

Phase I Environmental Site Assessment

Naalehu Wastewater Treatment Plant (WWTP)

Mamalahoa Highway
Naalehu, County of Hawai'i, Hawai'i 96772

Prepared for
County of Hawai'i Wastewater Division
108 Railroad Road
Hilo, Hawai'i 96720

October 20, 2017



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Executive Summary

Brown and Caldwell (BC) performed a Phase I Environmental Site Assessment (ESA) for the property located south of Mamalahoa Highway in Naalehu, Hawai'i County, Hawai'i 96772 (target property). This Phase I ESA is intended to serve the County of Hawai'i as an appropriate, commercially prudent, and reasonable inquiry regarding the potential for recognized environmental conditions (RECs) in connection with the target property. The site reconnaissance was conducted by Caitlin Shannon of BC on June 2, 2017.

Property Description

The target property consists of approximately 13 acres of irregularly shaped pasture land, former livestock farm land, and two existing residences. The target property is located in the vicinity of latitude 19.062695 degrees north and longitude 155.576431 degrees west in Naalehu, Hawai'i County, Hawai'i 96772. Access to the target property is from the northwest via Mamalahoa Highway. See Figure 1 for a Target Property Map.

Site and Area Reconnaissance

At the time of the site reconnaissance, the property consisted of two existing residences, former livestock farm land, and pasture land. The surface sloped gently toward the southeast. Dilapidated asphalt driveways and unpaved, dirt roadways were present onsite. Electric utilities were observed on the property.

BC's site reconnaissance revealed evidence of an aboveground storage tank (AST) on the target property. The AST contained water used for onsite farming activities.

The target property contains three structures. The first structure, located on the western portion of the target property, is a one-story wood residence that was built in approximately 1975. The second structure, located on the western portion of the target property, is a one-story wood residence that was built in approximately 1975. The third structure, located on the central portion of the target property, is a one-story vinyl-sided trailer.

In addition to the list of structures, there was abandoned farm equipment, abandoned cars, and abandoned fencing on the central and western portions of the target property. There was no evidence of spills or leaks associated with the storage of these items.

The target property is bordered to the north by Mamalahoa Highway, beyond which is pasture land and residential properties. The target property is bordered to the east by pasture land. The target property is bordered to the south by pasture land. The target property is bordered to the west by Naalehu School and residential properties.

BC's site and area reconnaissance indicated no RECs to the target property.

Physical Setting

According to the United States Geological Survey (USGS) topographic map Naalehu, Hawai'i dated 2013 the elevation of the target property is approximately 603 feet above mean sea level (amsl). The target property slopes gently toward the east with a general topographic gradient to the east.

The depth to groundwater and information regarding the regional groundwater flow for wells located in the vicinity of the target property was not reported by Environmental Data Resources, Inc. (EDR). The depth to groundwater in the vicinity of the target property is assumed to be located within 500 to 600 feet of the ground surface based on BC's local experience in the general area. The shallow hydrogeologic gradient flow is assumed to mimic the local topographic gradient in the vicinity of the target property, which is generally to the east. It should be noted that hydraulic gradient may vary with depth, regional groundwater flow direction, and be influenced by seasonal changes, geology, or local groundwater pumping patterns.

Records Review

BC conducted a review of standard environmental (regulatory) records and specified historical records for the target property.

BC's review of historical aerial photographs (1954, 1965, 1978, 1985, 1992, and 2001) provided by EDR identified no RECs to the target property. The target property was shown as pasture land from 1954 to 1965. Beginning in the 1978 aerial photograph, two structures have been developed on the western portion of the target property.

Based on the review of readily available historical aerial photographs, the surrounding areas consisted primarily of Mamalahoa Highway, pasture land, and residences to the north; pasture land to the east and south; and Naalehu School and residences to the west of the target property in all aerial photographs. BC identified no previous use of the adjoining properties that would represent a REC to the target property during the historical aerial photograph review.

BC's review of historical city directories (1992, 1995, 1999, 2003, 2008, and 2013) provided by EDR identified no RECs to the target property. The target property was not listed in any of the historical city directories searched by EDR. Roadways searched in the directories near the target property had commercial and individual residential listings.

BC's review of historical topographic maps (1921, 1924, 1962, 1981, 1995, and 2013) indicated that the target property was historically pasture land with a railway in the northern portion of the target property oriented west to east. Properties in the general vicinity of the target property included pasture land, residences, Naalehu School, and Mamalahoa Highway. BC identified no previous use of the target property and/or adjoining properties that would represent an on-site or off-site REC during the historical topographic map review.

According to EDR, Sanborn maps are not available for the target property.

BC's review of readily available regulatory information provided by EDR indicated no on-site or off-site RECs to the target property. Results of the search of the various applicable government agencies by EDR resulted in three facilities within the minimum search distance (msd) of the target property. The following facilities were identified within 1,000 feet of the target property during BC's review of the EDR Report:

- **Fast Fuels II**
95-5591 Mamalahoa Highway
Distance: 392 feet
Direction: West-Southwest
Database listed on: LUST, UST, and Financial Assurance
Topographic Relationship: Cross-gradient

Information in the leaking underground storage tank (LUST), UST, and Financial Assurance database indicates the facility has three operational USTs containing gasohol and diesel fuel that were installed in 1999. The facility also has four permanently out-of-use USTs containing diesel and gasoline that were closed in 1998. The facility reported a LUST incident in 1999; however, subsequently received a No Further Action (NFA) status in 1999. Based on regulatory status and topographic relationship, this facility does not represent a REC to the target property.

No indications of vapor intrusion from nearby facilities were identified.

BC found no indications of RECs resulting from the review of environmental regulatory or historical records reviews.

Interviews

The target property seller, Mr. Richard Souza Sr., could not provide an interview due to ongoing negotiations regarding the target property. Should information be received which alters the conclusions of this report, The County of Hawai'i shall be immediately notified and an addendum will be prepared.

The results of this interview identified no RECs or environmental risks regarding current or past operations at the target property.

Findings, Opinions, and Conclusions

BC performed this assessment in general conformance with the scope and limitations of the ASTM International (ASTM) Standard E 1527-13 for the target property identified above to identify any RECs in connection with the target property, including the presence, or likely presence, of any hazardous substances or petroleum products on the target property under conditions that indicate an existing release, or past release, or a material threat of release into the ground, groundwater, surface water, or structures on the target property. This assessment included an evaluation to the extent practicable of the past and present land uses at the target property and on adjacent properties.

The results of this assessment have identified no evidence of on-site or off-site RECs; however, the following housekeeping and/or developmental conditions were identified:

- BC's site reconnaissance revealed evidence of solid waste on the central, southern, and western portions of the target property in the form of debris/trash. Items observed included brush and rock piles, empty plastic drums, and miscellaneous household debris. All debris appeared to be surficial in nature.

BC's site reconnaissance also revealed evidence of abandoned farm equipment, abandoned cars, and abandoned fencing on the central and western portions of the target property. There was no evidence of spills or leaks associated with the storage of these items.

BC recommends that the debris be collected and disposed from the target property in accordance with state and local regulations. If indications of any potential regulated materials

or releases are observed during removal, BC should be contacted to determine if additional assessment is warranted.

- BC's site reconnaissance revealed evidence of hazardous materials on the western portions of the target property in the garage of one of the on-site residences in the form of motor oil containers. The identified materials were observed in their sealed, original containers and in designated storage areas. Materials appeared to be properly stored. BC did not observe any staining, odors, or evidence of a release in the vicinity of these materials.

BC recommends that the hazardous materials be removed and disposed from the target property in accordance with state and local regulations. If indications of any releases are observed during removal, BC should be contacted to determine if additional assessment is warranted.

- BC's site reconnaissance revealed evidence of an AST located on the central portion of the target property. The AST appeared to be in fair condition with some evidence of corrosion. The corrosion appeared surficial in nature and is not anticipated to adversely impact the environmental integrity of the target property.

BC recommends that the AST be removed and disposed from the target property in accordance with state and local regulations. If indications of any releases are observed during removal, BC should be contacted to determine if additional assessment is warranted.

- The target property contains three structures that were built in approximately 1975. Based on the date of construction being prior to 1978, asbestos-containing materials (ACMs) and lead-based paint (LBP) are likely present at the target property.

BC recommends that the appropriate abatement methods be followed during demolition of the target property structures.

No further assessment of the target property is recommended at this time.

BC requests notification for further discussion or evaluation of any new conditions discovered during the development of the target property.

This executive summary is presented for convenience only. While the executive summary is an integral part of the report, it should not be used in lieu of reading the entire report, including the appendices.

Section 1

Introduction

1.1 Purpose

The County of Hawai'i Incorporated (The County of Hawai'i) has retained Brown and Caldwell (BC) to perform a Phase I Environmental Site Assessment (ESA) for the property located south of Mamalahoa Highway in Naalehu, Hawai'i County, Hawai'i 96772 (target property). The target property consists of approximately 13 acres of irregularly shaped pasture land, former livestock farm land, and two existing residences. The County of Hawai'i stated that the specific reason for this Phase I ESA was to evaluate environmental conditions at the target property in support of the potential purchase of the target property. This Phase I ESA is intended to serve as an appropriate, commercially prudent, and reasonable inquiry regarding the potential for recognized environmental conditions (RECs) in connection with the target property. This Phase I ESA report is intended to satisfy "all appropriate inquiry" into the previous ownership and uses of the target property as defined under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) at Title 42 of the United States Code (U.S.C.) §9601(35)(B) and in accordance with 40 CFR Part 312, Standards and Practices for All Appropriate Inquiries; Final Rule (AAI Rule).

1.2 Scope of Services

Based on the requirements presented in the American Society for Testing and Materials (ASTM) Standard Practice E 1527-13 (ASTM E 1527-13), BC performed the following tasks as part of this Phase I ESA. At The County of Hawai'i's request, the scope of services included the following considerations to provide them with a baseline evaluation of the environmental conditions at the target property.

- **Task 1 – Records Review.** Obtained and reviewed records that identified potential RECs, historical RECs (HRECs), controlled RECs (CRECs), or *de minimis* conditions in connection with the target property. The minimum search distance (msd) followed ASTM E 1527-13 recommendations for standard and additional environmental record sources with the exception that State and municipal solid waste facilities will be extended to 1 mile. This may include a review of the target property's deed of record to identify environmental liens that may have been recorded for the target property. A 50-year Chain-of-Title report was reviewed as applicable, if provided by The County of Hawai'i.
- **Task 2 – Site Reconnaissance.** Conducted a site reconnaissance to determine the potential that a REC was present at the target property. Also, observed neighboring properties, to the degree possible, for land uses or other aspects that indicated potential RECs that could adversely affect the target property.
- **Task 3 – Interviews.** Interviewed individuals with knowledge of the target property to obtain information regarding the potential for RECs, HRECs, CRECs, or *de minimis* conditions.
- **Task 4 – Evaluation and Report Preparation.** BC prepared this report detailing the findings associated with each of the above-listed tasks.

1.3 Limiting Conditions

This Phase I ESA report has been prepared for the exclusive use of The County of Hawai'i and their assigns, in accordance with the standards of the environmental consulting industry at the time the services were performed, and in general accordance with the agreement between The County of Hawai'i and BC dated October 5, 2016. This work has been performed for the sole purpose of assisting in the evaluation of RECs associated with the target property. This Phase I ESA report is governed by the specific scope of work authorized by The County of Hawai'i and is not intended to be relied upon by any other party. The findings presented herein are based upon observations of target property conditions as of the date the assessment was performed and a review of reasonably ascertainable standard records sources. The findings and conclusions presented herein should not be assumed to apply to conditions or operating practices on this property occurring subsequent to BC's actual site reconnaissance.

The findings of the Phase I ESA, as represented within this report, must be viewed in recognition of certain limiting conditions. The scope of work commissioned for this project does not represent an exhaustive study, but rather a reasonable inquiry, consistent with good commercial practice, in general accordance with ASTM E 1527-13. In the course of this assessment, BC has relied on information provided by outside parties, such as regulatory agencies and interview sources. BC has made no independent investigation as to the validity, completeness, or accuracy of such information provided by third-party sources. For the purposes of this assessment, such third-party information is assumed to be accurate unless contradictory evidence is noted and BC does not express or imply any warranty regarding information provided by third-party sources. This Phase I ESA report makes no representation that environmental contamination does not exist at this target property beyond that described in this report.

In the following paragraphs italicized terms refer to specific definitions set forth in Section 3.2 of the ASTM Standard. The purpose of this Phase I ESA is to identify, to the extent feasible, pursuant to the scope and limitation of the guidelines set forth in the ASTM E 1527-13, RECs, HRECs, CRECs, or *de minimis* conditions in connection with the target property.

The term REC is defined by ASTM E 1527-13 as:

The presence or likely presence of any *hazardous substances or petroleum products* in, on, or at the *property*: (1) due to release to the environment; (2) under conditions indicative of a *release to the environment*; or (3) under conditions that pose a *material threat* of a future *release to the environment*. *De minimis conditions* are not *recognized environmental conditions*.

The term HREC is defined by ASTM E 1527-13 as:

A past *release of any hazardous substances or petroleum products* that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restriction, *activity and use limitations, institutional control, 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 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*.

The term CREC is defined by ASTM E 1527-13 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 substance 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.

The term *de minimis condition* is defined by ASTM E 1527-13 as:

A condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis conditions* are not *recognized environmental conditions* or *controlled recognized environmental conditions*.

The term *reasonably ascertainable* is defined by ASTM E 1527-13 as:

Information that is *publicly available* to anyone upon request, obtainable from its source within reasonable time and cost constraints, and *practically reviewable*.

The term *practically reviewable* is defined by ASTM E 1527-13 as:

Information is provided by the source in a manner and in a form that, upon examination, yields information relevant to the property without the need for extraordinary analysis of irrelevant data. The form of the information shall be such that the user can review the records for a limited geographic area. Records that cannot be feasibly retrieved by reference to the location of the property or a geographic area in which the property is located are not generally *practically reviewable*.

Reasonable time and cost means that the information will be provided by the source within 20 calendar days of receiving a written, telephone, or in-person request at no more than a nominal cost intended to cover the source's cost of retrieving and duplicating the information.

1.4 Exceptions or Deviations from Standard

Exceptions or deviations for this assessment include the following:

- An Environmental LienSearch was not conducted as part of this assessment. BC concludes that information obtained through an Environmental LienSearch would not materially alter the conclusions or recommendations of this report.
- The msd for State and municipal solid waste facilities in Section 4.4 was extended to 1 mile.

Section 2

User Provided Information

The 'User' is the party seeking to use ASTM E 1527-13 to complete an ESA of the target property. The User has specific obligations for completing a successful application of the Practice.

BC obtained a completed ASTM User Questionnaire from The County of Hawai'i. A copy of the completed form is included in Appendix F. The following summarizes the information provided to BC regarding the target property.

2.1 Reason for Performing Phase I ESA

The County of Hawai'i informed BC that the specific reason for this Phase I ESA was to evaluate the potential for RECs at the target property in support of the acquisition of the target property. This Phase I ESA is, therefore, intended to serve as an appropriate, commercially prudent, and reasonable inquiry regarding the potential for RECs in connection with the target property. This report will provide The County of Hawai'i an "all appropriate inquiry" into the previous ownership and uses of the target property defined under the CERCLA Title 42 of the U.S.C. §9601(35)(B), as clarified by the AAI Rule.

2.2 Commonly Known or Reasonably Ascertainable Information

Mr. Lyle Hirota of The County of Hawai'i completed the User Questionnaire and is unaware of any other commonly known or reasonably ascertainable information regarding the target property.

2.3 Property Value Comparison to Purchase Price

Mr. Hirota reported to BC in the User Questionnaire that the anticipated purchase or lease price of the target property is comparable to the assessed property value. Therefore, this information appears to indicate that the price has not been lowered as a result of potential environmental concerns and/or contamination at the target property.

2.4 Specialized Knowledge

In the User Questionnaire, Mr. Hirota indicated that he was unaware of any specialized knowledge regarding environmental conditions at the target property.

2.5 Title Records

At The County of Hawai'i's request, BC was not requested to obtain title records since these documents are obtained by the Client. The records will be provided to BC, if needed.

