2024
Date Data Arrived at EDR: 06/17/2024
Date Made Active in Reports: 09/04/2024
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/17/2024
Next Scheduled EDR Contact: 09/30/2024
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: 07/25/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: No Update Planned

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: 08/01/2024
Next Scheduled EDR Contact: 11/11/2024
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: 12/31/2020
Date Data Arrived at EDR: 06/14/2022
Date Made Active in Reports: 03/24/2023
Number of Days to Update: 283

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/12/2024
Next Scheduled EDR Contact: 12/23/2024
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: 12/31/2022
Date Data Arrived at EDR: 11/13/2023
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 86

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/15/2024
Next Scheduled EDR Contact: 11/26/2024
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: 07/11/2024
Date Data Arrived at EDR: 07/11/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 1

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/28/2024
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: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 23

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/03/2024
Next Scheduled EDR Contact: 12/09/2024
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: 04/01/2024
Date Data Arrived at EDR: 04/17/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/28/2024
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: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 09/03/2024
Next Scheduled EDR Contact: 11/11/2024
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: 03/20/2023
Date Data Arrived at EDR: 04/04/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 66

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/02/2024
Next Scheduled EDR Contact: 10/14/2024
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: 06/26/2024
Next Scheduled EDR Contact: 10/14/2024
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: No Update Planned

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: No Update Planned

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: 06/06/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 09/04/2024
Number of Days to Update: 89

Source: Nuclear Regulatory Commission
Telephone: 301-415-0717
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/28/2024
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: 12/31/2022
Date Data Arrived at EDR: 11/27/2023
Date Made Active in Reports: 02/22/2024
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 08/27/2024
Next Scheduled EDR Contact: 12/09/2024
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: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 08/22/2024
Next Scheduled EDR Contact: 12/09/2024
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: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 08/01/2024
Next Scheduled EDR Contact: 11/11/2024
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: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 06/21/2024
Next Scheduled EDR Contact: 10/07/2024
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: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 07/23/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Quarterly

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: 03/31/2024
Date Data Arrived at EDR: 04/19/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 68

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/26/2024
Next Scheduled EDR Contact: 10/14/2024
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: 12/31/2021
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
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: 07/02/2024
Next Scheduled EDR Contact: 10/14/2024
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: 03/03/2023
Date Data Arrived at EDR: 03/03/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 98

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/24/2024
Next Scheduled EDR Contact: 11/11/2024
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: 05/08/2024
Date Data Arrived at EDR: 08/14/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 14

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/08/2024
Next Scheduled EDR Contact: 11/26/2024
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/24/2024
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 09/03/2024
Next Scheduled EDR Contact: 10/07/2024
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

MINES VIOLATIONS: MSHA Violation Assessment Data
Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 04/01/2024
Date Data Arrived at EDR: 04/04/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 99

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 07/02/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Quarterly

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: 08/06/2024
Date Data Arrived at EDR: 08/14/2024
Date Made Active in Reports: 08/15/2024
Number of Days to Update: 1

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/14/2024
Next Scheduled EDR Contact: 12/02/2024
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: 04/15/2024
Date Data Arrived at EDR: 05/22/2024
Date Made Active in Reports: 08/15/2024
Number of Days to Update: 85

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/20/2024
Next Scheduled EDR Contact: 12/02/2024
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: 08/22/2024
Next Scheduled EDR Contact: 12/02/2024
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: 06/13/2024
Date Data Arrived at EDR: 06/14/2024
Date Made Active in Reports: 09/04/2024
Number of Days to Update: 82

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 09/10/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Quarterly

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 08/23/2022
Date Data Arrived at EDR: 11/22/2022
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 98

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 08/22/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Varies

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: 08/13/2024
Date Data Arrived at EDR: 08/20/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 8

Source: EPA
Telephone: (312) 353-2000
Last EDR Contact: 08/20/2024
Next Scheduled EDR Contact: 12/09/2024
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 08/13/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 06/23/2024
Date Data Arrived at EDR: 06/28/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 06/28/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites
A listing of unexploded ordnance site locations

Date of Government Version: 09/06/2023
Date Data Arrived at EDR: 09/13/2023
Date Made Active in Reports: 12/11/2023
Number of Days to Update: 89

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/08/2024
Next Scheduled EDR Contact: 10/21/2024
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: 05/13/2024
Date Data Arrived at EDR: 05/14/2024
Date Made Active in Reports: 08/08/2024
Number of Days to Update: 86

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/13/2024
Next Scheduled EDR Contact: 11/26/2024
Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 703-603-8895
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS TRIS: List of PFAS Added to the TRI

Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-566-0250
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020
Date Data Arrived at EDR: 03/17/2021
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 601

Source: Department of Health & Human Services
Telephone: 202-741-5770
Last EDR Contact: 07/18/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits. Caveats and Limitations: Less than half of states have required PFAS monitoring for at least one of their permittees and fewer states have established PFAS effluent limits for permittees. New rulemakings have been initiated that may increase the number of facilities monitoring for PFAS in the future.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS PROJECT: NORTHEASTERN UNIVERSITY PFAS PROJECT

The PFAS Contamination Site Tracker records qualitative and quantitative data from each site in a chart, specifically examining discovery, contamination levels, government response, litigation, health impacts, media coverage, and community characteristics. All data presented in the chart were extracted from government websites, such as state health departments or the Environmental Protection Agency, and news articles.