2.6 Environmental Liens or Activity and Use Limitations

The County of Hawai'i conducts title history research as part of their site acquisition process which would identify an environmental lien and will provide BC any information regarding environmental liens or activity use limitations, if identified. In the User Questionnaire, Mr. Hirota indicated that he was unaware of any environmental liens or activity and use limitations (AULs) at the target property.

2.7 Owner, Property Manager, or Occupant Information

The County of Hawai'i personnel indicated that Mr. Richard E. Souza is currently selling the target property. Contact information for Mr. Souza Sr. could not be provided due to ongoing negotiations regarding the target property

Section 3

Site Physical Setting Overview

3.1 Location

The target property is located south of Mamalahoa Highway in Naalehu, Hawai'i County, Hawai'i 96772. See Figure 1 for a Target Property Map.

Target Property Address: The property is not addressed. Access to the target property is from the north via Mamalahoa Highway.

Property Uses in Surrounding Area: The area surrounding the target property contains residential property in the immediate vicinity.

3.2 Current Ownership

According to information provided by The County of Hawai'i, the current owner of the target property is Richard E. Souza. According to the Hawai'i Tax Assessor's office, the property is listed as Assessor's Parcel Number (APN) number 950110030000 and 950120020000.

3.3 Physical Characteristics

3.3.1 Physical Features and Topography

Approximate Size of Target Property: approximately 13 acres

Approximate Shape of Target Property: Irregular

Target Property Topography: According to the United States Geological Survey (USGS) topographic map Naalehu, Hawai'i dated 2013, the target property slopes gently toward the east with a general topographic gradient to the east. Please refer to Figure 2, Topographic Map.

Approximate Elevation of Target Property: According to the Environmental Data Resources, Inc. (EDR) Report, surface elevation for the target property is approximately 603 feet above mean sea level (amsl).

Surface Drainage on the Target Property: The general flow direction of surface stormwater across the target property appears to be toward the east.

Floodplain: According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map Number 1551661850C, dated September 16, 1998, the target property is located in unshaded Zone X, which includes those areas outside the 500-year flood plain with less than 0.2 percent annual probability of flooding.

3.3.2 Geology and Hydrology

General Regional Geology: According to the U.S. Geological Survey, Geologic Map of the State of Hawai'i, Sheet 8 – Island of Hawai'i, dated 2007, the target property appeared to be in the Volcanic and Intrusive Rocks of the Quaternary Era, Pleistocene System, and Mauna Kea Volcano series.

Soil Conditions: According to the Soil Conservation Service information provided in the EDR Report, the soil component at the target property is Naalehu. The soil surface texture is silty clay loam and

noted to be a well-drained class of soils. Naalehu soils have a reported moderate corrosion potential to uncoated steel and are not considered hydric. From 0 to 20 inches, Naalehu soils are silty clay loam. And from 20 to 64 inches, the soils are silt loam.

Approximate Depth and Flow Direction of Groundwater: The depth to groundwater and information regarding the regional groundwater flow for wells located in the vicinity of the target property was not reported by EDR. The depth to groundwater in the vicinity of the target property is assumed to be located within 300 feet of the ground surface based on BC's local experience in the general area. The shallow hydrogeologic gradient flow is assumed to mimic the local topographic gradient in the vicinity of the target property, which is generally to the east. It should be noted that hydraulic gradient may vary with depth, regional groundwater flow direction, and be influenced by seasonal changes, geology, or local groundwater pumping patterns.

Regional Groundwater Conditions: Based on review of hydrogeologic data provided in the EDR Report, there are no federal water wells, no federal public water supply systems, and no state water wells located within 1.0 mile of the target property. No water wells appear to be located on the target property.

Section 4

Records Review

4.1 Historical Use Information

BC reviewed reasonably ascertainable standard historical sources in an attempt to develop a history of the previous uses or occupancies of the target property and surrounding area. The objective was to identify those uses or occupancies that were likely to have led to RECs, CRECs, or HRECs in connection with the target property. BC attempted to identify uses or occupancies of the target property dating from the present back to when the property was first developed, or dating to at least 1940. These sources and findings are summarized in the sections that follow.

4.1.1 Chain-of-Title Report (50 Years)/Property Deed Review/Environmental Lien Search

A Chain-of-Title Report and an environmental lien search was not obtained for this report; BC does not believe that this deviation precludes the ability to render an opinion regarding potential RECs or de minimis conditions for the target property or the conclusions or recommendations of this report.

4.1.2 Historical Aerial Photographs

BC reviewed reasonably ascertainable aerial photographs depicting development of the target property and vicinity at a minimum of five-year intervals. The quality of evaluation of aerial photographs is controlled by the photograph's scale and quality. Copies of the aerial photographs are included in Appendix D.

Resource	Date	Scale
Aerial photographs by EDR	1954	1" = 500'
	1965	1" = 500'
	1978	1" = 500'
	1985	1" = 500'
	1992	1" = 500'
	2001	1" = 500'

Review of the 1954 aerial photograph indicated that the target property contains pasture land. Vehicular access is available from the north. The area north of the target property is shown as Mamalahoa Highway, beyond which is pasture land and residential properties. The area east of the target property is shown as pasture land. The area south of the target property is shown as pasture land. The area west of the target property is shown as Naalehu School and residential properties.

The 1965 aerial photograph does not differ significantly from the 1954 aerial photograph.

The 1978 aerial photograph differs from the previous aerial photographs in that the two residences are developed on the western portion of the target property.

The 1985, 1992, and 2001 aerial photographs do not differ significantly from the 1978 aerial photograph.

BC identified no previous use of the target property and/or adjoining properties that would represent an on-site or off-site REC during the historical aerial photograph review. Aerial photographs are provided in Appendix D.

4.1.3 Historical City Directories

City directories have been published for cities and towns across the United States since the 1700s, and provide a tool for the location of individuals and businesses in three sections: a business index, a list of resident names and addresses, and a street index.

BC's review of historical city directories (1992, 1995, 1999, 2003, 2008, and 2013) provided by EDR identified no RECs to the target property. The target property was not listed in any of the historical city directories searched by EDR. Roadways searched in the directories near the target property had commercial and individual residential listings. Copies of the city directories are included in Appendix D.

4.1.4 Historical Topographic Maps

BC reviewed available historical topographic maps for the vicinity of the target property. The topographic maps were provided by EDR. Table 4-2 below provides the date, map name, and scale of the historical topographic maps reviewed. Copies of the maps are provided in Appendix D.

Table 4-2. Historical Topographic Maps			
Resource	Date	Map Name	Scale
EDR	1921	Naalehu, HI	1:31,680
	1924	Honuapo, HI	1:62,500
	1962	Naalehu, HI	1:24,000
	1981	Naalehu, HI	1:24,000
	1995	Naalehu, HI	1:24,000
	2013	Naalehu, HI	1:24,000

Review of the 1921 topographic map indicated that the target property is unimproved and contains pasture land and a railway in the northern portion, oriented west to east. Vehicular access is available from the north. The area north of the target property is shown as Mamalahoa Highway, beyond which is pasture land. The areas east, south, and west of the target property are shown as pasture land.

The 1924 topographic map differs from the 1921 topographic map in that there are structures present to the north of the target property, beyond Mamalahoa Highway.

The 1962 topographic map differs from the 1924 topographic map in that two (2) structures are located on the western portion of the target property. Structures and Naalehu School have been developed to the west of the target property. The railroad in the northern portion of the target property is no longer present.

The 1981 topographic map differs from the 1962 topographic map in that one structure beyond Mamalahoa Highway has been removed. A cemetery is present to the north, beyond Mamalahoa Highway. Two structures to the west of the target property have been removed.

The 1995 topographic map differs from the 1981 topographic map in that additional structures have been developed to the west of the target property.

The 2013 topographic map does not differ significantly from the 1995 topographic map.

BC identified no previous use of the target property and/or adjoining properties that would represent an on-site or off-site REC during the historical topographic map review. Historical topographic maps are provided in Appendix D.

4.1.5 Sanborn Fire Insurance Maps

The Sanborn Fire Insurance Map series illustrates detailed historical development in some older sections of metropolitan areas. EDR maps were requested for the target property and the adjoining properties. EDR certified that there were no maps available for the target property and vicinity. The EDR document is provided in Appendix D.

4.2 Vapor Encroachment Screening

BC performed a Tier 1 Vapor Encroachment Screening (VES) for the target property in accordance with ASTM Standard Guide E 2600-10. This VES was completed in conjunction with ASTM E 1527-13 for Phase I ESAs. The purpose of the VES was to identify vapor encroachment conditions (VECs) for the target property.

The term VEC is defined by ASTM (2010) as:

The presence or likely presence of contaminant vapors in the subsurface of the target property caused by the release of vapors from contaminated soil and/or groundwater either on or near the target property as identified by the Tier 1 or Tier 2 procedures in ASTM Standard Guide E 2600-10.

A Tier 1 VES identifies any known or suspect contaminated facilities with volatile or semi-volatile hazardous substances or petroleum products, referred to as chemicals of concern (COCs), within an area of concern (AOC). The AOC for non-petroleum hydrocarbon COCs is a 1,760-foot (1/3-mile) radius from the contaminated facility to the boundary of the target property. For facilities with petroleum hydrocarbon COCs, the AOC is a 528-foot (1/10-mile) radius. The AOC can be reduced if groundwater flow direction is known or inferred using approximate msd of a COC. A critical distance, the estimated linear distance in any direction in which COC vapors from contaminated groundwater or soil might migrate in the vadose zone to the target property, is 100 feet for non-petroleum hydrocarbon COCs and light non-aqueous phase liquid (LNAPL) petroleum hydrocarbon COCs. The critical distance for dissolved-phase petroleum hydrocarbons is 30 feet.

According to the EDR VES Report, three facilities were identified by EDR within the AOC for the target property. All facilities were eliminated as presenting a potential VEC due to distance, topographic location from the target property, or because there had been no documented soil or groundwater contamination. No facilities were identified as potential concerns to the target property. The EDR VES Report is provided in Appendix E.

4.3 Previous Investigations and Assessments

No previous environmental investigations or assessments were made available to BC for review.

4.4 Standard Environmental Regulatory Record Sources

The purpose of the records review is to obtain and review reasonably ascertainable records that will help identify RECs, CRECs, or HRECs in connection with the target property. The EDR Report with a

complete listing is included in Appendix C. Results of the search of the various applicable government agencies by EDR resulted in three facilities within the msd of the target property. The facilities identified in the EDR Report were listed in the following databases:

- **Spills:** The Spills database contains data on toxic chemical spills and other accidents reported to the National Response Center (NRC).
- **Brownfields Public Record List (BROWNFIELDS):** The Brownfields Public Record lists properties where response actions under the Georgia Hazardous Site Reuse and Redevelopment Act are planned, ongoing or completed.
- **State Hazardous Waste Sites (SHWS) Listing:** This database is a comprehensive listing of sites which are considered to be a threat to the public health and welfare by the Hawai'i Department of Health (HDOH). Further, this is the ASTM equivalent of a SHWS List.
- **Leaking Underground Storage Tanks (LUST):** The LUST list contains an inventory of reported LUST incidents.
- **Financial Assurance:** Database of records showing facility owners/operators that treat, store, or dispose of hazardous waste have sufficient funds to pay for the cleanup, closure, and post-closure care of their facilities.
- **Underground Storage Tanks (UST):** USTs are regulated under Subtitle I of Resource Conservation and Recovery Act (RCRA) and are registered with the state department responsible for administering the UST program.
- **INST CONTROL:** Facilities on the Public Record Listing that have institutional controls or limitations on use or are facilities with Risk Reduction Standards of 3, 4, and 5.
- **ENG CONTROLS:** 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 substance to enter environmental media or effect human health.

The facilities identified in the EDR Report are discussed below.

- **Fast Fuels II**
95-5591 Mamalahoa Highway
Distance: 392 feet
Direction: West-Southwest
Database listed on: LUST, UST, and Financial Assurance
Topographic Relationship: Cross-gradient

Information in the LUST, UST, and Financial Assurance database indicates the facility has three operational USTs containing gasohol and diesel fuel that were installed in 1999. The facility also has four permanently out-of-use USTs containing diesel and gasoline that were closed in 1998. The facility reported a LUST incident in 1999; however, subsequently received a No Further Action (NFA) status in 1999. Based on regulatory status and topographic relationship, this facility does not represent a REC to the target property.

- **Getta Mallick**
95-5572 Mamalahoa Highway
Distance: 1,147 feet
Direction: West-Southwest
Database listed on: SHWS, LUST, UST, ENG CONTROLS, INST CONTROLS, and SPILLS
Topographic Relationship: Cross-gradient
Information in the SHWS, ENG CONTROLS, INST CONTROL databases indicates the facility is assessed as a hazard managed with controls. Lead contaminated soil was found under the concrete slab of a former gas station. The site was issued an NFA- Restricted Use letter in 2006. Restrictions consist of performing any activity that may disturb the integrity of the capping system are prohibited. Information in the LUST and UST databases indicate the facility has three permanently out-of-use USTs containing kerosene and gasoline that were closed in 2006. The facility reported a LUST incident; however, subsequently received a NFA status in 2007. Based on distance and topographic relationship, this facility does not represent a REC to the target property.
- **Residential Property- 95-5579 Opukea Street**
95-5579 Opukea Street
Distance: 1,604 feet
Direction: West
Database listed on: SHWS and BROWNFIELDS
Topographic Relationship: Upgradient
Information in the SHWS and BROWNFIELDS databases indicates the facility is assessed as an undetermined hazard; however, has received a NFA status. Based on distance and regulatory status, this facility does not represent a REC to the target property.

4.5 Orphan Summary

The orphan or unmapped site list consists of sites currently listed in Federal or State databases that have inadequate address information. However, if street addresses are available, the site locations are checked against the known location of the target property to determine their relative location to the minimum ASTM search distance from the target property. The EDR Orphan Summary identified a total of seven orphan sites with a poor or unconfirmed address, or business listing that may be in proximity to the target property. The target property was not identified on the orphan sites summary list provided by EDR. None of the orphan sites were observed near the target property during the site reconnaissance.

4.6 Additional Environmental Record Sources

Additional sources of records that were reviewed for this assessment are briefly discussed below.

4.6.1 Local Fire Department

BC contacted the Hawai'i County Fire Department regarding hazardous materials incidents, fires, or hazardous materials storage permits at the target property. At the time of report production, a response had not been received. Should information be received which alters the conclusions of this report, The County of Hawai'i shall be immediately notified and an addendum will be prepared.

4.6.2 Department of Health/Environmental Division

BC contacted the Hawai'i Department of Health regarding incidents of environmental concern at the target property. According to the Hawai'i Department of Health, no spills or other environmental issues have been reported for the target property.

4.6.3 Building Permit/Inspection Department

BC contacted the Hawai'i County Building Division regarding historical building records for the target property. At the time of report production, a response had not been received. Should information be received which alters the conclusions of this report, The County of Hawai'i shall be immediately notified and an addendum will be prepared.

Section 5

Interviews

The purpose of interviews is to obtain information indicating RECs, CRECs, or HRECs in connection with the target property, as described in ASTM E 1527-13. Selected individuals who were knowledgeable about current and past site operations were interviewed. The following is a brief summary of the information obtained about the target property.

5.1 Interviews with Owners, Occupants, and Others Knowledgeable of the Target Property

BC contacted the seller, Mr. Richard Souza Sr., about the current and past uses of the target property during this Phase I ESA. Mr. Souza could not provide an interview due to ongoing negotiations regarding the target property. Should information be received which alters the conclusions of this report, The County of Hawai'i shall be immediately notified and an addendum will be prepared.

The results of this interview identified no RECs or environmental risks regarding current or past operations at the target property.

Section 6

Site and Area Reconnaissance

6.1 Methodology and Limiting Conditions

The site and area reconnaissance was performed to identify obvious visual indications of present or past activities that have or could have contaminated the target property. The site reconnaissance was conducted on foot, unless otherwise noted, by Caitlin Shannon of BC on June 2, 2017. Maps, which illustrate the general location and configuration of the target property, are presented as Figures 1 and 2, respectively. Site and area reconnaissance photographs are provided in Appendix B.

6.2 Site Reconnaissance

At the time of the site reconnaissance, the property consisted of two existing residences, former livestock farm land, and pasture land. The surface sloped gently toward the southeast. Dilapidated asphalt driveways and unpaved, dirt roadways were present onsite. Electric utilities were observed on the property.

Table 6-1. Conditions Observed During Site Reconnaissance

Underground Storage Tanks	No
Aboveground Storage Tanks	Yes
Hazardous Materials and Wastes	Yes
Solid Waste	Yes
Potential Polychlorinated Biphenyls Containing Equipment	No
Water Wells	No
Waste Water Sewage Disposal/Septic	No
Odors	No
Pits, Ponds, Lagoons, and Other Surface Waters	No
HVAC	Yes
Staining and Corrosion	No
Drains, Sumps, and Dry Wells	No
Stained Soils or Pavements	No
Stressed Vegetation	No
Oil and Gas Wells / Mine Shafts	No
Structures	Yes

6.2.1 Underground Storage Tanks

BC's site reconnaissance revealed no evidence of USTs containing regulated substances on the target property. No evidence of historic USTs was observed on the target property. No unusual ground conditions, which might indicate the presence of USTs, waste oil tanks, hydraulic lifts, or other obvious environmental concerns relating to USTs, were observed on the target property during BC's site reconnaissance.

6.2.2 Aboveground Storage Tanks

BC's site reconnaissance revealed evidence of an AST on the target property. The AST contained water used for onsite farming activities.

6.2.3 Hazardous Materials and Waste

BC's site reconnaissance revealed evidence of hazardous materials on the western portions of the target property in the garage of one of the on-site residences in the form of motor oil containers. The identified materials were observed in their sealed, original containers and in designated storage areas. Materials appeared to be properly stored. No evidence of spills or staining was observed in the area of product storage/usage.

6.2.4 Solid Waste

BC's site reconnaissance revealed evidence of solid waste on the central, southern, and western portions of the target property in the form of debris/trash. Items observed included brush and rock piles, empty plastic drums, and miscellaneous household debris.

6.2.5 PCB-Containing Fluids

Electrical transformers are often a source of environmental concern due to the potential presence of polychlorinated biphenyl (PCB)-containing cooling oils used in some units. Equipment containing hydraulic oil may also be PCB-containing. Utility companies will typically respond to reported spills associated with their equipment. BC did not observe any transformers on the target property during the site reconnaissance.

6.2.6 Water Supply/Utilities and Wells

Potable water, electricity, or natural gas utilities were observed in rights-of-way of the target property. No water wells were observed onsite.

6.2.7 Wastewater, Sewage Disposal, and Septic Tanks

Wastewater and sewage systems were not observed at the target property. No evidence of septic tanks was observed onsite.

6.2.8 Odors

No unusual odors were noted during BC's site reconnaissance of the target property.

6.2.9 Pits, Ponds, Lagoons, and Other Surface Waters

No evidence of pits, ponds, lagoons, or other surface waters were observed on the target property during BC's site reconnaissance.

6.2.10 Heating and Air Conditioning Systems

Heating, ventilation, or air conditioning (HVAC) systems associated with the on-site structures were observed on the target property during BC's site reconnaissance.

6.2.11 Staining and Corrosion

No staining or corroded materials were observed on the target property during BC's site reconnaissance.

6.2.12 Drains, Sumps, and Dry Wells

No drains, sumps, or dry wells were observed on the target property during BC's site reconnaissance.

6.2.13 Stained Soil or Pavement

No stained soil or pavement was observed during BC's site reconnaissance.

6.2.14 Stressed Vegetation

No stressed vegetation was observed on the target property during BC's site reconnaissance.

6.2.15 Oil and Gas Wells and Mine Shafts

No evidence of oil wells and gas wells, mine shafts, or related activities was observed on the target property during BC's site reconnaissance.

6.2.16 Structures

Three structures were observed on the target property. Table 6-4 lists the structures on the target property. Figure 1 shows the locations and orientation of these structures.

Table 6-4. List of Structures		
Structure	Location	Purpose
One-story wooden building	Western portion of the target property	Single family residence
One-story wooden building with garage	Western portion of the target property	Single family residence
Vinyl Siding Trailer	Central portion of the target property	Storage

In addition to the list of structures, there was abandoned farm equipment, abandoned cars, and abandoned fencing on the central and western portions of the target property. There was no evidence of spills or leaks associated with the storage of these items.

6.3 Area Reconnaissance

An area reconnaissance was performed to identify obvious visual indications of present or past activities that have or could have contaminated the target property. The area reconnaissance was conducted by automobile, and/or on foot, unless otherwise noted. The findings of the area reconnaissance are presented according to the geographic relationship to the target property.

6.3.1 North

The target property is bordered to the north by Mamalahoa Highway, beyond which is pasture land and residential properties.

6.3.2 East

The target property is bordered to the east by pasture land.

6.3.3 South

The target property is bordered to the south by pasture land.

6.3.4 West

The target property is bordered to the west by Naalehu School and residential properties.



Section 7

Findings, Opinions, and Conclusions

7.1 Summary of Findings

BC performed this assessment in general conformance with the scope and limitations of the ASTM Standard E 1527-13 to identify any RECs in connection with the target property, including the presence, or likely presence, of any hazardous substances or petroleum products on the target property under conditions that indicate an existing release, or past release, or a material threat of release into the ground, groundwater, surface water, or structures on the target property. This assessment included an evaluation to the extent practicable of the past and present land uses at the target property and on adjacent properties.

7.2 Data Failures and Gaps

Through the course of this assessment, BC may have encountered data failures or data gaps. These failures or gaps, if any, are discussed below. The following provides the opinion of the Environmental Professional (EP) as to the significance of the data gaps in terms of defining RECs at the target property. Data failures may or may not be significant data gaps, and the discussion also provides information pertaining to whether the data failures resulted in significant data gaps.

7.2.1 Data Failures

Data failure is a failure to achieve the historical (property use) research objectives specified in the ASTM Standard Practice even after reviewing the eight standard historical sources that are reasonably ascertainable and likely to be useful. Data failure is one type of data gap. No data failure was encountered.

7.2.2 Data Gaps

A data gap is a lack of, or inability to obtain, information required by the ASTM Standard Practice, despite good faith efforts by the EP to gather such information. This could include any component of the Practice, e.g., standard environmental records, interviews, or a complete reconnaissance. A data gap by itself is not inherently significant, but if other information and/or the EP's experience raises reasonable concerns about the gap, it may be judged to be significant. Data gaps for this assessment include the following:

- Time gaps of more than five years were noted in available historical information. BC does not believe that this deviation precludes the ability to render an opinion regarding potential RECs or *de minimis* conditions for the target property or the conclusions or recommendations of this report.
- A search was not conducted for environmental liens as required under ASTM E 1527-13. BC does not believe that this deviation precludes the ability to render an opinion regarding potential RECs or *de minimis* conditions for the target property or the conclusions or recommendations of this report.

- BC contacted the Hawai'i County Fire Department regarding hazardous materials incidents, fires, or hazardous materials storage permits at the target property. At the time of report production, a response had not been received. BC does not believe that this deviation precludes the ability to render an opinion regarding potential RECs or *de minimis* conditions for the target property or the conclusions or recommendations of this report.
- BC contacted the Hawai'i County Building Division regarding historical building records for the target property. At the time of report production, a response had not been received. BC does not believe that this deviation precludes the ability to render an opinion regarding potential RECs or *de minimis* conditions for the target property or the conclusions or recommendations of this report.
- BC contacted the seller, Mr. Richard Souza, Sr. regarding historical building records for the target property. At the time of report production, a response had not been received. BC does not believe that this deviation precludes the ability to render an opinion regarding potential RECs or *de minimis* conditions for the target property or the conclusions or recommendations of this report.

In summary, BC concludes that none of the above-identified data gaps are likely to alter the conclusions or concentrations of this report.

7.3 Conclusions and Recommendations

The results of this assessment have identified no evidence of on-site or off-site RECs; however, the following housekeeping and/or developmental conditions were identified:

- BC's site reconnaissance revealed evidence of solid waste on the central, southern, and western portions of the target property in the form of debris/trash. Items observed included brush and rock piles, empty plastic drums, and miscellaneous household debris. All debris appeared to be surficial in nature.

BC's site reconnaissance also revealed evidence of abandoned farm equipment, abandoned cars, and abandoned fencing on the central and western portions of the target property. There was no evidence of spills or leaks associated with the storage of these items.

BC recommends that the debris be collected and disposed from the target property in accordance with state and local regulations. If indications of any potential regulated materials or releases are observed during removal, BC should be contacted to determine if additional assessment is warranted.

- BC's site reconnaissance revealed evidence of hazardous materials on the western portions of the target property in the garage of one of the onsite residences in the form of motor oil containers. The identified materials were observed in their sealed, original containers and in designated storage areas. Materials appeared to be properly stored. BC did not observe any staining, odors, or evidence of a release in the vicinity of these materials.

BC recommends that the hazardous materials be removed and disposed from the target property in accordance with state and local regulations. If indications of any releases are observed during removal, BC should be contacted to determine if additional assessment is warranted.

- BC's site reconnaissance revealed evidence of an AST located on the central portion of the target property. The AST appeared to be in fair condition with some evidence of corrosion. The corrosion appeared surficial in nature and is not anticipated to adversely impact the environmental integrity of the target property.

BC recommends that the AST be removed and disposed from the target property in accordance with state and local regulations. If indications of any releases are observed during removal, BC should be contacted to determine if additional assessment is warranted.

- The target property contains three structures that were built in approximately 1975. Based on the date of construction being prior to 1978, asbestos-containing materials (ACMs) and lead-based paint (LBP) are likely present at the target property.

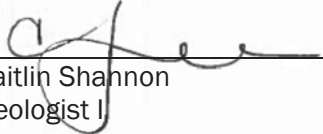
BC recommends that the appropriate abatement methods be followed during demolition of the target property structures.

No further assessment of the target property is recommended at this time.

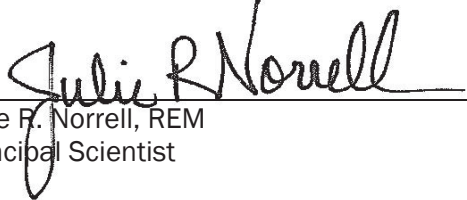
BC requests notification for further discussion or evaluation of any new conditions discovered during the development of the target property.

7.4 Environmental Professional's Statement and Signature

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



Caitlin Shannon
Geologist I



Julie R. Norrell, REM
Principal Scientist



Section 8

Environmental Professionals' Qualifications

BC personnel involved with this project are listed below along with pertinent information regarding their qualifications and specialized knowledge. Additional details regarding each listed professional have been included in Appendix G.

BC EPs conducting the assessment include: Caitlin Shannon and Julie Norrell.

Section 9

References

40 CFR 312, Standards and Practices for All Appropriate Inquiries; Final Rule, November 2005 (AAI Rule).

American Society for Testing and Materials (ASTM), November 2013. *Standard Practice E1527 13 for Environmental Site Assessments: Phase I Environmental Site Assessment Process*.

Environmental Data Resources, Inc., *The EDR Radius Map Report with Geocheck*. Inquiry number 495891.2s. May 23, 2017.

Environmental Data Resources, Inc., *The EDR Aerial Photo Decade Package*. Inquiry number 495891.9. May 23, 2017.

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Environmental Data Resources, Inc., *The EDR-City Directory Image Report*. Inquiry number 495891.5. May 24, 2017.

Environmental Data Resources, Inc., *Certified Sanborn Map Report*. Inquiry number 495891.3. May 23, 2017.

Environmental Data Resources, Inc., *EDR Vapor Encroachment Screen*. Inquiry number 495891.6s. August 24, 2017.

Federal Emergency Management Agency, <http://msc.fema.gov/>

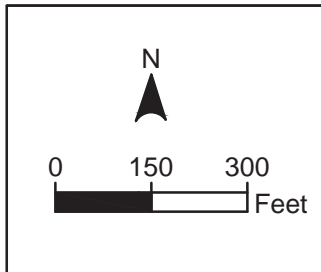
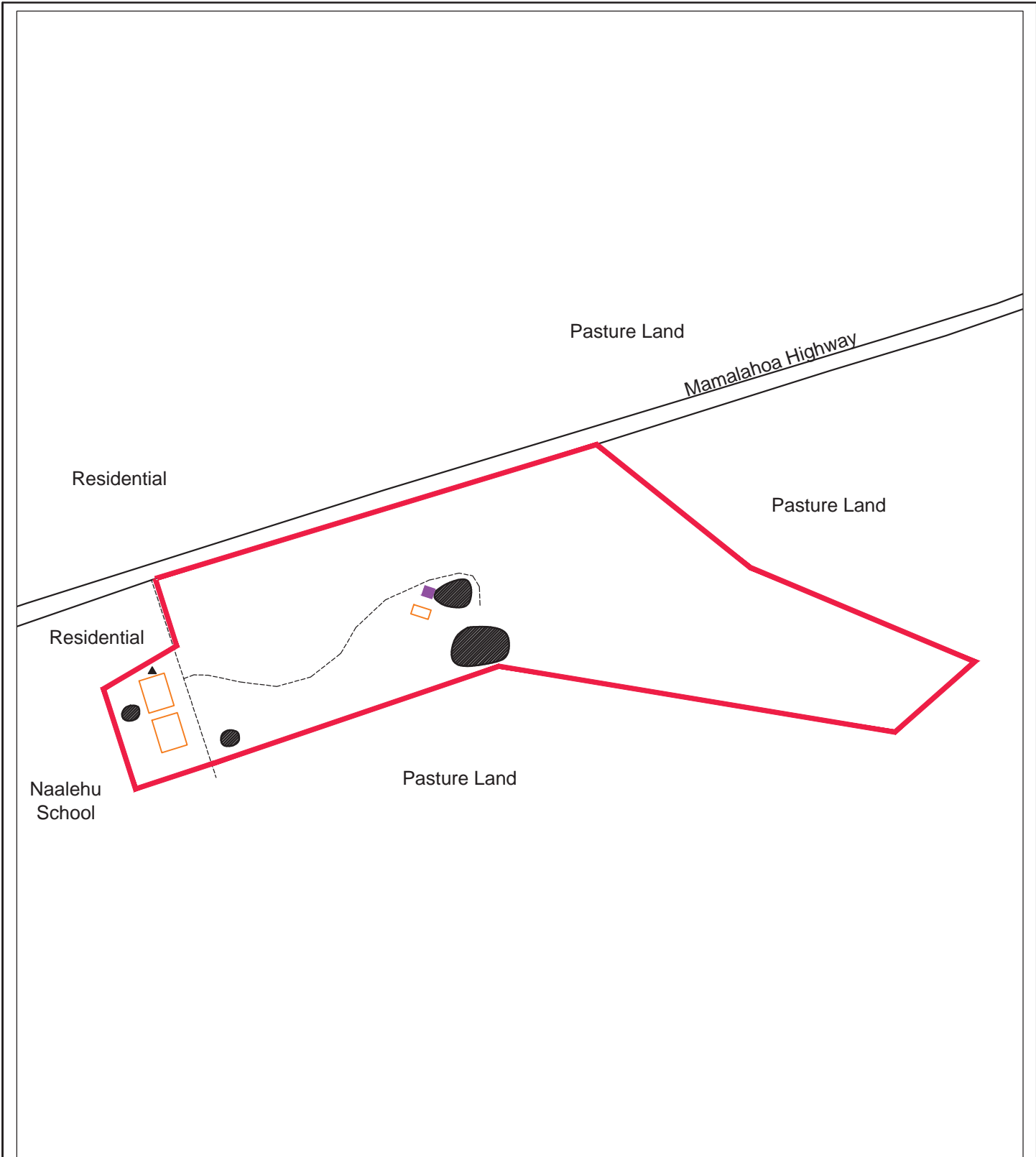
Hawai'i County Property Appraiser, http://qpublic9.qpublic.net/hi_hawaii_search.php

National Wetlands Inventory Maps, <http://www.fws.gov/wetlands/Data/Mapper.html>

U.S. Fish and Wildlife, Threatened and Endangered Species, http://ecos.fws.gov/tess_public/