Date of Government Version: 05/19/2023
Date Data Arrived at EDR: 04/05/2024
Date Made Active in Reports: 06/06/2024
Number of Days to Update: 62

Source: Social Science Environmental Health Research Institute
Telephone: N/A
Last EDR Contact: 09/05/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS ECHO FIRE TRAIN: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilitys name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS PT 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration?s document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-267-2675
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 12/16/2016
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 03/10/2017
Number of Days to Update: 63

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 06/27/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: No Update Planned

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 06/27/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

BIOSOLIDS: ICIS-NPDES Biosolids Facility Data
The data reflects compliance information about facilities in the biosolids program.

Date of Government Version: 04/14/2024
Date Data Arrived at EDR: 04/16/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 202-564-4700
Last EDR Contact: 07/16/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

UST FINDER: UST Finder Database
EPA developed UST Finder, a web map application containing a comprehensive, state-sourced national map of underground storage tank (UST) and leaking UST (LUST) data. It provides the attributes and locations of active and closed USTs, UST facilities, and LUST sites from states and from Tribal lands and US territories . UST Finder contains information about proximity of UST facilities and LUST sites to: surface and groundwater public drinking water protection areas; estimated number of private domestic wells and number of people living nearby; and flooding and wildfires.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/04/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 106

Source: Environmental Protection Agency
Telephone: 202-564-0394
Last EDR Contact: 08/08/2024
Next Scheduled EDR Contact: 11/18/2024
Data Release Frequency: Varies

UST FINDER RELEASE: UST Finder Releases Database
US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/31/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 79

Source: Environmental Protecton Agency
Telephone: 202-564-0394
Last EDR Contact: 08/08/2024
Next Scheduled EDR Contact: 11/18/2024
Data Release Frequency: Semi-Annually

E MANIFEST: Hazardous Waste Electronic Manifest System
EPA established a national system for tracking hazardous waste shipments electronically. This system, known as ?e-Manifest,? will modernize the nation?s cradle-to-grave hazardous waste tracking process while saving valuable time, resources, and dollars for industry and states.

Date of Government Version: 07/24/2023
Date Data Arrived at EDR: 04/18/2024
Date Made Active in Reports: 06/06/2024
Number of Days to Update: 49

Source: Environmental Protection Agency
Telephone: 833-501-6826
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Varies

PFAS: PFOA & PFOS Site Listing
PFAS have been widely used in numerous industrial and residential applications since the 1950a??s. Their stability and unique chemical properties produce waterproof, stain resistant, and nonstick qualities in products. They are found in some firefighting foams and a wide range of consumer products such as carpet treatments, non-stick cookware, water-resistant fabrics, food packaging materials, and personal care products.

Date of Government Version: 10/06/2022
Date Data Arrived at EDR: 12/12/2022
Date Made Active in Reports: 02/27/2023
Number of Days to Update: 77

Source: Ohio EPA
Telephone: 614-644-2752
Last EDR Contact: 09/06/2024
Next Scheduled EDR Contact: 12/23/2024
Data Release Frequency: Varies

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: 06/10/2024
Date Data Arrived at EDR: 06/12/2024
Date Made Active in Reports: 09/04/2024
Number of Days to Update: 84

Source: Ohio EPA
Telephone: 614-644-2270
Last EDR Contact: 09/06/2024
Next Scheduled EDR Contact: 12/23/2024
Data Release Frequency: Quarterly

ASBESTOS: Asbestos Notification Listing

A listing of notifications site locations with abatement and demolition dates.

Date of Government Version: 01/22/2024
Date Data Arrived at EDR: 01/24/2024
Date Made Active in Reports: 04/12/2024
Number of Days to Update: 79

Source: Ohio EPA
Telephone: 614-466-3770
Last EDR Contact: 07/23/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

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: 06/26/2024
Next Scheduled EDR Contact: 10/14/2024
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: 01/10/2024
Date Data Arrived at EDR: 01/31/2024
Date Made Active in Reports: 04/22/2024
Number of Days to Update: 82

Source: Ohio EPA
Telephone: 614-644-3065
Last EDR Contact: 08/01/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Varies

DRYCLEANERS: Drycleaner Facility Listing

A listing of drycleaner facility locations.

Date of Government Version: 09/03/2024
Date Data Arrived at EDR: 09/11/2024
Date Made Active in Reports: 09/13/2024
Number of Days to Update: 2

Source: Ohio EPA
Telephone: 614-644-3469
Last EDR Contact: 09/10/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Semi-Annually

FIN 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: 06/26/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Semi-Annually

FIN 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: 04/15/2024
Date Data Arrived at EDR: 04/16/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 87

Source: Ohio EPA
Telephone: 614-644-2621
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/14/2024
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: 06/11/2024
Date Data Arrived at EDR: 06/12/2024
Date Made Active in Reports: 09/04/2024
Number of Days to Update: 84

Source: Department of Health
Telephone: 614-466-3543
Last EDR Contact: 09/10/2024
Next Scheduled EDR Contact: 12/23/2024
Data Release Frequency: Quarterly

NPDES: NPDES General Permit List

General information regarding NPDES (National Pollutant Discharge Elimination System) permits.

Date of Government Version: 04/26/2024
Date Data Arrived at EDR: 05/01/2024
Date Made Active in Reports: 07/30/2024
Number of Days to Update: 90

Source: Ohio EPA
Telephone: 614-644-2031
Last EDR Contact: 07/30/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Quarterly

VAPOR: Vapor Intrusion

A listing of vapor intrusion related sites.

Date of Government Version: 06/16/2020
Date Data Arrived at EDR: 06/18/2020
Date Made Active in Reports: 09/01/2020
Number of Days to Update: 75

Source: Ohio EPA
Telephone: 614-644-2924
Last EDR Contact: 09/06/2024
Next Scheduled EDR Contact: 12/23/2024
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: 07/25/2024
Date Data Arrived at EDR: 07/29/2024
Date Made Active in Reports: 08/06/2024
Number of Days to Update: 8

Source: Ohio EPA
Telephone: 614-644-2752
Last EDR Contact: 07/24/2024
Next Scheduled EDR Contact: 11/11/2024
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: 04/30/2024
Date Data Arrived at EDR: 05/01/2024
Date Made Active in Reports: 07/26/2024
Number of Days to Update: 86

Source: Ohio EPA
Telephone: 614-644-3749
Last EDR Contact: 07/30/2024
Next Scheduled EDR Contact: 11/11/2024
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: 05/05/2024
Date Data Arrived at EDR: 05/07/2024
Date Made Active in Reports: 08/01/2024
Number of Days to Update: 86

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/06/2024
Next Scheduled EDR Contact: 11/18/2024
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/26/2024
Next Scheduled EDR Contact: 10/14/2024
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: 12/31/2019
Date Data Arrived at EDR: 11/30/2023
Date Made Active in Reports: 12/01/2023
Number of Days to Update: 1

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 07/25/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/03/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/08/2024
Next Scheduled EDR Contact: 11/26/2024
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 10/28/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 01/09/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 07/03/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 08/28/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
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 Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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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, 2010 and 2015 from the U.S. Fish and Wildlife Service.

STREET AND ADDRESS INFORMATION

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APPENDIX E

CREDENTIALS

Kelly M. MacWhinnie

Project Manager - Environmental

PROFESSIONAL EXPERIENCE

Ms. MacWhinnie is a Project Manager for Terracon Consultants, Inc., in the Cleveland, Ohio office. Ms. MacWhinnie has 12 years of experience in the environmental industry. Day-to day responsibilities include field work, report preparation, data collection and documentation, proposal preparation, project scheduling and management, and staff training.

Ms. MacWhinnie's experience includes Phase I Environmental Site Assessments; Phase II Subsurface Investigations; National Environmental Policy Act (NEPA) desktop reviews and compliance; air quality investigations and monitoring; water intrusion and mold investigations; noise surveys; Hazardous Materials Surveys; Hazardous Materials Compliance Audits; Limited Environmental Compliance Assessments (LECA); soil, wastewater, and groundwater sampling; Ohio Voluntary Action Program (VAP) Phase I ESAs and Phase II Subsurface Investigations.

PROJECT EXPERIENCE

Phase I Environmental Site Assessments –
Various Sites, United States and Puerto Rico

Conducted over one thousand Phase I ESAs for various clients (commercial, industrial, financial) in accordance with ASTM E1527, which includes evaluation of the site and adjacent properties to identify potential or existing environmental contamination. Reviewed USGS Topographic Maps, ODNR Oil/Gas Well Maps, National Wetlands Inventory (NWI) Wetlands Maps, aerial photographs, Sanborn Fire Insurance Maps, and city directories. Reviewed and interpreted Federal and State databases (CERCLIS, RCRA, ERNS, LUST, SPILLS, etc.), Interviewed site owner/manager and local government departments (fire prevention bureau, building and/or planning department, health department, and state regulatory agencies.). Prepared clear, concise and grammatically accurate reports for client review. Identified Recognized Environmental Conditions (RECs) and provided conclusions and recommendations.

National Environmental Policy Act Desktop Reviews –
Various Sites, United States

Prepared several hundred NEPA desktop reviews for various sites throughout the United States. Evaluations included a review of potential impacts to threatened and endangered species; natural areas; state, national, and tribal historic sites; NWI mapped wetlands; FEMA floodplains; and Federal Communications Commission/Federal Aviation Administration (FCC/FAA) sites. Provided project coordination as well as project management, report standardization, and review for accompanying Phase I ESAs.

Indoor Air Monitoring – Various Sites, Ohio

Provided off-hour indoor air quality monitoring at several retail establishments during site renovation activities. Maintained consistent communication with the client and subcontractors regarding project schedule. Provided weekly air quality results to the client.

EDUCATION

Associate of Applied Science, Environmental, Health and Safety Technology
Cuyahoga Community College, 2013

CERTIFICATIONS

OSHA 40-Hour HAZWOPER

OSHA 8-Hour HAZWOPER Refresher

WORK HISTORY

Terracon Consultants, Inc.
Project Manager,
July 2023-Present
Assistant Project Manager,
2022-June 2023
Project Scientist,
2016-2021

Atwell, LLC
Environmental Technician,
2012-2016

Kelly M. MacWhinnie (continued)

Water Intrusion and Mold Investigations – Various Sites, Ohio and Michigan
Completed several water intrusion and mold growth investigations at schools and commercial, retail, and senior living facilities throughout Ohio and Michigan. Projects have ranged from occupant complaints to partial and complete building investigations with documented water intrusion events. Completed visual building inspections to identify mold-impacted areas. Provided air sampling and surface sampling of suspect mold growth. Provided oversight during remediation activities and collected clearance samples upon completion. Reviewed analytical results, prepared reports, and assisted with providing recommendations to clients.

Hazardous Materials Surveys – Various Sites, Ohio
Conducted hazardous materials surveys within commercial and mixed-use buildings in Ohio. Located and inventoried potential hazardous material items, including radiation sources in smoke detectors/exit signs, mercury-containing lamps, mercury-containing switches, polychlorinated biphenyls (PCB) equipment such as light ballasts, and ozone-depleting substances (ODS; refrigerants). Provided reports to client with accurate locations & quantities.

Hazardous Materials Compliance Audits – Various Sites, Michigan
Conducted hazardous materials compliance audits to assess the need for hazardous materials use/storage permits. Included visual observations and regulatory review of site applicability to the following regulations: Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA); EPA Rule 40 Code of Federal Regulations (CFR) Part 112 (aggregate aboveground oil storage; EPA Rule 40 CFR 122.26(b)(14) (storing and/or blending of bulk fertilizers); and EPA Rule 40 CFR 165.85 (Standards for Pesticide Containment Structures).