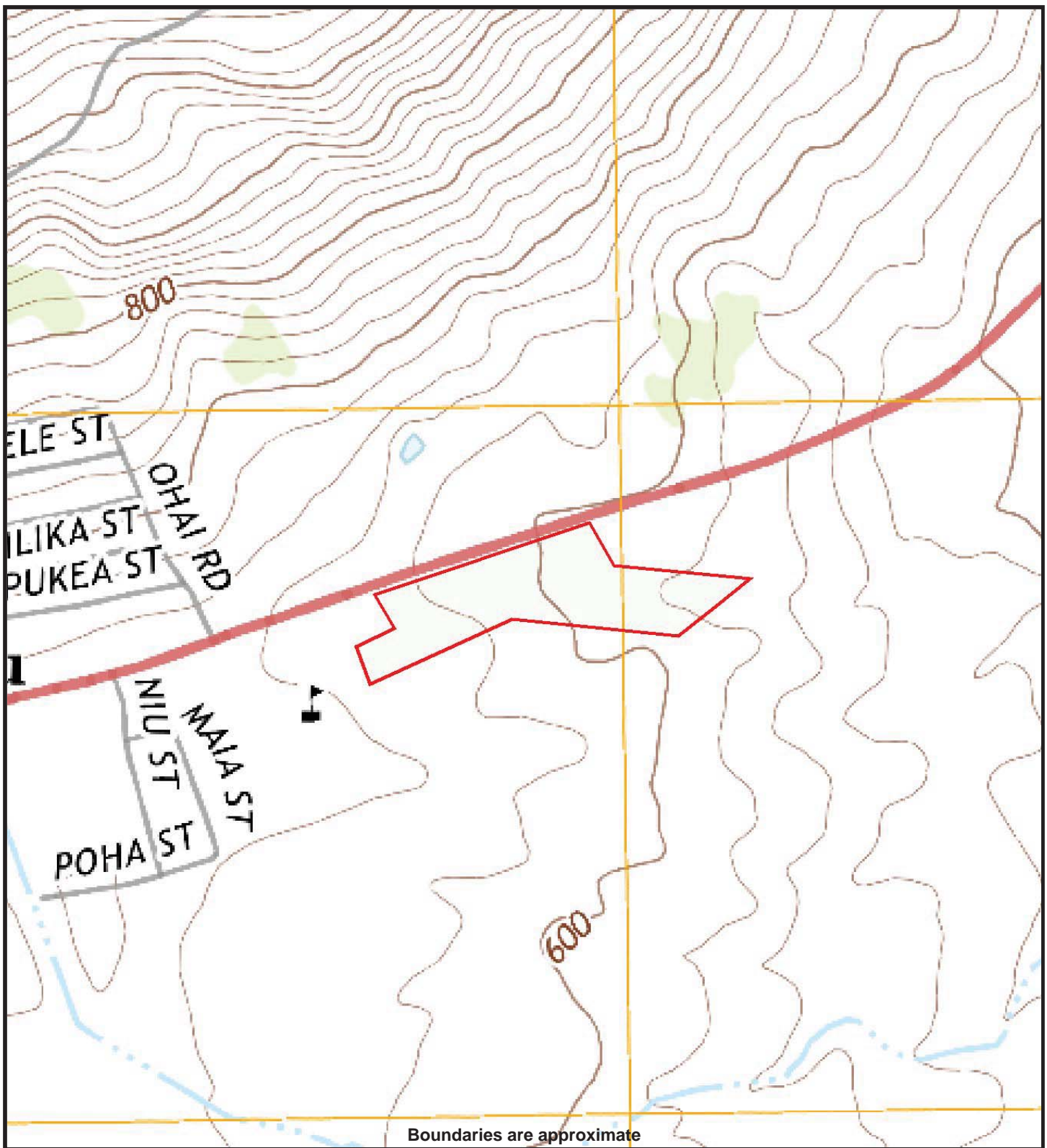
Appendix A: Figures



LEGEND	
	Target Property Boundary
	Abandoned Farm Equipment
	Structures
	Dirt Road
	Oil Storage
	Above Ground Storage Tank

FIGURE 1
Target Property Map
 Naalehu WWTP Naalehu,
 County of Hawai'i, HI 96772





Naalehu,
Hawai'i
2013



FIGURE 2




Naalehu WWTP
Naalehu, Hawai'i

**Brown AND
Caldwell**



Appendix B: Site and Surrounding Area Photographs




Naalehu WWTP
Phase I Environmental Site Assessment
Mamalahoa Highway
Naalehu, County of Hawai'i, Hawai'i 96772

Photo #1	
Description: Entrance to target property from Mamalahoa Highway on the northwestern portion of the target property	
Facing North	
Photo #2	
Description: Metal gate on the southeastern portion of the target property	
Facing Southeast	
Photo #3	
Description: Livestock pen on the central portion of the target property	
Facing Southwest	




Naalehu WWTP
Phase I Environmental Site Assessment
Mamalaho Highway
Naalehu, County of Hawai'i, Hawai'i 96772

Photo #4	
Description: Brush and rock pile on the central portion of the target property	
Facing North	
Photo #5	
Description: Abandoned water trough on the central portion of the target property	
Facing West	
Photo #6	
Description: Pasture land on the northern central portion of the target property	
Facing Northeast	

Naalehu WWTP
Phase I Environmental Site Assessment
Mamalahoa Highway
Naalehu, County of Hawai'i, Hawai'i 96772

Photo #7	
Description: Sugar cane and pasture land in the northern portion of the target property	
Facing East	
Photo #8	
Description: Representative photo of exposed rock on the target property	
Facing N/A	
Photo #9	
Description: Rock pile and debris on the central portion of the target property	
Facing N/A	

Naalehu WWTP
Phase I Environmental Site Assessment
Mamalaho Highway
Naalehu, County of Hawai'i, Hawai'i 96772

Photo #10	
Description: Roadway and metal gate through the pasture land in the central portion of the target property	
Facing South	
Photo #11	
Description: Livestock pen and abandoned farm equipment in the central portion of the target property	
Facing South	
Photo #12	
Description: Representative photo of sugar cane on the target property	
Facing North	




Naalehu WWTP
Phase I Environmental Site Assessment
Mamalahoa Highway
Naalehu, County of Hawai'i, Hawai'i 96772

Photo #13	
Description: Water aboveground storage tank (AST) on the central portion of the target property	
Facing Southeast	
Photo #14	
Description: Representative photo of irrigation system on the target property	
Facing N/A	
Photo #15	
Description: Locked metal trailer on the central portion of the target property	
Facing South	

Naalehu WWTP
Phase I Environmental Site Assessment
Mamalahoa Highway
Naalehu, County of Hawai'i, Hawai'i 96772

Photo #16	
Description: Northwestern portion of the target property	
Facing Northwest	
Photo #17	
Description: Residence on the western portion of the target property	
Facing Southwest	
Photo #18	
Description: Residence on the western portion of the target property	
Facing Northwest	




Naalehu WWTP
Phase I Environmental Site Assessment
Mamalahoa Highway
Naalehu, County of Hawai'i, Hawai'i 96772

<p>Photo #19</p>	
<p>Description: Junk cars and storage equipment adjacent to residence on the western portion of the target property</p>	
<p>Facing South-Southwest</p>	
<p>Photo #20</p>	
<p>Description: Back yard of residence in the western portion of the target property</p>	
<p>Facing North-Northeast</p>	
<p>Photo #21</p>	
<p>Description: Motor oil storage inside the residence with garage on the western portion of the target property</p>	
<p>Facing N/A</p>	

Naalehu WWTP
Phase I Environmental Site Assessment
Mamalahoa Highway
Naalehu, County of Hawai'i, Hawai'i 96772

Photo #22	
Description: Abandoned vehicle and equipment adjacent to residence on the western portion of the target property	
Facing Southwest	
Photo #23	Description: Abandoned vehicle and equipment adjacent to residence on the western portion of the target property
Facing Southwest	Photo #24
Description: Abandoned equipment adjacent to residence on the western portion of the target property	Facing West

Naalehu WWTP
Phase I Environmental Site Assessment
Mamalaho Highway
Naalehu, County of Hawai'i, Hawai'i 96772

Photo #25	
Description: Abandoned vehicle and equipment adjacent to residence on the western portion of the target property	
Facing South	
Photo #26	
Description: Abandoned equipment adjacent to residence on the western portion of the target property	
Facing South	
Photo #27	
Description: Northern adjacent pasture land and residence, past Mamalahoa Highway	
Facing North	

Naalehu WWTP
Phase I Environmental Site Assessment
Mamalahoa Highway
Naalehu, County of Hawai'i, Hawai'i 96772

Photo #28	
Description: Eastern adjacent pasture land	
Facing Northeast	
Photo #29	
Description: Southern adjacent pasture land	
Facing South	
Photo #30	
Description: Western adjacent property; Naalehu School	
Facing West	

Naalehu WWTP
Phase I Environmental Site Assessment
Mamalahoa Highway
Naalehu, County of Hawai'i, Hawai'i 96772

Photo #31	
Description: Western adjacent residence	
Facing Northwest	



Appendix C: EDR

Naalehu TMK
Mamalahoa Highway
Naalehu, HI 96772

Inquiry Number: 4945891.2s
May 23, 2017

The EDR Radius Map™ Report with GeoCheck®



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

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

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EXECUTIVE SUMMARY

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

TARGET PROPERTY INFORMATION

ADDRESS

MAMALAHOA HIGHWAY
NAALEHU, HI 96772

COORDINATES

Latitude (North):	19.0626950 - 19° 3' 45.70"
Longitude (West):	155.5764310 - 155° 34' 35.15"
Universal Tranverse Mercator:	Zone 5
UTM X (Meters):	228856.2
UTM Y (Meters):	2109630.2
Elevation:	603 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5949274 NAALEHU, HI
Version Date:	2013

MAPPED SITES SUMMARY

Target Property Address:
MAMALAHOA HIGHWAY
NAALEHU, HI 96772

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	FAST FUELS II	95-5591 MAMALAHOA HW	LUST, UST, Financial Assurance	Higher	392, 0.074, WSW
2	GETTA MALLICK	95-5572 MAMALAHOA HW	SHWS, LUST, UST, ENG CONTROLS, INST CONTROL,...	Higher	1147, 0.217, WSW
3	RESIDENTIAL PROPERTY	95-5579 OPUKEA ST	SHWS, BROWNFIELDS	Higher	1604, 0.304, West

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

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

DATABASES WITH NO MAPPED SITES

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

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

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

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

Federal CERCLIS NFRAP site list

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

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

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

Federal RCRA generators list

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

Federal institutional controls / engineering controls registries

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

EXECUTIVE SUMMARY

US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

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

SWF/LF..... Permitted Landfills in the State of Hawaii

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing

INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

VCP..... Voluntary Response Program Sites

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

ODI..... Open Dump Inventory

IHS OPEN DUMPS..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register

CDL..... Clandestine Drug Lab Listing

US CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

SPILLS..... Release Notifications

SPILLS 90..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

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

EXECUTIVE SUMMARY

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

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto.....	EDR Exclusive Historic Gas Stations
EDR Hist Cleaner.....	EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS.....	Recovered Government Archive State Hazardous Waste Facilities List
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EXECUTIVE SUMMARY

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

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

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

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

STANDARD ENVIRONMENTAL RECORDS

State- and tribal - equivalent CERCLIS

SHWS: The State Hazardous Waste Sites 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. The data come from the Department of Health.

A review of the SHWS list, as provided by EDR, and dated 09/23/2016 has revealed that there are 2 SHWS sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>GETTA MALLICK</i>	<i>95-5572 MAMALAHOA HW</i>	<i>WSW 1/8 - 1/4 (0.217 mi.)</i>	<i>2</i>	<i>10</i>
<i>RESIDENTIAL PROPERTY</i>	<i>95-5579 OPUKEA ST</i>	<i>W 1/4 - 1/2 (0.304 mi.)</i>	<i>3</i>	<i>13</i>

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Health's Active Leaking Underground Storage Tank Log Listing.

A review of the LUST list, as provided by EDR, and dated 11/18/2016 has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>FAST FUELS II</i> Release ID: 990047 Facility Id: 9-601647 Facility Status: Site Cleanup Completed (NFA)	<i>95-5591 MAMALAHOA HW</i>	<i>WSW 0 - 1/8 (0.074 mi.)</i>	<i>1</i>	<i>8</i>
<i>GETTA MALLICK</i> Release ID: 060034 Facility Id: 9-603807	<i>95-5572 MAMALAHOA HW</i>	<i>WSW 1/8 - 1/4 (0.217 mi.)</i>	<i>2</i>	<i>10</i>

EXECUTIVE SUMMARY

Facility Status: Site Cleanup Completed (NFA)

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Health's Listing of Underground Storage Tanks.

A review of the UST list, as provided by EDR, and dated 11/18/2016 has revealed that there are 2 UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FAST FUELS II Tank Status: Permanently Out of Use Tank Status: Currently In Use Facility Id: 9-601647 Date Closed: 10/13/1998	95-5591 MAMALAHOA HW	WSW 0 - 1/8 (0.074 mi.)	1	8
GETTA MALLICK Tank Status: Permanently out of Use Facility Id: 9-603807 Date Closed: 03/27/2006 Date Closed: 03/28/2006	95-5572 MAMALAHOA HW	WSW 1/8 - 1/4 (0.217 mi.)	2	10

State and tribal institutional control / engineering control registries

ENG CONTROLS: A listing of sites with engineering controls in place.

A review of the ENG CONTROLS list, as provided by EDR, and dated 09/23/2016 has revealed that there is 1 ENG CONTROLS site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GETTA MALLICK	95-5572 MAMALAHOA HW	WSW 1/8 - 1/4 (0.217 mi.)	2	10

Voluntary Remediation Program and Brownfields sites with institutional controls in place.

A review of the INST CONTROL list, as provided by EDR, and dated 09/23/2016 has revealed that there is 1 INST CONTROL site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GETTA MALLICK	95-5572 MAMALAHOA HW	WSW 1/8 - 1/4 (0.217 mi.)	2	10

EXECUTIVE SUMMARY

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Site List

A review of the BROWNFIELDS list, as provided by EDR, and dated 09/23/2016 has revealed that there is 1 BROWNFIELDS site within approximately 0.5 miles of the target property.

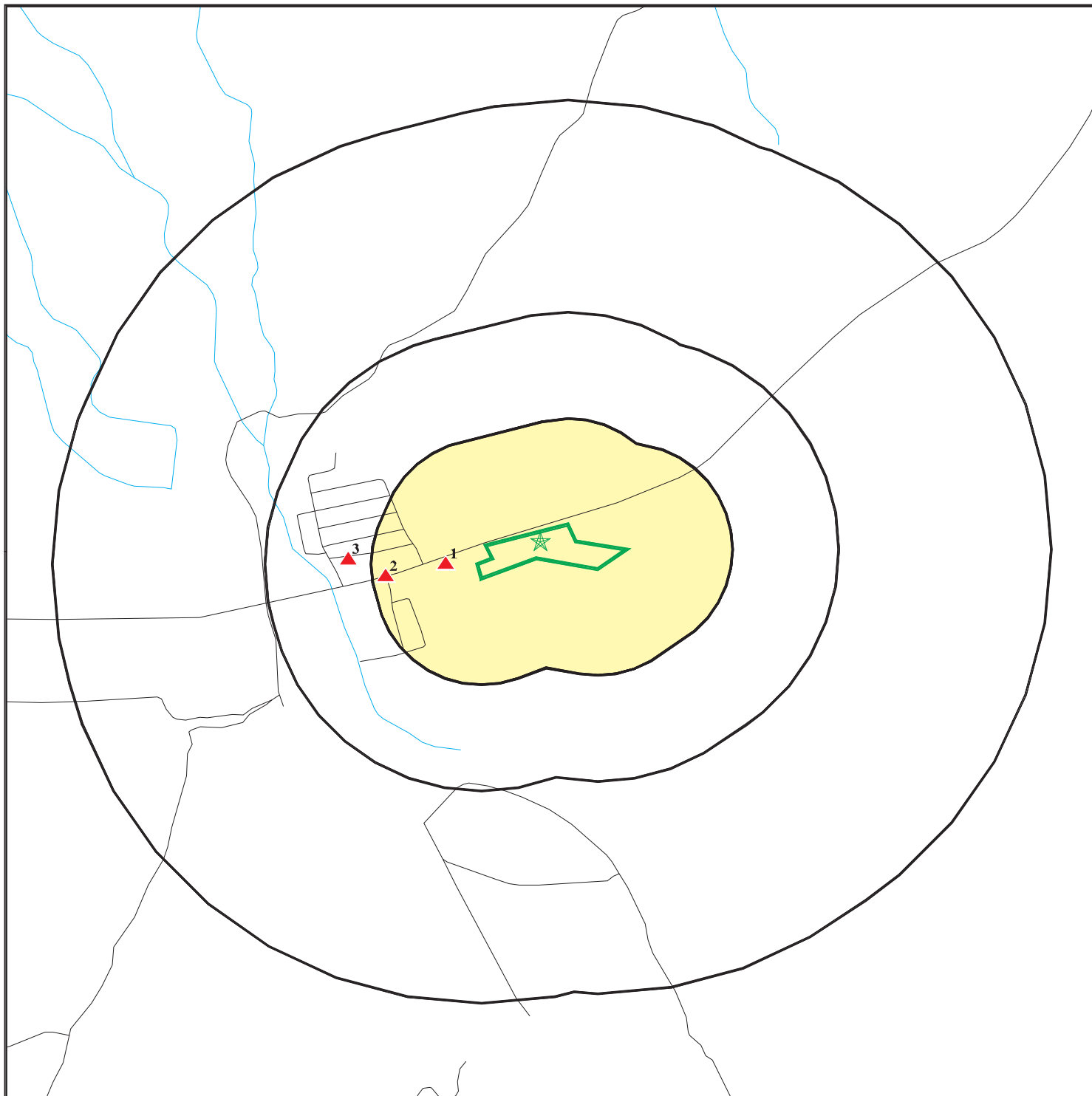
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>RESIDENTIAL PROPERTY</i>	<i>95-5579 OPUKEA ST</i>	<i>W 1/4 - 1/2 (0.304 mi.)</i>	<i>3</i>	<i>13</i>







EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 7 records.

<u>Site Name</u>	<u>Database(s)</u>
KAALAIKI INDUSTRIAL LOTS B AND C	SHWS, ENG CONTROLS, INST CONTROL
KAALAIKI INDUSTRIAL LOTS B-D	SHWS
KAALAIKI INDUSTRIAL LOT D	SHWS
HUTCHINSON SUGAR PLANTATION COMPAN	SHWS
HUTCHINSON SUGAR PLANTATION COMPAN	SHWS
WAIOHINU LANDFILL	SHWS
WAIOHINU LDFL	SEMS-ARCHIVE

OVERVIEW MAP - 4945891.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  National Priority List Sites
-  Dept. Defense Sites



 Indian Reservations BIA

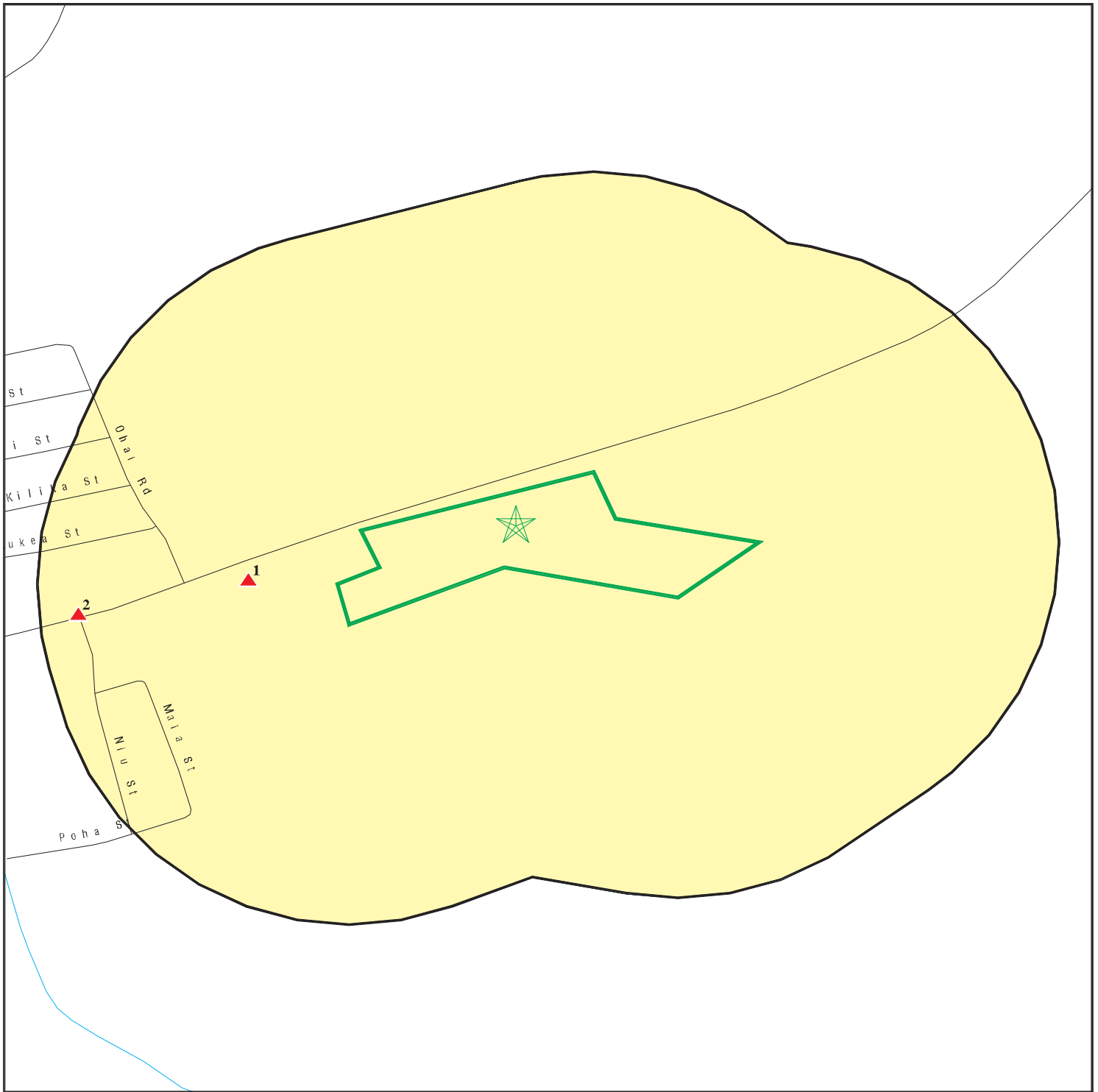









This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Naalehu TMK
 ADDRESS: Mamalahoa Highway
 Naalehu HI 96772
 LAT/LONG: 19.062695 / 155.576431

CLIENT: Brown & Caldwell
 CONTACT: Caitlin Shannon
 INQUIRY #: 4945891.2s
 DATE: May 23, 2017 4:13 pm

DETAIL MAP - 4945891.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites



 Indian Reservations BIA



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

SITE NAME: Naalehu TMK
 ADDRESS: Mamalahoa Highway
 Naalehu HI 96772
 LAT/LONG: 19.062695 / 155.576431

CLIENT: Brown & Caldwell
 CONTACT: Caitlin Shannon
 INQUIRY #: 4945891.2s
 DATE: May 23, 2017 4:14 pm

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								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site list</i>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	0.001		0	NR	NR	NR	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
SHWS	1.000		0	1	1	0	NR	2
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST	0.500		1	1	0	NR	NR	2
INDIAN LUST	0.500		0	0	0	NR	NR	0
<i>State and tribal registered storage tank lists</i>								
FEMA UST	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
UST	0.250		1	1	NR	NR	NR	2
INDIAN UST	0.250		0	0	NR	NR	NR	0
<i>State and tribal institutional control / engineering control registries</i>								
ENG CONTROLS	0.500		0	1	0	NR	NR	1
INST CONTROL	0.500		0	1	0	NR	NR	1
<i>State and tribal voluntary cleanup sites</i>								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
<i>State and tribal Brownfields sites</i>								
BROWNFIELDS	0.500		0	0	1	NR	NR	1
<u>ADDITIONAL ENVIRONMENTAL RECORDS</u>								
<i>Local Brownfield lists</i>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Landfill / Solid Waste Disposal Sites</i>								
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Hazardous waste / Contaminated Sites</i>								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
<i>Local Land Records</i>								
LIENS 2	0.001		0	NR	NR	NR	NR	0
<i>Records of Emergency Release Reports</i>								
HMIRS	0.001		0	NR	NR	NR	NR	0
SPILLS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
<i>Other Ascertainable Records</i>								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	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
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.001		0	NR	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	0.001		0	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
UIC	0.001		0	NR	NR	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

RGA HWS	0.001		0	NR	NR	NR	NR	0
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0

- Totals --		0	2	5	2	0	0	9
-------------	--	---	---	---	---	---	---	---

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
-----------------	--	----------------------------	-----------------	------------------	------------------	----------------	---------------	--------------------------

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

1
WSW
< 1/8
0.074 mi.
392 ft.

FAST FUELS II
95-5591 MAMALAHOA HWY
NAALEHU, HI 96772

LUST U001237093
UST N/A
Financial Assurance

Relative:
Higher

LUST:
Facility ID: 9-601647
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 07/20/1999
Release ID: 990047
Project Officer: Richard Takaba

Actual:
639 ft.

UST:
Facility ID: 9-601647
Owner: L.A. SERVICES INC.
Owner Address: P.O. BOX 335
Owner City,St,Zip: Naalehu, 96772 96772
Latitude: 19.061020
Longitude: -155.583426
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: GPS

Tank ID: 1
Date Installed: 10/01/1999
Tank Status: Currently In Use
Date Closed: Not reported
Tank Capacity: 12000
Substance: Gasohol

Tank ID: 2A
Date Installed: 10/01/1999
Tank Status: Currently In Use
Date Closed: Not reported
Tank Capacity: 10000
Substance: Gasohol

Tank ID: 2B
Date Installed: 10/01/1999
Tank Status: Currently In Use
Date Closed: Not reported
Tank Capacity: 2000
Substance: Diesel

Tank ID: R-1
Date Installed: 01/01/1971
Tank Status: Permanently Out of Use
Date Closed: 10/13/1998
Tank Capacity: 1000
Substance: Diesel

Tank ID: R-2
Date Installed: 01/01/1979
Tank Status: Permanently Out of Use
Date Closed: 10/13/1998

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FAST FUELS II (Continued)

U001237093

Tank Capacity: 1000
Substance: Gasoline

Tank ID: R-3
Date Installed: 05/07/1971
Tank Status: Permanently Out of Use
Date Closed: 10/13/1998
Tank Capacity: 4500
Substance: Gasoline

Tank ID: R-4
Date Installed: 05/07/1971
Tank Status: Permanently Out of Use
Date Closed: 10/13/1998
Tank Capacity: 7500
Substance: Gasoline

HI Financial Assurance:

Alt Facility ID: 9-601647
Tank Id: 2A
Tank Status: Currently In Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-601647
Tank Id: R-3
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-601647
Tank Id: R-2
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-601647
Tank Id: R-1
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-601647
Tank Id: 2B
Tank Status: Currently In Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-601647
Tank Id: R-4
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-601647

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

FAST FUELS II (Continued)

U001237093

Tank Id:	1
Tank Status:	Currently In Use
FRTYPE:	Other
Expiration Date:	Not reported
Alt Facility ID:	9-601647
Tank Id:	R-1
Tank Status:	Permanently Out of Use
FRTYPE:	Insurance
Expiration Date:	12/31/2016
Alt Facility ID:	9-601647
Tank Id:	R-2
Tank Status:	Permanently Out of Use
FRTYPE:	Insurance
Expiration Date:	12/31/2016
Alt Facility ID:	9-601647
Tank Id:	2A
Tank Status:	Currently In Use
FRTYPE:	Insurance
Expiration Date:	12/31/2016
Alt Facility ID:	9-601647
Tank Id:	R-3
Tank Status:	Permanently Out of Use
FRTYPE:	Insurance
Expiration Date:	12/31/2016
Alt Facility ID:	9-601647
Tank Id:	R-4
Tank Status:	Permanently Out of Use
FRTYPE:	Insurance
Expiration Date:	12/31/2016
Alt Facility ID:	9-601647
Tank Id:	1
Tank Status:	Currently In Use
FRTYPE:	Insurance
Expiration Date:	12/31/2016
Alt Facility ID:	9-601647
Tank Id:	2B
Tank Status:	Currently In Use
FRTYPE:	Insurance
Expiration Date:	12/31/2016

2
WSW
1/8-1/4
0.217 mi.
1147 ft.

GETTA MALLICK
95-5572 MAMALAHOA HWY
NAALEHU, HI 96772

SHWS **U004053377**
LUST **N/A**
UST
ENG CONTROLS
INST CONTROL
SPILLS

Relative:
Higher

SHWS:
 Organization: Not reported
 Supplemental Location: Not reported
 Island: Hawaii

Actual:
655 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GETTA MALLICK (Continued)

U004053377

Environmental Interest: 95-5572 Mamalahoa Highway
HID Number: Not reported
Facility Registry Identifier: Not reported
Lead Agency: HEER
Program: State
Project Manager: Laura Young
Hazard Priority: NFA
Potential Hazards And Controls: Hazard Managed With Controls
Island: Hawaii
SDAR Environmental Interest Name: 95-5572 Mamalahoa Highway
HID Number: Not reported
Facility Registry Identifier: Not reported
Lead Agency: HEER
Potential Hazard And Controls: Hazard Managed With Controls
Priority: NFA
Assessment: Response Necessary
Response: Response Complete
Nature of Contamination: Found: Lead contaminated soil under concrete slab of former gas station pumps.
Nature of Residual Contamination: Lead in soil at concentrations of 948 and 4,120 mg/kg under concrete. Source unidentified and distribution not fully characterized.
Use Restrictions: Controls Required to Manage Contamination
Engineering Control: Engineering Control Required
Description of Restrictions: Prohibit Any Activity That May Disturb the Integrity of the Capping System
Institutional Control: Government - Hawaii Dept. of Health Letter Issued
Within Designated Areawide Contamination: Not reported
Site Closure Type: No Further Action Letter - Restricted Use
Document Date: 09/12/2006
Document Number: 2006-566-LY
Document Subject: No Further Action Letter for 95-5572 Mamalahoa Hwy
Project Manager: Laura Young
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

LUST:

Facility ID: 9-603807
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 03/21/2007
Release ID: 060034
Project Officer: Shaobin Li

UST:

Facility ID: 9-603807
Owner: Getta Mallick
Owner Address: 10766 Wilshire Blvd
Owner City,St,Zip: Naalehu, 96772 96772
Latitude: 19.061484
Longitude: -155.582516
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: Address Matching

Tank ID: R-T1
Date Installed: Not reported
Tank Status: Permanently out of Use
Date Closed: 03/27/2006
Tank Capacity: 550

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GETTA MALLICK (Continued)

U004053377

Substance: Kerosene

Tank ID: R-T2
Date Installed: Not reported
Tank Status: Permanently out of Use
Date Closed: 03/28/2006
Tank Capacity: 500
Substance: Gasoline

Tank ID: R-T4
Date Installed: Not reported
Tank Status: Permanently out of Use
Date Closed: 03/28/2006
Tank Capacity: 300
Substance: Gasoline

ENG CONTROLS:

Supplemental Location Text: Not reported
Zip Suffix: Not reported
Island: Hawaii
Potential Hazards And Controls: Hazard Managed With Controls
Engineering Control: Engineering Control Required

INST CONTROL:

Potential hazards and controls: Hazard Managed With Controls
Supplemental Location: Not reported
Zip Suffix: Not reported
Island: Hawaii
Institutional Control: Government - Hawaii Dept. of Health Letter Issued

HI SPILLS:

Island: Hawaii
Supplemental Loc. Text: Not reported
Case Number: 20060815-1518
HID Number: Not reported
Facility Registry Id: Not reported
Lead and Program: HEER EP&R
ER: Off Scene
Units: 95-5572 Mamalahoa Highway
Substances: Lead impacted soil
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response
Activity Lead: Curtis Martin
Assignment End Date: 2006-08-09 00:00:00
Result: Refer to SDAR
File Under: Geeta Mallik
Latitude: 19.061838
Longitude: -155.582283