Limited Environmental Compliance Assessments – Various Sites, Ohio
Conducted LECAs to assess the environmental regulatory compliance status of facilities. Identified federal, state, and local environmental programs that applied to the facilities. Collected information regarding the status of compliance with applicable environmental programs (i.e. Oil Pollution Prevention Act & Spill Prevention Control and Countermeasure Regulations, Clean Air Act, Clean Water Act, RCRA/CERCLA hazardous water regulations, Superfund Amendments and Reauthorization Act, and Chemical Facility Anti-Terrorism Standards). Identified potential regulatory compliance concerns that required additional investigation or corrective action.

Air Sampling and Noise Survey – Ohio
Completed air sampling and noise survey of several employees performing work tasks during an 8-hour shift at a concrete bulk plant. Collected 8-hour time weighted average personal breathing zone air samples for respirable particulates and respirable crystalline silica. Monitored employee carbon monoxide exposure utilizing ToxiPro datalogging monitor. Monitored employee noise exposure utilizing Type 2 noise dosimeter. Documented sound level measurements at fixed noise sources in work areas utilizing Type 2 sound pressure level meter. Reviewed analytical results, calculated exposure levels, and prepared report for client use.

Stacy L. Vatty

Department Manager – Environmental Services/Due Diligence

PROFESSIONAL EXPERIENCE

Ms. Vatty is a Department Manager of Due Diligence work at Terracon Consultants, Inc., in the Cleveland, Ohio office. Ms. Vatty has over 20-years of experience in the environmental, asbestos, and construction industry. Her responsibilities include proposal preparation, budgeting, scheduling and management, Authorized Project Reviewer (APR), deliverable preparation, invoicing and collections, agency negotiation and compliance, safety, staff management, staff training, and business development.

Ms. Vatty's experience includes Phase I ESAs, Phase II Subsurface Investigations, Health & Safety Plans, Tier 1 and Tier 2 Assessments, Indoor Air Quality Investigations, Asbestos Surveys, Asbestos Abatement Specifications, Abatement Oversight, Clearance Sampling, EPA Method 9 Opacity Testing, soil and groundwater sampling, Sub-slab sampling and monitoring installation of sub-slab ventilation systems, National Environmental Policy Act (NEPA) desktop reviews and compliance, UST removal and closures, and Ohio Voluntary Action Program (VAP).

PROJECT EXPERIENCE

Steelyard Commons Redevelopment – Cleveland, OH*

An Ohio VAP project in which Mrs. Vatty managed both the Construction Observation & Testing (COT) and environmental field activities for the demolition of a former steel mill and the subsequent redevelopment of the site as a retail shopping center. Daily duties included conducting safety meetings and environmental awareness on the site, oversight of construction operations, weekly job meetings, daily field reports, subcontractor coordination and direction, and sampling and testing of materials as needed.

Phase I Environmental Site Assessments - 48 States - Various Sites*

Conducted over 1,000 Phase I ESAs for various clients in accordance with ASTM E 1527, which includes: conducting a site inspection and adjacent properties to identify potential or existing environmental contamination. Reviewing USGS Topographic Maps, Regional Geological Maps, ODNR Oil/Gas Well Maps, Groundwater Resource Maps, Wetlands Maps, FEMA Maps, ODNR Water Well Maps, review and interpretation of Federal and State databases (CERCLIS, RCRA Generators, ERNS, LUST, Ohio Spills Sites, etc.), aerial photographs, Sanborn Fire Insurance Maps, Hopkins Maps, and city directories. Interview site owner/manager and local government department (fire prevention bureau, building and/or planning department, health department, etc.). Preparing clear, concise and grammatically accurate report for review by the client and financial institution. Identifying Recognized Environmental Conditions (RECs), provide conclusions and recommendations. Prepare appendices, which include site photographs, CAD drawn site plan, historical documents, and figures.

Confidential Financial Client – 7 State – Various Sites*

Provided project coordination and management with three offices as well as project management, report standardization, and review for 80-sites which required indoor air.

EDUCATION

Bachelor of Arts, Environmental Science/Geography, Edinboro University of Pennsylvania, 1998

PROFESSIONAL TRAINING

OSHA 40-Hour HAZWOPER

Asbestos Hazard Evaluation Specialist Certification - OH

Asbestos Building Inspector/ Management Planner – MI & PA

Asbestos Hazard Abatement Project Designer – OH & MI

First Aid/CPR Training

AFFILIATIONS

Commercial Real Estate Women (CREW)
Member – 2019-2020
Communications Director – 2021

WORK HISTORY

Terracon Consultants, Inc.
Department Manager
2021-Present
Group Manager - 2019-2021
Project Manager - 2015-2019

Atwell, LLC
Environmental Consultant
2010-2015

EDP Consultants, Inc.
Environmental Scientist and Senior Construction, Observation & Testing Technician,
2000-2010

* Work performed prior to joining Terracon

Stacy L. Vatty (continued)

Former Swift Cleaners – Cleveland, OH*
Provided duties associated with the following tasks in support of the initial property assessment and the impending submittal of a No Further Action (NFA) Letter and Covenant Not to Sue (CNS): Phase I Environmental Site Assessment, Phase II Environmental Site Assessment, VAP Phase II Property Assessment, VAP O&M, Asbestos Survey, and Hazardous Materials Survey.

CSU Viking Hall Block Property – Cleveland, OH*
Environmental Consultant and Asbestos Hazard Evaluation Specialist for the project Performed duties associated with the following tasks which were conducted in support of a successful CORF grant submittal: Asbestos Survey and Hazardous Materials Survey.