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

3
West
1/4-1/2
0.304 mi.
1604 ft.

RESIDENTIAL PROPERTY 95-5579 OPUKEA STREET
95-5579 OPUKEA ST
NAALEHU, HI 96772

SHWS **S110061799**
BROWNFIELDS **N/A**

Relative:
Higher

SHWS:

Organization:	Not reported
Supplemental Location:	Not reported
Island:	Hawaii
Environmental Interest:	Residential Property 95-5579 Opukea Street
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER
Program:	Brownfields
Project Manager:	Melody Calisay
Hazard Priority:	NFA
Potential Hazards And Controls:	Hazard Undetermined
Island:	Hawaii
SDAR Environmental Interest Name:	Residential Property 95-5579 Opukea Street
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER
Potential Hazard And Controls:	Hazard Undetermined
Priority:	NFA
Assessment:	Assessment Ongoing
Response:	Not reported
Nature of Contamination:	Not reported
Nature of Residual Contamination:	Not reported
Use Restrictions:	Undetermined
Engineering Control:	Not reported
Description of Restrictions:	Not reported
Institutional Control:	Not reported
Within Designated Areawide Contamination:	Not reported
Site Closure Type:	None - Phase I Only
Document Date:	10/10/2007
Document Number:	Not reported
Document Subject:	Residential Property 95-5579 Opukea St, Naalehu, HI, TMK 3-9-5-024-010, Lot 174 Phase I ESA Report
Project Manager:	Melody Calisay
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

BROWNFIELDS:

Program:	Brownfields
Supplemental Location:	Not reported
Island:	Hawaii
Zip Suffix:	Not reported

Count: 7 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
NAALEHU	S118422819	KAALAIKI INDUSTRIAL LOTS B-D	95-1178 KAALAIKI RD		SHWS
NAALEHU	S118422818	KAALAIKI INDUSTRIAL LOTS B AND C	95-1178 KAALAIKI RD		SHWS, ENG CONTROLS, INST CONT
NAALEHU	S118422817	KAALAIKI INDUSTRIAL LOT D	95-1178 KAALAIKI RD		SHWS
NAALEHU	S118943688	HUTCHINSON SUGAR PLANTATION COMPAN	KAALAIKI RD	96772	SHWS
NAALEHU	S118422814	HUTCHINSON SUGAR PLANTATION COMPAN	95-1784 KAALAIKI RD	96772	SHWS
WAOHINU	S106821075	WAOHINU LANDFILL	HAWAII BELT RD & KAULIA RD	96772	SHWS
WAOHINU	1003879130	WAOHINU LDFL	HAWAII BELT RD	96772	SEMS-ARCHIVE

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

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

Date of Government Version: 04/05/2017	Source: EPA
Date Data Arrived at EDR: 04/21/2017	Telephone: N/A
Date Made Active in Reports: 05/12/2017	Last EDR Contact: 04/21/2017
Number of Days to Update: 21	Next Scheduled EDR Contact: 07/17/2017
	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: 04/05/2017	Source: EPA
Date Data Arrived at EDR: 04/21/2017	Telephone: N/A
Date Made Active in Reports: 05/12/2017	Last EDR Contact: 04/21/2017
Number of Days to Update: 21	Next Scheduled EDR Contact: 07/17/2017
	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	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

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

Date of Government Version: 04/05/2017	Source: EPA
Date Data Arrived at EDR: 04/21/2017	Telephone: N/A
Date Made Active in Reports: 05/12/2017	Last EDR Contact: 04/21/2017
Number of Days to Update: 21	Next Scheduled EDR Contact: 07/17/2017
	Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

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

Date of Government Version: 11/07/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/05/2017	Telephone: 703-603-8704
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 04/07/2017
Number of Days to Update: 92	Next Scheduled EDR Contact: 07/17/2017
	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: 02/07/2017	Source: EPA
Date Data Arrived at EDR: 04/19/2017	Telephone: 800-424-9346
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/21/2017
Number of Days to Update: 16	Next Scheduled EDR Contact: 07/31/2017
	Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 02/07/2017	Source: EPA
Date Data Arrived at EDR: 04/19/2017	Telephone: 800-424-9346
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/25/2017
Number of Days to Update: 16	Next Scheduled EDR Contact: 07/31/2017
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/12/2016	Source: EPA
Date Data Arrived at EDR: 12/28/2016	Telephone: 800-424-9346
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 05/02/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

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

Date of Government Version: 12/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 05/02/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

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

Date of Government Version: 12/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 05/02/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 05/02/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

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

Date of Government Version: 12/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 05/02/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Varies

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: 12/28/2016	Source: Department of the Navy
Date Data Arrived at EDR: 01/04/2017	Telephone: 843-820-7326
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 05/15/2017
Number of Days to Update: 93	Next Scheduled EDR Contact: 08/28/2017
	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: 11/15/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/29/2016	Telephone: 703-603-0695
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 02/28/2017
Number of Days to Update: 66	Next Scheduled EDR Contact: 06/12/2017
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

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

Date of Government Version: 11/15/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/29/2016	Telephone: 703-603-0695
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 02/28/2017
Number of Days to Update: 66	Next Scheduled EDR Contact: 06/12/2017
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 09/26/2016
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 43

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Sites List

Facilities, sites or areas in which the Office of Hazard Evaluation and Emergency Response has an interest, has investigated or may investigate under HRS 128D (includes CERCLIS sites).

Date of Government Version: 09/23/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 12/21/2016
Number of Days to Update: 29

Source: Department of Health
Telephone: 808-586-4249
Last EDR Contact: 03/17/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Semi-Annually

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

SWF/LF: Permitted Landfills in the State of Hawaii

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: 09/17/2012
Date Data Arrived at EDR: 04/03/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 37

Source: Department of Health
Telephone: 808-586-4245
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank Database

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: 11/18/2016
Date Data Arrived at EDR: 12/02/2016
Date Made Active in Reports: 12/21/2016
Number of Days to Update: 19

Source: Department of Health
Telephone: 808-586-4228
Last EDR Contact: 03/17/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: Semi-Annually

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: 10/17/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Date of Government Version: 10/01/2016	Source: EPA Region 6
Date Data Arrived at EDR: 01/26/2017	Telephone: 214-665-6597
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	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: 10/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/26/2017	Telephone: 206-553-2857
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Quarterly

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: 10/06/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/26/2017	Telephone: 415-972-3372
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Quarterly

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

Date of Government Version: 09/01/2016	Source: EPA Region 7
Date Data Arrived at EDR: 01/26/2017	Telephone: 913-551-7003
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	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: 11/14/2016	Source: EPA, Region 5
Date Data Arrived at EDR: 01/26/2017	Telephone: 312-886-7439
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	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: 11/14/2016	Source: EPA Region 1
Date Data Arrived at EDR: 01/26/2017	Telephone: 617-918-1313
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Varies

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

Date of Government Version: 10/14/2016	Source: EPA Region 4
Date Data Arrived at EDR: 01/27/2017	Telephone: 404-562-8677
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 98	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010	Source: FEMA
Date Data Arrived at EDR: 02/16/2010	Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 04/11/2017
Number of Days to Update: 55	Next Scheduled EDR Contact: 07/24/2017
	Data Release Frequency: Varies

UST: Underground Storage Tank Database

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: 11/18/2016	Source: Department of Health
Date Data Arrived at EDR: 12/02/2016	Telephone: 808-586-4228
Date Made Active in Reports: 01/27/2017	Last EDR Contact: 03/17/2017
Number of Days to Update: 56	Next Scheduled EDR Contact: 06/12/2017
	Data Release Frequency: Semi-Annually

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: 11/14/2016	Source: EPA, Region 1
Date Data Arrived at EDR: 01/26/2017	Telephone: 617-918-1313
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	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: 10/14/2016	Source: EPA Region 4
Date Data Arrived at EDR: 01/27/2017	Telephone: 404-562-9424
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 98	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Semi-Annually

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: 01/14/2017	Source: EPA Region 5
Date Data Arrived at EDR: 01/26/2017	Telephone: 312-886-6136
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	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: 10/01/2016	Source: EPA Region 6
Date Data Arrived at EDR: 01/26/2017	Telephone: 214-665-7591
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 09/01/2016	Source: EPA Region 7
Date Data Arrived at EDR: 01/26/2017	Telephone: 913-551-7003
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	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: 10/17/2016	Source: EPA Region 8
Date Data Arrived at EDR: 01/26/2017	Telephone: 303-312-6137
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Quarterly

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: 10/06/2016	Source: EPA Region 9
Date Data Arrived at EDR: 01/26/2017	Telephone: 415-972-3368
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Quarterly

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: 10/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/26/2017	Telephone: 206-553-2857
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/28/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Quarterly

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Control Sites

A listing of sites with engineering controls in place.

Date of Government Version: 09/23/2016	Source: Department of Health
Date Data Arrived at EDR: 11/22/2016	Telephone: 404-586-4249
Date Made Active in Reports: 12/21/2016	Last EDR Contact: 03/17/2017
Number of Days to Update: 29	Next Scheduled EDR Contact: 06/05/2017
	Data Release Frequency: Varies

INST CONTROL: Sites with Institutional Controls

Voluntary Remediation Program and Brownfields sites with institutional controls in place.

Date of Government Version: 09/23/2016	Source: Department of Health
Date Data Arrived at EDR: 11/22/2016	Telephone: 808-586-4249
Date Made Active in Reports: 12/21/2016	Last EDR Contact: 03/17/2017
Number of Days to Update: 29	Next Scheduled EDR Contact: 06/05/2017
	Data Release Frequency: Varies

State and tribal voluntary cleanup sites

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

VCP: Voluntary Response Program Sites

Sites participating in the Voluntary Response Program. The purpose of the VRP is to streamline the cleanup process in a way that will encourage prospective developers, lenders, and purchasers to voluntarily cleanup properties.

Date of Government Version: 09/23/2016	Source: Department of Health
Date Data Arrived at EDR: 11/22/2016	Telephone: 808-586-4249
Date Made Active in Reports: 12/21/2016	Last EDR Contact: 03/17/2017
Number of Days to Update: 29	Next Scheduled EDR Contact: 06/05/2017
	Data Release Frequency: Varies

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	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 03/27/2017
Number of Days to Update: 142	Next Scheduled EDR Contact: 07/10/2017
	Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

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

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Sites

With certain legal exclusions and additions, the term 'brownfield site' means 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.

Date of Government Version: 09/23/2016	Source: Department of Health
Date Data Arrived at EDR: 11/22/2016	Telephone: 808-586-4249
Date Made Active in Reports: 12/21/2016	Last EDR Contact: 03/17/2017
Number of Days to Update: 29	Next Scheduled EDR Contact: 06/05/2017
	Data Release Frequency: Varies

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: 03/02/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/02/2017	Telephone: 202-566-2777
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 03/02/2017
Number of Days to Update: 36	Next Scheduled EDR Contact: 07/03/2017
	Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

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: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: No Update Planned

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

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 Services, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/14/2017
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: 09/30/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 36

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/28/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: No Update Planned

CDL: Clandestine Drug Lab Listing

A listing of clandestine drug lab site locations.

Date of Government Version: 08/04/2010
Date Data Arrived at EDR: 09/10/2010
Date Made Active in Reports: 10/22/2010
Number of Days to Update: 42

Source: Department of Health
Telephone: 808-586-4249
Last EDR Contact: 03/13/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 09/30/2016	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 12/05/2016	Telephone: 202-307-1000
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 02/28/2017
Number of Days to Update: 67	Next Scheduled EDR Contact: 06/12/2017
	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: 02/18/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/18/2014	Telephone: 202-564-6023
Date Made Active in Reports: 04/24/2014	Last EDR Contact: 04/21/2017
Number of Days to Update: 37	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Varies

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: 12/28/2016	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 12/28/2016	Telephone: 202-366-4555
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 03/29/2017
Number of Days to Update: 37	Next Scheduled EDR Contact: 07/10/2017
	Data Release Frequency: Annually

SPILLS: Release Notifications

Releases of hazardous substances to the environment reported to the Office of Hazard Evaluation and Emergency Response since 1988.

Date of Government Version: 01/14/2016	Source: Department of Health
Date Data Arrived at EDR: 02/24/2016	Telephone: 808-586-4249
Date Made Active in Reports: 04/06/2016	Last EDR Contact: 03/17/2017
Number of Days to Update: 42	Next Scheduled EDR Contact: 06/05/2017
	Data Release Frequency: Varies

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: 03/10/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/11/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

Other Ascertainable Records

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 05/02/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

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

Date of Government Version: 01/31/2015	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 07/08/2015	Telephone: 202-528-4285
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 02/24/2017
Number of Days to Update: 97	Next Scheduled EDR Contact: 06/05/2017
	Data Release Frequency: Varies

DOD: Department of Defense Sites

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

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 04/14/2017
Number of Days to Update: 62	Next Scheduled EDR Contact: 07/24/2017
	Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

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

Date of Government Version: 12/31/2005	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 04/14/2017
Number of Days to Update: 339	Next Scheduled EDR Contact: 07/24/2017
	Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

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

Date of Government Version: 01/01/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/03/2017	Telephone: 615-532-8599
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 02/03/2017
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/29/2017
	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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/13/2017
Date Data Arrived at EDR: 02/15/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 05/17/2017
Next Scheduled EDR Contact: 08/28/2017
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: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
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: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/24/2017
Next Scheduled EDR Contact: 07/03/2017
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: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/24/2017
Next Scheduled EDR Contact: 06/05/2017
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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/26/2017
Next Scheduled EDR Contact: 08/07/2017
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: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
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: 02/01/2017
Date Data Arrived at EDR: 02/09/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 05/09/2017
Next Scheduled EDR Contact: 08/21/2017
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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/20/2016
Date Data Arrived at EDR: 04/28/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 127

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
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: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Quarterly

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: 02/17/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 02/17/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
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: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 01/04/2017
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/06/2017
Next Scheduled EDR Contact: 07/17/2017
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 Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 09/30/2016	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 11/18/2016	Telephone: Varies
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 03/27/2017
Number of Days to Update: 77	Next Scheduled EDR Contact: 07/10/2017
	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: 12/31/2013	Source: EPA/NTIS
Date Data Arrived at EDR: 02/24/2015	Telephone: 800-424-9346
Date Made Active in Reports: 09/30/2015	Last EDR Contact: 02/22/2017
Number of Days to Update: 218	Next Scheduled EDR Contact: 06/05/2017
	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	Source: USGS
Date Data Arrived at EDR: 07/14/2015	Telephone: 202-208-3710
Date Made Active in Reports: 01/10/2017	Last EDR Contact: 04/14/2017
Number of Days to Update: 546	Next Scheduled EDR Contact: 07/24/2017
	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: 12/23/2016	Source: Department of Energy
Date Data Arrived at EDR: 12/27/2016	Telephone: 202-586-3559
Date Made Active in Reports: 02/17/2017	Last EDR Contact: 05/05/2017
Number of Days to Update: 52	Next Scheduled EDR Contact: 08/21/2017
	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: 09/14/2010	Source: Department of Energy
Date Data Arrived at EDR: 10/07/2011	Telephone: 505-845-0011
Date Made Active in Reports: 03/01/2012	Last EDR Contact: 02/21/2017
Number of Days to Update: 146	Next Scheduled EDR Contact: 06/05/2017
	Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/05/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/05/2017	Telephone: 703-603-8787
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 04/21/2017
Number of Days to Update: 36	Next Scheduled EDR Contact: 07/17/2017
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 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	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	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	Source: EPA
Date Data Arrived at EDR: 10/26/2016	Telephone: 202-564-2496
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 03/07/2017
Number of Days to Update: 100	Next Scheduled EDR Contact: 07/10/2017
	Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016	Source: EPA
Date Data Arrived at EDR: 10/26/2016	Telephone: 202-564-2496
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 03/07/2017
Number of Days to Update: 100	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/08/2017	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 02/28/2017	Telephone: 303-231-5959
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 02/28/2017
Number of Days to Update: 38	Next Scheduled EDR Contact: 06/12/2017
	Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005	Source: USGS
Date Data Arrived at EDR: 02/29/2008	Telephone: 703-648-7709
Date Made Active in Reports: 04/18/2008	Last EDR Contact: 03/03/2017
Number of Days to Update: 49	Next Scheduled EDR Contact: 06/12/2017
	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	Source: USGS
Date Data Arrived at EDR: 06/08/2011	Telephone: 703-648-7709
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 03/03/2017
Number of Days to Update: 97	Next Scheduled EDR Contact: 06/12/2017
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 03/14/2017	Source: Department of Interior
Date Data Arrived at EDR: 03/17/2017	Telephone: 202-208-2609
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 03/13/2017
Number of Days to Update: 21	Next Scheduled EDR Contact: 06/26/2017
	Data Release Frequency: Quarterly

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: 04/04/2017	Source: EPA
Date Data Arrived at EDR: 04/07/2017	Telephone: (415) 947-8000
Date Made Active in Reports: 05/12/2017	Last EDR Contact: 04/07/2017
Number of Days to Update: 35	Next Scheduled EDR Contact: 06/19/2017
	Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 03/19/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2017	Telephone: 202-564-2280
Date Made Active in Reports: 05/12/2017	Last EDR Contact: 03/21/2017
Number of Days to Update: 52	Next Scheduled EDR Contact: 07/03/2017
	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: 06/02/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/03/2016	Telephone: 202-564-0527
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 02/24/2017
Number of Days to Update: 91	Next Scheduled EDR Contact: 06/12/2017
	Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015	Source: Department of Defense
Date Data Arrived at EDR: 01/29/2016	Telephone: 571-373-0407
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 04/17/2017
Number of Days to Update: 67	Next Scheduled EDR Contact: 07/31/2017
	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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/22/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 79

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/22/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Quarterly

AIRS: List of Permitted Facilities

A listing of permitted facilities in the state.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/04/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 57

Source: Department of Health
Telephone: 808-586-4200
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Varies

DRYCLEANERS: Permitted Drycleaner Facility Listing

A listing of permitted drycleaner facilities in the state.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/04/2017
Date Made Active in Reports: 03/08/2017
Number of Days to Update: 63

Source: Department of Health
Telephone: 808-586-4200
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Varies

Financial Assurance: Financial Assurance Information Listing

A listing of financial assurance information for underground storage tank 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: 12/16/2016
Date Data Arrived at EDR: 12/20/2016
Date Made Active in Reports: 01/27/2017
Number of Days to Update: 38

Source: Department of Health
Telephone: 808-586-4226
Last EDR Contact: 03/13/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Varies

UIC: Underground Injection Wells Listing

A listing of underground injection well locations.

Date of Government Version: 02/07/2013
Date Data Arrived at EDR: 02/12/2013
Date Made Active in Reports: 04/09/2013
Number of Days to Update: 56

Source: Department of Health
Telephone: 808-586-4258
Last EDR Contact: 02/24/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: Varies

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR Hist Auto: EDR Exclusive Historic Gas 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	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historic Dry 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	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS 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 Health in Hawaii.

Date of Government Version: N/A	Source: Department of Health
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/08/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 191	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

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 Department of Health in Hawaii.

Date of Government Version: N/A	Source: Department of Health
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/17/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 200	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 Health in Hawaii.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 186

Source: Department of Health
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.

Oil/Gas Pipelines

Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Office of Planning

Telephone: 808-587-2895

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

NAALEHU TMK
MAMALAHOA HIGHWAY
NAALEHU, HI 96772

TARGET PROPERTY COORDINATES

Latitude (North):	19.062695 - 19° 3' 45.70"
Longitude (West):	155.576431 - 155° 34' 35.15"
Universal Transverse Mercator:	Zone 5
UTM X (Meters):	228856.2
UTM Y (Meters):	2109630.2
Elevation:	603 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5949274 NAALEHU, HI
Version Date:	2013

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

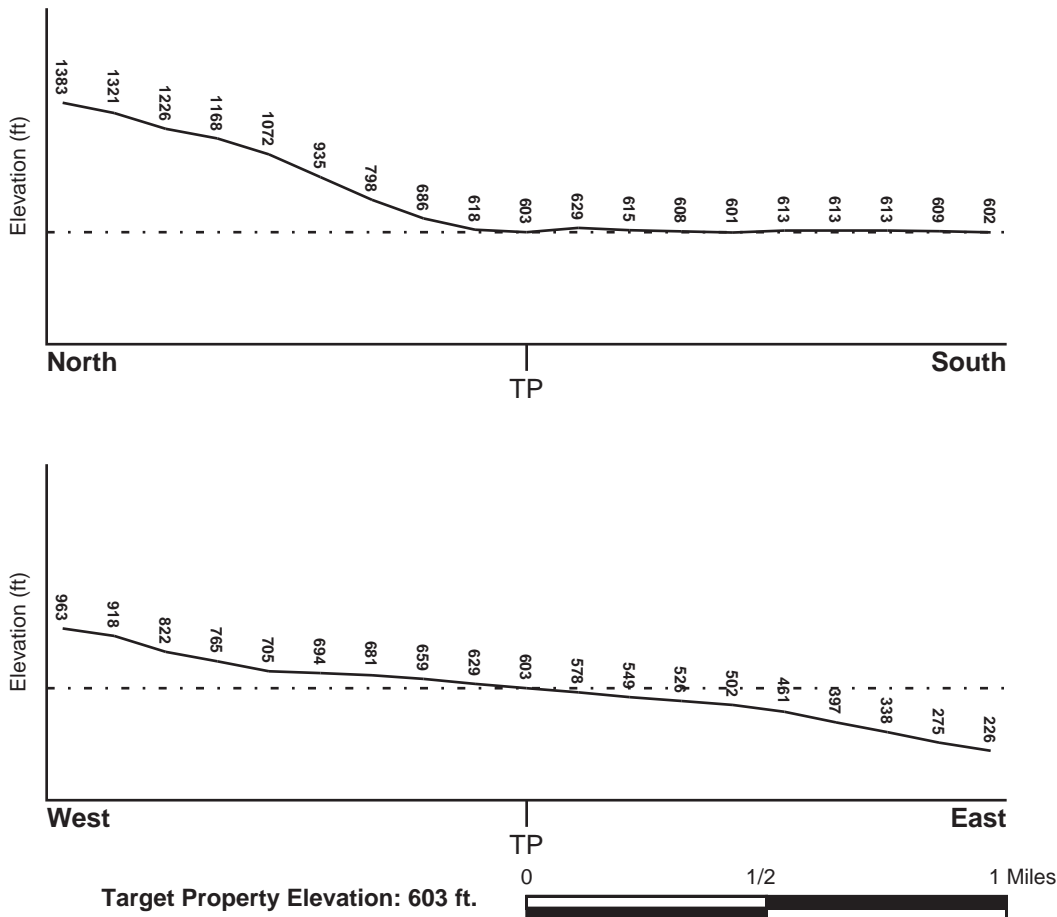
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property FEMA Source Type

Not Reported

Additional Panels in search area: FEMA Source Type

Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property
NAALEHU

NWI Electronic
Data Coverage
YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION</u> <u>FROM TP</u>	<u>GENERAL DIRECTION</u> <u>GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

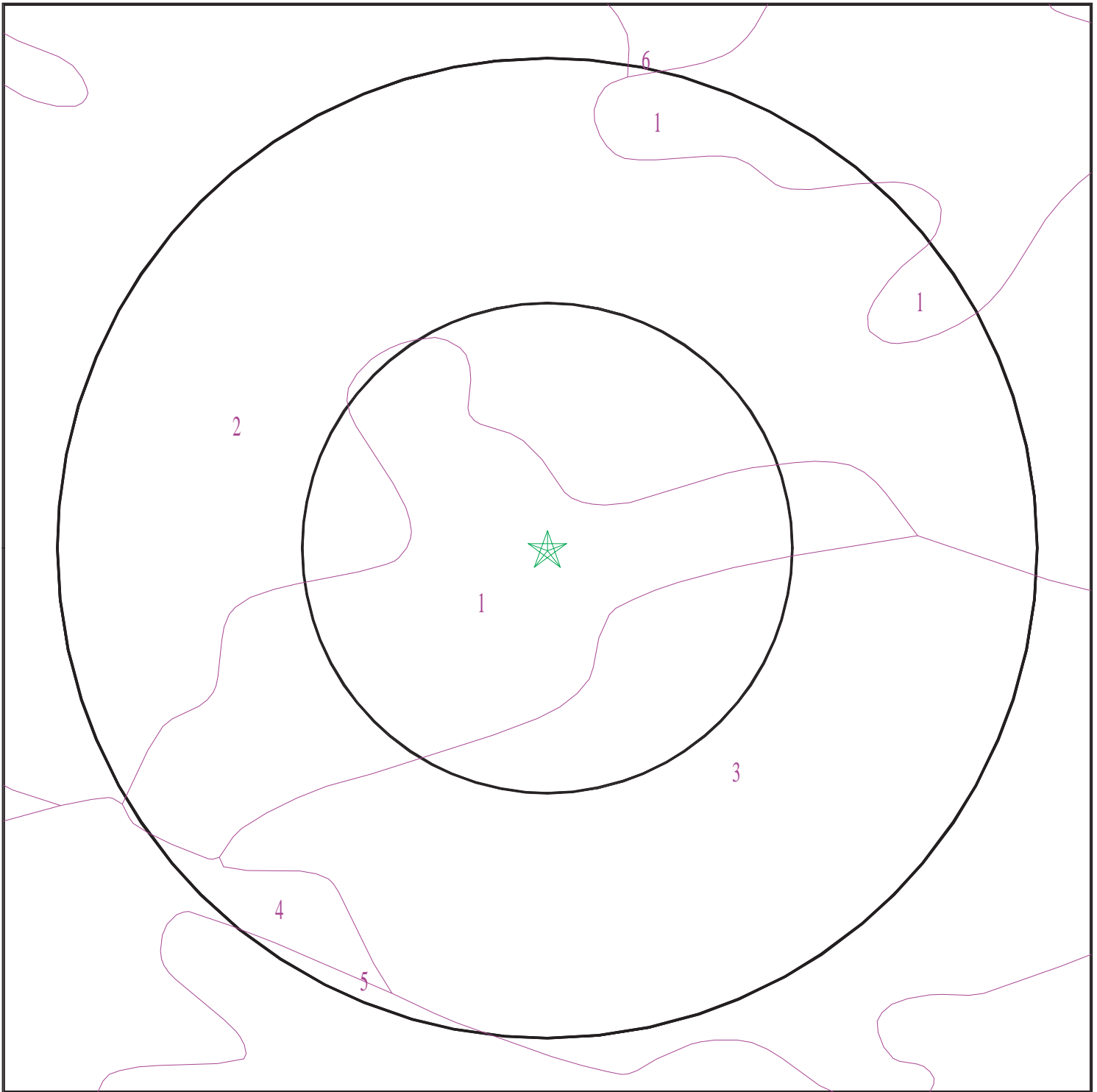
Era: -
System: -
Series: -
Code: N/A (*decoded above as Era, System & Series*)

GEOLOGIC AGE IDENTIFICATION

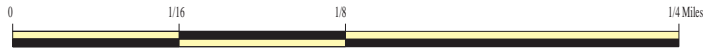
Category: -

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 4945891.2s



- ★ Target Property
- SSURGO Soil
- Water



SITE NAME: Naalehu TMK
ADDRESS: Mamalahoa Highway
Naalehu HI 96772
LAT/LONG: 19.062695 / 155.576431

CLIENT: Brown & Caldwell
CONTACT: Caitlin Shannon
INQUIRY #: 4945891.2s
DATE: May 23, 2017 4:14 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Naalehu

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	20 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	ML-A (proposed)	Max: 42 Min: 4.23	Max: 6.5 Min: 5.6
2	20 inches	64 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	ML-A (proposed)	Max: 14.11 Min: 5	Max: 7.3 Min: 5.6

Soil Map ID: 2

Soil Component Name: Naalehu

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	ML-A (proposed)	Max: 42.34 Min: 5	Max: 6.5 Min: 6.1
2	11 inches	27 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	ML-A (proposed)	Max: 14.11 Min: 1.41	Max: 7.3 Min: 6.6
3	27 inches	37 inches	bedrock	Not reported	Not reported	Max: 0.42 Min: 0.02	Max: Min:

Soil Map ID: 3

Soil Component Name: Very stony land

Soil Surface Texture: extremely stony fine sandy loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 152 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	extremely stony fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 5.6
2	9 inches	59 inches	extremely cobbly material	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Clean gravels, Poorly Graded Gravel. COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel.	Max: 141 Min: 42	Max: 7.8 Min: 5.6

Soil Map ID: 4

Soil Component Name: Punaluu

Soil Surface Texture: peat

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	3 inches	peat	A-8	Highly organic soils, Peat.	Max: 42 Min: 4	Max: Min:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	3 inches	14 inches	bedrock	Not reported	Not reported	Max: 0.42 Min: 0.02	Max: Min:

Soil Map ID: 5

Soil Component Name: Rock land

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 18 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.42 Min: 0.42	Max: 7.3 Min: 6.1
2	7 inches	14 inches	bedrock	Not reported	Not reported	Max: 0.42 Min: 0.02	Max: Min:

Soil Map ID: 6

Soil Component Name: Naalehu

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	20 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4.23	Max: 6.5 Min: 5.6
2	20 inches	64 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14.11 Min: 5	Max: 7.3 Min: 5.6

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

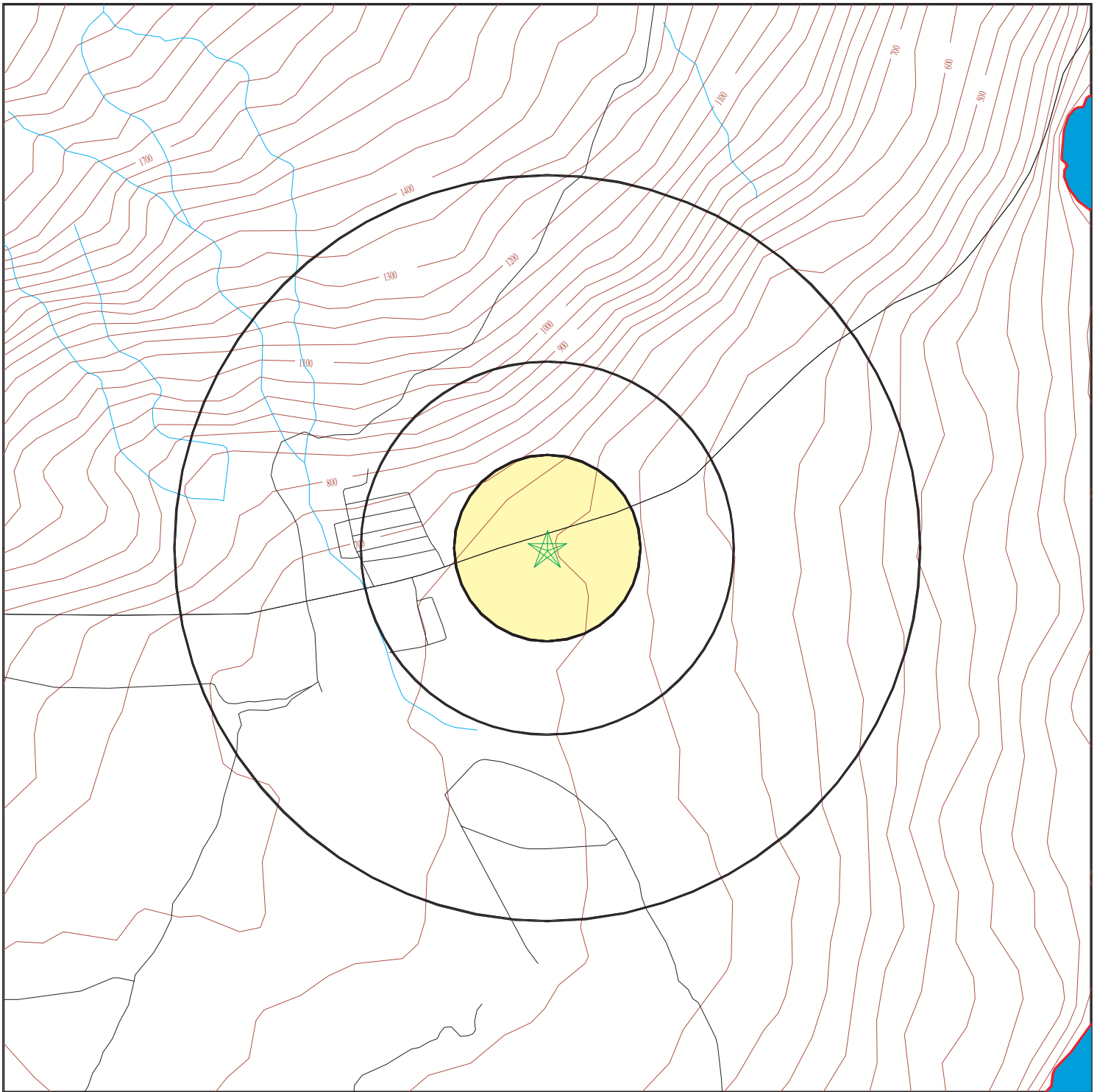
MAP ID








WELL ID

LOCATION
FROM TP




No Wells Found

PHYSICAL SETTING SOURCE MAP - 4945891.2s



-  County Boundary
-  Major Roads
-  Contour Lines
-  Earthquake epicenter, Richter 5 or greater
-  Water Wells
-  Public Water Supply Wells
-  Cluster of Multiple Icons