NASA Plum Brook Station – Sandusky, OH*
Environmental Consultant and Asbestos Hazard Evaluation Specialist for the project. Performed duties associated with the following tasks in support of demolition of on-site structures: Asbestos Survey and Hazardous Materials Survey.

Confidential Financial Client – Various Sites across the U.S.*
Provided project coordination and management with four offices as well as project management, report standardization, and review for 45 Phase I Environmental Site Assessment and National Environmental Policy Act (NEPA) desktop reviews and compliance for sites located throughout the United States.

Asbestos Survey & Abatement Project Design
Sheffield Middle School – Sheffield Village, OH
Provided project coordination, management, and conducted an Asbestos Survey and Hazardous Materials Survey of an approximately 70,000-square foot one-story building with a partial basement and multiple additions that was scheduled for demolition. Completed an Asbestos Removal Bid Document, lead mandatory contractor bid walks, attended and reviewed the bid package submittals and directed the client with how to move forward with the abatement process and oversight.

Stephen J. Conway, C.P.

Principal/Environmental Department Manager

PROFESSIONAL EXPERIENCE

Mr. Conway is the Environmental Department Manager in Terracon's Cleveland Ohio Office. With approximately 25 years of industry experience, Mr. Conway has extensive environmental consulting experience managing various types of projects ranging from environmental site assessments of small residential and commercial properties to subsurface investigations and remediation of large industrial brownfields and petroleum refineries. His experience includes conducting and managing all aspects of Phase I Environmental Site Assessments, Phase II Subsurface Investigations, human health-based risk assessments, risk-based corrective action, Underground Storage Tank (UST) assessments and closures, TSCA PCB cleanup oversight, risk-based corrective actions, remediation design and implementation, and geophysical surveys.

Mr. Conway has managed environmental-related technical and planning aspects of brownfield redevelopment projects, and – as the Certified Professional of record – has submitted multiple No Further Action letters under the Ohio EPA Voluntary Action Program in order to obtain a Covenant Not to Sue. Mr. Conway has successfully secured grant funding for clients through brownfield financing programs and has managed the execution of grant funds during remediation and other phases of redevelopment projects. Mr. Conway also has extensive relationships with regulatory agencies and representatives responsible for securing various funding mechanisms.

PROJECT EXPERIENCE

Cleveland State University Viking Hall – Cleveland, OH

Acted as the Ohio EPA VAP Certified Professional of record for the project and worked with Cuyahoga County (Applicant) and Cleveland State University to secure and manage the grant funding for the project. The project involved the preparation of a Clean Ohio Revitalization Fund (CORF) grant application and the management of the $2 million awarded grant for the redevelopment of a 1.7-acre brownfield Property located in downtown Cleveland. Mr. Conway managed all aspects of the grant implementation and various environmental studies, which included a VAP Phase I Property Assessment, a VAP Phase II Property Assessment, an Asbestos Survey and Regulated Materials Survey, Asbestos Design Documents, a Geophysical Survey, and a Remedial Action Plan. Mr. Conway also helped facilitate public meetings and weekly progress meetings for the project.

Former Swift Cleaners Redevelopment – Cleveland, OH

Acted as the VAP Certified Professional of record for the project and managed all assessment and remediation activities conducted at the Property. The following activities were completed under the direction of Mr. Conway, in support of a No Further Action submittal: VAP Phase I and

EDUCATION

Bachelor of Science, Geology, Bowling Green State University, 1996

REGISTRATIONS/ CERTIFICATIONS

Ohio EPA VAP Certified Professional #319 (Originally Certified 2009)

OSHA 40-Hour HAZWOPER

Science Regulation & Case Studies – Indoor Vapor Intrusion Pathway Training

First Aid / CPR Training

AFFILIATIONS

Urban Land Institute – Cleveland

NAIOP – Northern Ohio

Society of Marketing Professional Services – Northern Ohio

National Groundwater Association

WORK HISTORY

Terracon Consultants, Inc.
Environmental Department Manager
April 2017 – Present

Langan Engineering and Environmental Consultants
Senior Project Manager, 2015 – 2017

Atwell, LLC
Project Manager, 2007 – 2015

Delta Consultants, Inc.
Project Manager, 2002 – 2007

Phase II Property Assessments, Risk Assessment, remediation, implementation of engineering and institutional controls, completion of an Operation and Maintenance (O&M) Plan, and O&M sampling oversight.

Former Burns Cold Forge Facility – Minerva, OH
Mr. Conway acted in a supporting role for the submittal of an NFA through the Ohio EPA VAP. Responsibilities included preparing a Phase I Property Assessment, Phase II Property Assessment, Human Health Risk Assessment, Operations and Maintenance Plan, and Risk Mitigation Plan for the facility. Due to the historic use of the property, significant quantities of heavy end petroleum contamination were encountered both in the soil and as a non-aqueous phase liquid (NAPL). Mr. Conway was also involved with a TSCA self-implementing cleanup of PCB-contaminated soil which was encountered during the subsurface investigation activities.

City of Painesville Parks and Cemeteries Site – Painesville, OH
Managed corrective action activities at the site in support of a Bureau of Underground Storage Tank Regulations (BUSTR) NFA. The project involved completing a BUSTR Tier 1 Investigation, a Tier 1 Delineation, Tier 2 Evaluation, and ongoing groundwater monitoring. The NFA was granted following successful groundwater modeling and risk assessment, avoiding the need to complete any soil or groundwater remediation.

Union Metals – North Canton, OH
Currently providing VAP Certified Professional services for Operations and Maintenance activities related to ongoing assessment and remediation at a large industrial property located in North Canton, Ohio. The activities include groundwater monitoring for the presence of arsenic, free-product recovery/removal, data evaluation, and annual Operation and Maintenance reporting to the Ohio EPA. Ongoing stormwater sampling and quarterly visual inspections are also being conducted to meet requirements of the Ohio EPA Division of Surface Water.

Avenue Townhomes – Cleveland, OH
Provided VAP Certified Professional services for a 2-acre Property comprised of Phase 2 and Phase 3 of the Avenue Townhomes development in Cleveland, Ohio. The assessment of the Property included completing a VAP Phase I Property Assessment and VAP Phase II compliant soil, groundwater, and soil gas sampling. Elevated concentrations of metals were identified in fill material previously imported from a Cleveland area foundry. The contamination and exposure risk was addressed through soil remediation/management and the implementation of engineering and institutional controls.

Midtown Redevelopment – Cleveland, OH
Acted as Project Manager for all environmental assessment and remediation activities at the site which included the following tasks: Phase I Environmental Site Assessment, Phase II Subsurface Investigation, risk assessment, underground storage tank (UST) closure, UST assessment and remediation, soil management plan development, soil management oversight, and Vapor Intrusion Mitigation System (VIMS) consulting. Also provided client with upfront grant funding support and Ohio EPA VAP consulting.

Stephen J. Conway, C.P. (continued)

Retail Redevelopment Remediation Project – Marion, OH
Mr. Conway acted as Project Manager for UST corrective action project which involved the assessment and remediation of chlorinated solvents in groundwater within fractured bedrock. Performed subsurface investigation activities at the Property which included groundwater monitoring well installation, bioremediation injection point installation, aquifer testing (slug testing and pump testing), and data collection of natural attenuation parameters.

Bulk Petroleum Terminal – Zionsville, IN
Mr. Conway was responsible for managing the operation and maintenance of a soil vapor extraction (SVE)/Pump and Treat (P&T) remediation system at a major bulk plant/terminal in Indianapolis, Indiana. Also developed and implemented a subsurface investigation work plan involving cone penetrometer technology for the cost-effective delineation of petroleum hydrocarbons at the terminal. Mr. Conway was also responsible for subcontractor oversight, remediation system design assistance, and data evaluation which involved soil characterization, detailed cross sections, and plume delineation maps.

Bridgestone/Firestone Brownfield Project – Akron, OH
The Property is comprised of 19-acres of land in Akron, Ohio. As part of completing environmental services for this brownfield redevelopment Project, Mr. Conway managed the Phase I Environmental Assessment, Phase II Subsurface Investigation, Asbestos Survey and abatement coordination assistance, Regulated Materials Survey, Soil Management Plan, and Preliminary Risk Evaluation.

Lorain Ford Plant – Lorain, OH
Mr. Conway managed multiple phases of environmental assessment of a 16-acre portion of the former Lorain Ford Assembly Plant building and property. The assessment was performed for as part of due diligence prior to purchase by a beverage distributor and subsequent renovation. Environmental assessment activities for this Property included third party review of historical documents and reports associated with on-going Ohio EPA VAP activities being conducted at the Property; and completion of a Phase I ESA; a Phase II Subsurface Investigation; and a preliminary risk assessment.

APPENDIX F

DESCRIPTION OF TERMS AND ACRONYMS

Description of Selected General Terms and Acronyms

Term/Acronym	Description
ACM	Asbestos Containing Material. Asbestos is a naturally occurring mineral, three varieties of which (chrysotile, amosite, crocidolite) have been commonly used as fireproofing or binding agents in construction materials. Exposure to asbestos, as well as ACM, has been documented to cause lung diseases including asbestosis (scarring of the lung), lung cancer and mesothelioma (a cancer of the lung lining). Regulatory agencies have generally defined ACM as a material containing greater that one (1) percent asbestos, however some states (e.g. California) define ACM as materials having 0.1% asbestos. In order to define a homogenous material as non-ACM, a minimum number of samples must be collected from the material dependent upon its type and quantity. Homogenous materials defined as non-ACM must either have 1) no asbestos identified in all of its samples or 2) an identified asbestos concentration below the appropriate regulatory threshold. Asbestos concentrations are generally determined using polarized light microscopy or transmission electron microscopy. Point counting is an analytical method to statistically quantify the percentage of asbestos in a sample. The asbestos component of ACM may either be friable or non-friable. Friable materials, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure and have a higher potential for a fiber release than non-friable ACM. Non-friable ACM are materials that are firmly bound in a matrix by plastic, cement, etc. and, if handled carefully, will not become friable. Federal and state regulations require that either all suspect building materials be presumed ACM or that an asbestos survey be performed prior to renovation, dismantling, demolition, or other activities that may disturb potential ACM. Notifications are required prior to demolition and/or renovation activities that may impact the condition of ACM in a building. ACM removal may be required if the ACM is likely to be disturbed or damaged during the demolition or renovation. Abatement of friable or potentially friable ACM must be performed by a licensed abatement contractor in accordance with state rules and NESHAP. Additionally, OSHA regulations for work classification, worker training and worker protection will apply.
AHERA	Asbestos Hazard Emergency Response Act
AST	Aboveground Storage Tanks. ASTs are generally described as storage tanks less than 10% of which are below ground (i.e., buried). Tanks located in a basement, but not buried, are also considered ASTs. Whether, and the extent to which, an AST is regulated, is determined on a case-by-case basis and depends upon tank size, its contents and the jurisdiction of its location.
BGS	Below Ground Surface
Brownfields	State and/or tribal listing of Brownfield properties addressed by Cooperative Agreement Recipients or Targeted Brownfields Assessments.

Description of Selected General Terms and Acronyms

Term/Acronym	Description
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes. BTEX are VOC components found in gasoline and commonly used as analytical indicators of a petroleum hydrocarbon release.
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act (a.k.a. Superfund). CERCLA is the federal act that regulates abandoned or uncontrolled hazardous waste sites. Under this Act, joint and several liability may be imposed on potentially responsible parties for cleanup-related costs.
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System. An EPA compilation of sites having suspected or actual releases of hazardous substances to the environment. CERCLIS also contains information on site inspections, preliminary assessments and remediation of hazardous waste sites. These sites are typically reported to EPA by states and municipalities or by third parties pursuant to CERCLA Section 103.
CESQG	Conditionally Exempt Small Quantity Generators
CFR	Code of Federal Regulations
CREC	Controlled Recognized Environmental Condition is defined in ASTM E1527-21 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). A condition considered by the environmental professional to be a controlled recognized environmental condition shall be listed in the findings section of the Phase I Environmental Site Assessment report, and as a recognized environmental condition in the conclusions section of the Phase I Environmental Site Assessment report."
DOT	U.S. Department of Transportation
EPA	U.S. Environmental Protection Agency
ERNS	Emergency Response Notification System. An EPA-maintained federal database which stores information on notifications of oil discharges and hazardous substance releases in quantities greater than the applicable reportable quantity under CERCLA. ERNS is a cooperative data-sharing effort between EPA, DOT, and the National Response Center.
ESA	Environmental Site Assessment
FRP	Fiberglass Reinforced Plastic

Description of Selected General Terms and Acronyms

Term/Acronym	Description
Hazardous Substance	As defined under CERCLA, this is (A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title; (C) any hazardous waste having characteristics identified under or listed pursuant to section 3001 of the Solid Waste Disposal Act (with some exclusions); (D) any toxic pollutant listed under section 1317(a) of Title 33; (E) any hazardous air pollutant listed under section 112 of the Clean Air Act; and (F) any imminently hazardous chemical substance or mixture with respect to which the EPA Administrator has taken action under section 2606 of Title 15. This term does not include petroleum, including crude oil or any fraction thereof which is not otherwise listed as a hazardous substance under subparagraphs (A) through (F) above, and the term include natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).
Hazardous Waste	This is defined as having characteristics identified or listed under section 3001 of the Solid Waste Disposal Act (with some exceptions). RCRA, as amended by the Solid Waste Disposal Act of 1980, defines this term as a "solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may (A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible illness; or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed."
HREC	Historical Recognized Environmental Condition is defined in ASTM E1527-21 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 residential 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). Before calling the past release a historical recognized environmental condition, the environmental professional must determine whether the past release is a recognized environmental condition at the time of the Phase I Environmental Site Assessment is conducted (for example, if there has been a change in the regulatory criteria). If the EP considers the past release to be a recognized environmental condition at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a recognized environmental condition."
IC/EC	A listing of sites with institutional and/or engineering controls in place. IC 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. EC 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.

Description of Selected General Terms and Acronyms

Term/Acronym	Description
ILP	Innocent Landowner/Operator Program
LQG	Large Quantity Generators
LUST	Leaking Underground Storage Tank. This is a federal term set forth under RCRA for leaking USTs. Some states also utilize this term.
MCL	Maximum Contaminant Level. This Safe Drinking Water concept (and also used by many states as a ground water cleanup criteria) refers to the limit on drinking water contamination that determines whether a supplier can deliver water from a specific source without treatment.
MSDS	Material Safety Data Sheets. Written/printed forms prepared by chemical manufacturers, importers and employers which identify the physical and chemical traits of hazardous chemicals under OSHA's Hazard Communication Standard.
NESHAP	National Emissions Standard for Hazardous Air Pollutants (Federal Clean Air Act). This part of the Clean Air Act regulates emissions of hazardous air pollutants.
NFRAP	Facilities where there is "No Further Remedial Action Planned," as more particularly described under the Records Review section of this report.
NOV	Notice of Violation. A notice of violation or similar citation issued to an entity, company or individual by a state or federal regulatory body indicating a violation of applicable rule or regulations has been identified.
NPDES	National Pollutant Discharge Elimination System (Clean Water Act). The federal permit system for discharges of polluted water.
NPL	The NPL is the EPA's database of uncontrolled or abandoned hazardous waste facilities that have been listed for priority remedial actions under the Superfund Program.
OSHA	Occupational Safety and Health Administration or Occupational Safety and Health Act
PACM	Presumed Asbestos-Containing Material. A material that is suspected of containing or presumed to contain asbestos but which has not been analyzed to confirm the presence or absence of asbestos.

Description of Selected General Terms and Acronyms

Term/Acronym	Description
PCB	Polychlorinated Biphenyl. A halogenated organic compound commonly in the form of a viscous liquid or resin, a flowing yellow oil, or a waxy solid. This compound was historically used as dielectric fluid in electrical equipment (such as electrical transformers and capacitors, electrical ballasts, hydraulic and heat transfer fluids), and for numerous heat and fire sensitive applications. PCB was preferred due to its durability, stability (even at high temperatures), good chemical resistance, low volatility, flammability, and conductivity. PCBs, however, do not break down in the environment and are classified by the EPA as a suspected carcinogen. 1978 regulations, under the Toxic Substances Control Act, prohibit manufacturing of PCB-containing equipment; however, some of this equipment may still be in use today.
pCi/L	picoCuries per Liter of Air. Unit of measurement for Radon and similar radioactive materials.
PLM	Polarized Light Microscopy (see ACM section of the report, if included in the scope of services)
PST	Petroleum Storage Tank. An AST or UST that contains a petroleum product.
Radon	A radioactive gas resulting from radioactive decay of naturally-occurring radioactive materials in rocks and soils containing uranium, granite, shale, phosphate, and pitchblende. Radon concentrations are measured in picoCuries per Liter of Air. Exposure to elevated levels of radon creates a risk of lung cancer; this risk generally increases as the level of radon and the duration of exposure increases. Outdoors, radon is diluted to such low concentrations that it usually does not present a health concern. However, radon can accumulate in building basements or similar enclosed spaces to levels that can pose a risk to human health. Indoor radon concentrations depend primarily upon the building's construction, design and the concentration of radon in the underlying soil and ground water. The EPA recommended annual average indoor “action level” concentration for residential structures is 4.0 pCi/l.
RCRA	Resource Conservation and Recovery Act. Federal act regulating solid and hazardous wastes from point of generation to time of disposal (‘cradle to grave”). 42 U.S.C. 6901 et seq.
RCRA Generators	The RCRA Generators database, maintained by the EPA, lists facilities that generate hazardous waste as part of their normal business practices. Generators are listed as either large (LQG), small (SQG), or conditionally exempt (CESQG). LQG produce at least 1000 kg/month of non-acutely hazardous waste or 1 kg/month of acutely hazardous waste. SQG produce 100-1000 kg/month of non-acutely hazardous waste. CESQG are those that generate less than 100 kg/month of non-acutely hazardous waste.
RCRA CORRACTS/ TSDs	The USEPA maintains a database of RCRA facilities associated with treatment, storage, and disposal (TSD) of hazardous materials which are undergoing “corrective action”. A “corrective action” order is issued when there is a release of hazardous waste or constituents into the environment from a RCRA facility.

Description of Selected General Terms and Acronyms

Term/Acronym	Description
RCRA Non-CORRACTS/ TSDs	The RCRA Non-CORRACTS/TSD Database is a compilation by the USEPA of facilities which report storage, transportation, treatment, or disposal of hazardous waste. Unlike the RCRA CORRACTS/TSD database, the RCRA Non-CORRACTS/TSD database does not include RCRA facilities where corrective action is required.
RCRA Violators List	RAATS. RCRA Administrative Actions Taken. RAATS information is now contained in the RCRIS database and includes records of administrative enforcement actions against facilities for noncompliance.
RCRIS	Resource Conservation and Recovery Information System, as defined in the Records Review section of this report.
REC	Recognized Environmental Conditions are defined by ASTM E1527-21 as 1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment. A de minimis condition is not a recognized environmental condition.
SCL	State "CERCLIS" List (see SPL /State Priority List, below).
SPCC	Spill Prevention, Control and Countermeasures. SPCC plans are required under federal law (Clean Water Act and Oil Pollution Act) for any facility storing petroleum in tanks and/or containers of 55-gallons or more that when taken in aggregate exceed 1,320 gallons. SPCC plans are also required for facilities with underground petroleum storage tanks with capacities of over 42,000 gallons. Many states have similar spill prevention programs, which may have additional requirements.
SPL	State Priority List. State list of confirmed sites having contamination in which the state is actively involved in clean up activities or is actively pursuing potentially responsible parties for clean up. Sometimes referred to as a State "CERCLIS" List.
SQG	Small Quantity Generator
SWF/LF	State and/or Tribal database of Solid Waste/Landfill facilities. The database information may include the facility name, class, operation type, area, estimated operational life, and owner.
TPH	Total Petroleum Hydrocarbons
TRI	Toxic Release Inventory. Routine EPA report on releases of toxic chemicals to the environment based upon information submitted by entities subject to reporting under the Emergency Planning and Community Right to Know Act.

Description of Selected General Terms and Acronyms

Term/Acronym	Description
TSCA	Toxic Substances Control Act. A federal law regulating manufacture, import, processing and distribution of chemical substances not specifically regulated by other federal laws (such as asbestos, PCBs, lead-based paint and radon). 15 U.S.C 2601 et seq.
USACE	United States Army Corps of Engineers
USC	United States Code
USGS	United States Geological Survey
USNRCS	United States Department of Agriculture-Natural Resource Conservation Service
UST	Underground Storage Tank. Most federal and state regulations, as well as ASTM E1527-21, define this as any tank, incl., underground piping connected to the tank, that is or has been used to contain hazardous substances or petroleum products and the volume of which is 10% or more beneath the surface of the ground (i.e., buried).
VCP	State and/or Tribal facilities included as Voluntary Cleanup Program sites.
VOC	Volatile Organic Compound
Wetlands	Areas that are typically saturated with surface or ground water that creates an environment supportive of wetland vegetation (i.e., swamps, marshes, bogs). The Corps of Engineers Wetlands Delineation Manual (Technical Report Y-87-1) defines wetlands as areas inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. For an area to be considered a jurisdictional wetland, it must meet the following criteria: more than 50 percent of the dominant plant species must be categorized as Obligate, Facultative Wetland, or Facultative on lists of plant species that occur in wetlands; the soil must be hydric; and, wetland hydrology must be present. The federal Clean Water Act which regulates "waters of the US," also regulates wetlands, a program jointly administered by the USACE and the EPA. Waters of the U.S. are defined as: (1) waters used in interstate or foreign commerce, including all waters subject to the ebb and flow of tides; (2) all interstate waters including interstate wetlands; (3) all other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, etc., which the use, degradation, or destruction could affect interstate/ foreign commerce; (4) all impoundments of waters otherwise defined as waters of the U. S., (5) tributaries of waters identified in 1 through 4 above; (6) the territorial seas; and (7) wetlands adjacent to waters identified in 1 through 6 above. Only the USACE has the authority to make a final wetlands jurisdictional determination.