-  Groundwater Flow Direction
-  Indeterminate Groundwater Flow at Location
-  Groundwater Flow Varies at Location



SITE NAME: Naalehu TMK
 ADDRESS: Mamalahoa Highway
 Naalehu HI 96772
 LAT/LONG: 19.062695 / 155.576431

CLIENT: Brown & Caldwell
 CONTACT: Caitlin Shannon
 INQUIRY #: 4945891.2s
 DATE: May 23, 2017 4:14 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for HAWAII County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 96772

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.300 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Office of Planning

Telephone: 808-587-2895

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Well Index Database

Source: Commission on Water Resource Management

Telephone: 808-587-0214

CWRM maintains a Well Index Database to track specific information pertaining to the construction and installation of production wells in Hawaii

OTHER STATE DATABASE INFORMATION

RADON

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Appendix D: Historical Research Documentation

Naalehu TMK
Mamalahoa Highway
Naalehu, HI 96772

Inquiry Number: 4945891.9

May 23, 2017

The EDR Aerial Photo Decade Package



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

EDR Aerial Photo Decade Package

05/23/17

Site Name:

Naalehu TMK
Mamalahoa Highway
Naalehu, HI 96772
EDR Inquiry # 4945891.9

Client Name:

Brown & Caldwell
220 Athens Way Suite 500
Nashville, TN 37228
Contact: Caitlin Shannon



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2001	1"=500'	Acquisition Date: April 27, 2001	USGS/DOQQ
1992	1"=500'	Flight Date: September 23, 1992	USGS
1985	1"=500'	Flight Date: November 02, 1985	USGS
1978	1"=500'	Flight Date: January 19, 1978	USGS
1965	1"=500'	Flight Date: March 02, 1965	USGS
1954	1"=500'	Flight Date: October 08, 1954	USGS

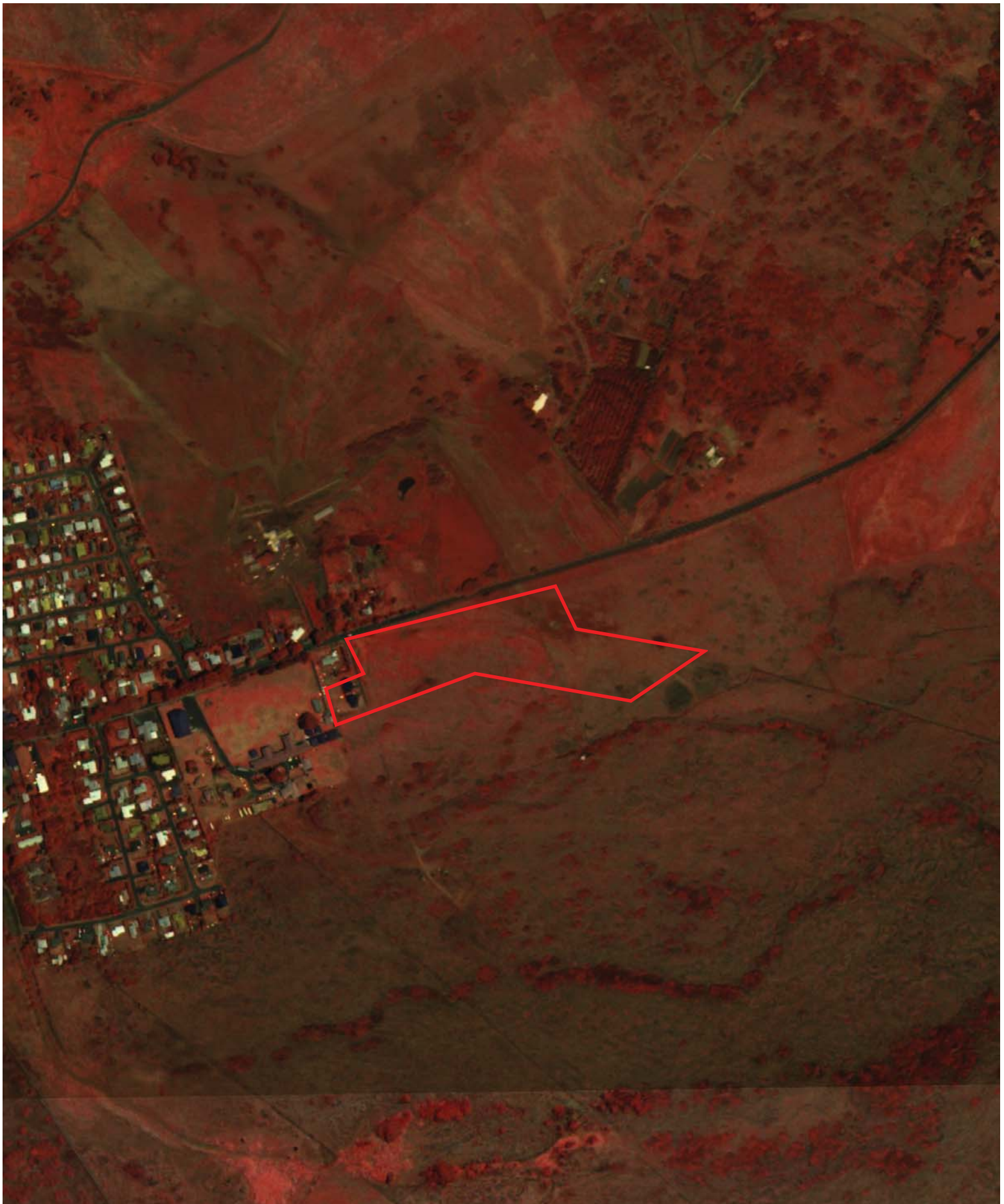
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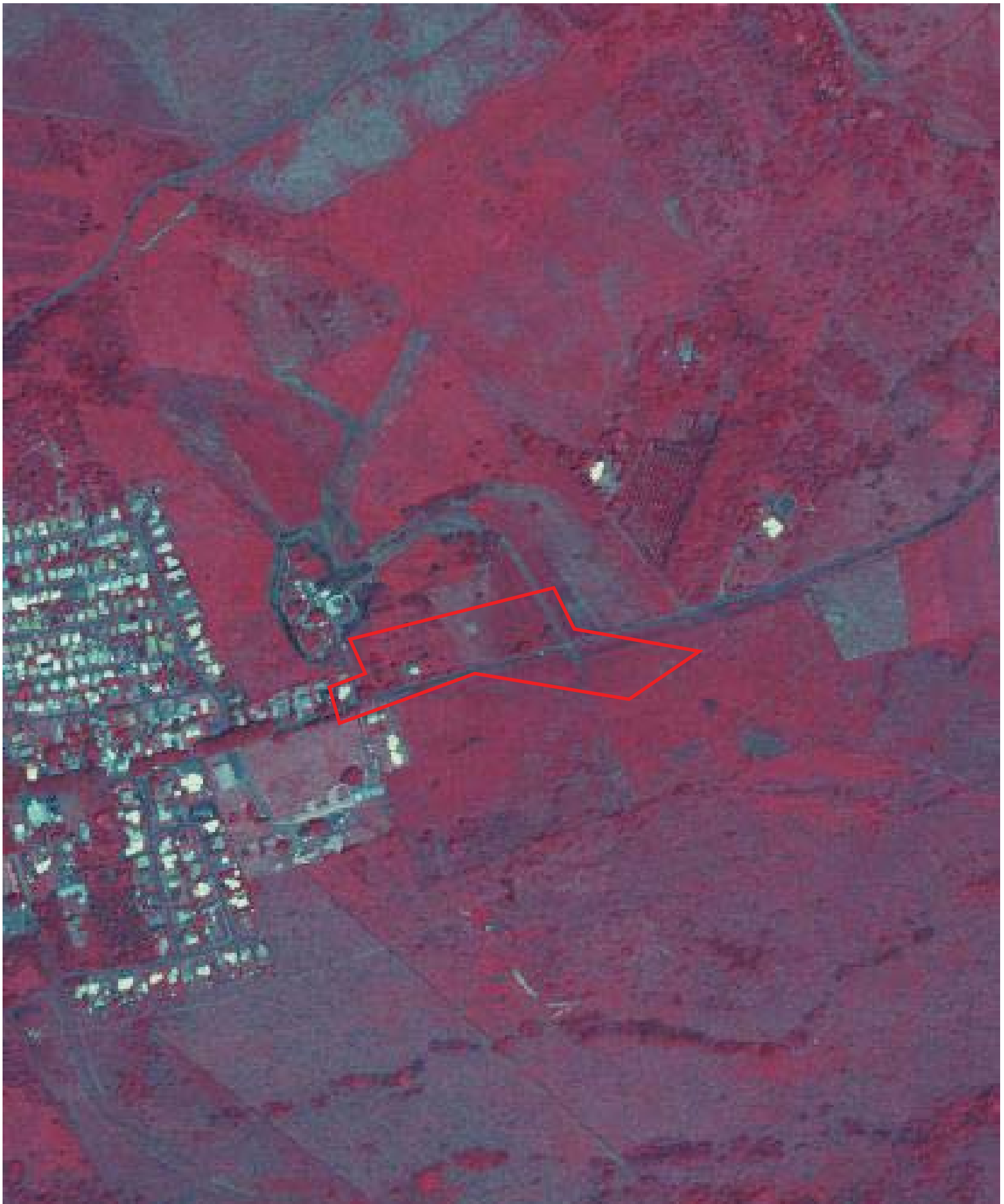


INQUIRY #: 4945891.9

YEAR: 2001

— = 500'





INQUIRY #: 4945891.9

YEAR: 1992

— = 500'



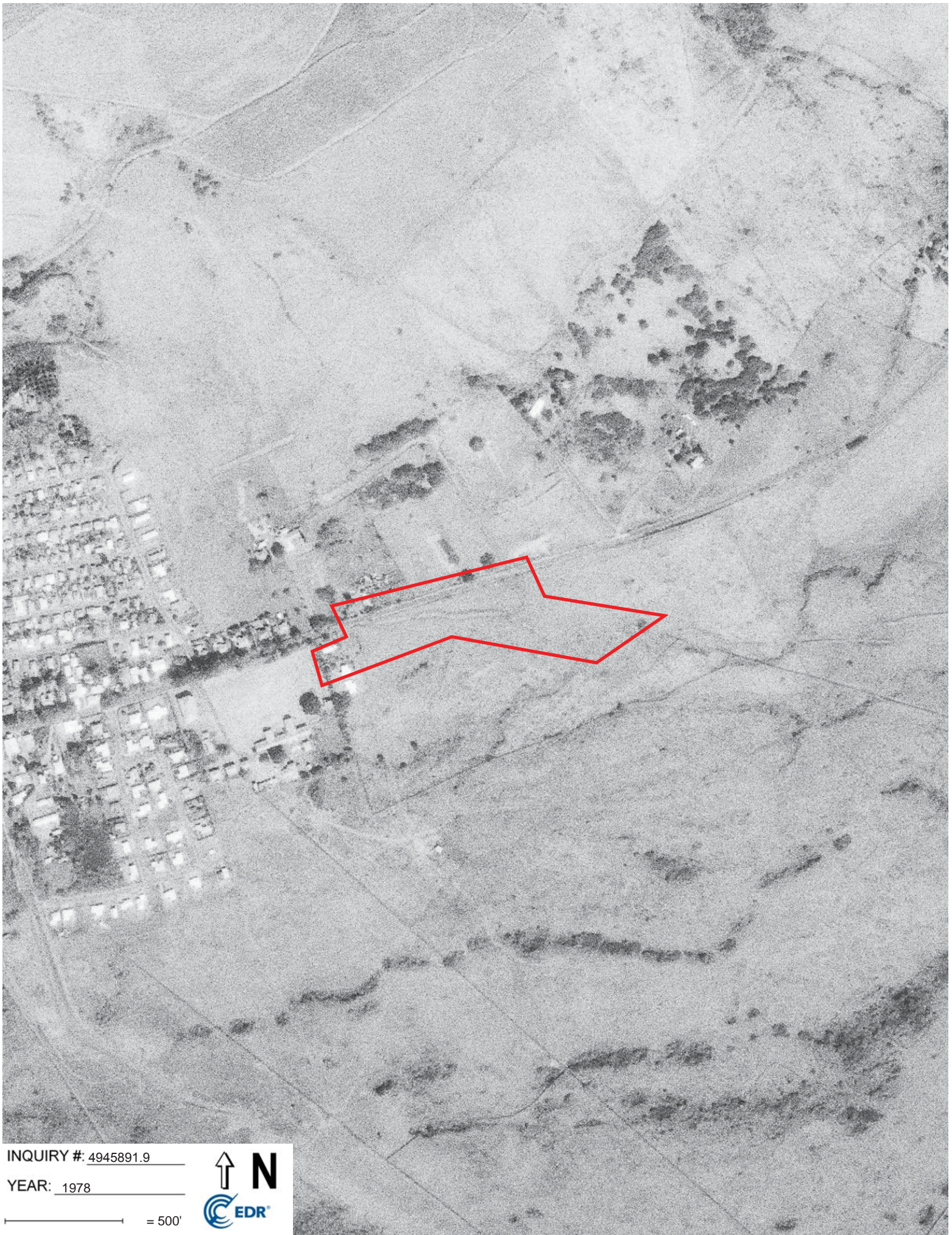


INQUIRY #: 4945891.9

YEAR: 1985

— = 500'





INQUIRY #: 4945891.9

YEAR: 1978

— = 500'





INQUIRY #: 4945891.9

YEAR: 1965

— = 500'





INQUIRY #: 4945891.9

YEAR: 1954

 = 500'



Naalehu TMK
Mamalahoa Highway
Naalehu, HI 96772

Inquiry Number: 4945891.4

May 23, 2017

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

05/23/17

Site Name:

Naalehu TMK
Mamalaho Highway
Naalehu, HI 96772
EDR Inquiry # 4945891.4

Client Name:

Brown & Caldwell
220 Athens Way Suite 500
Nashville, TN 37228
Contact: Caitlin Shannon



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Brown & Caldwell 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. EDR's 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:	19.062695 19° 3' 46" North
Project:	Naalehu TMK	Longitude:	-155.576431 -155° 34' 35" West
		UTM Zone:	Zone 5 North
		UTM X Meters:	228860.26
		UTM Y Meters:	2109756.52
		Elevation:	599.86' above sea level

Maps Provided:

2013
1995
1981
1962
1924
1921

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Topo Sheet Key

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

2013 Source Sheets



Naalehu

7.5-minute, 24000

1995 Source Sheets



Naalehu

7.5-minute, 24000
Aerial Photo Revised 1995

1981 Source Sheets



Naalehu

7.5-minute, 24000
Aerial Photo Revised 1977

1962 Source Sheets



Naalehu

7.5-minute, 24000
Aerial Photo Revised 1954

Topo Sheet Key

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

1924 Source Sheets



Honuapo

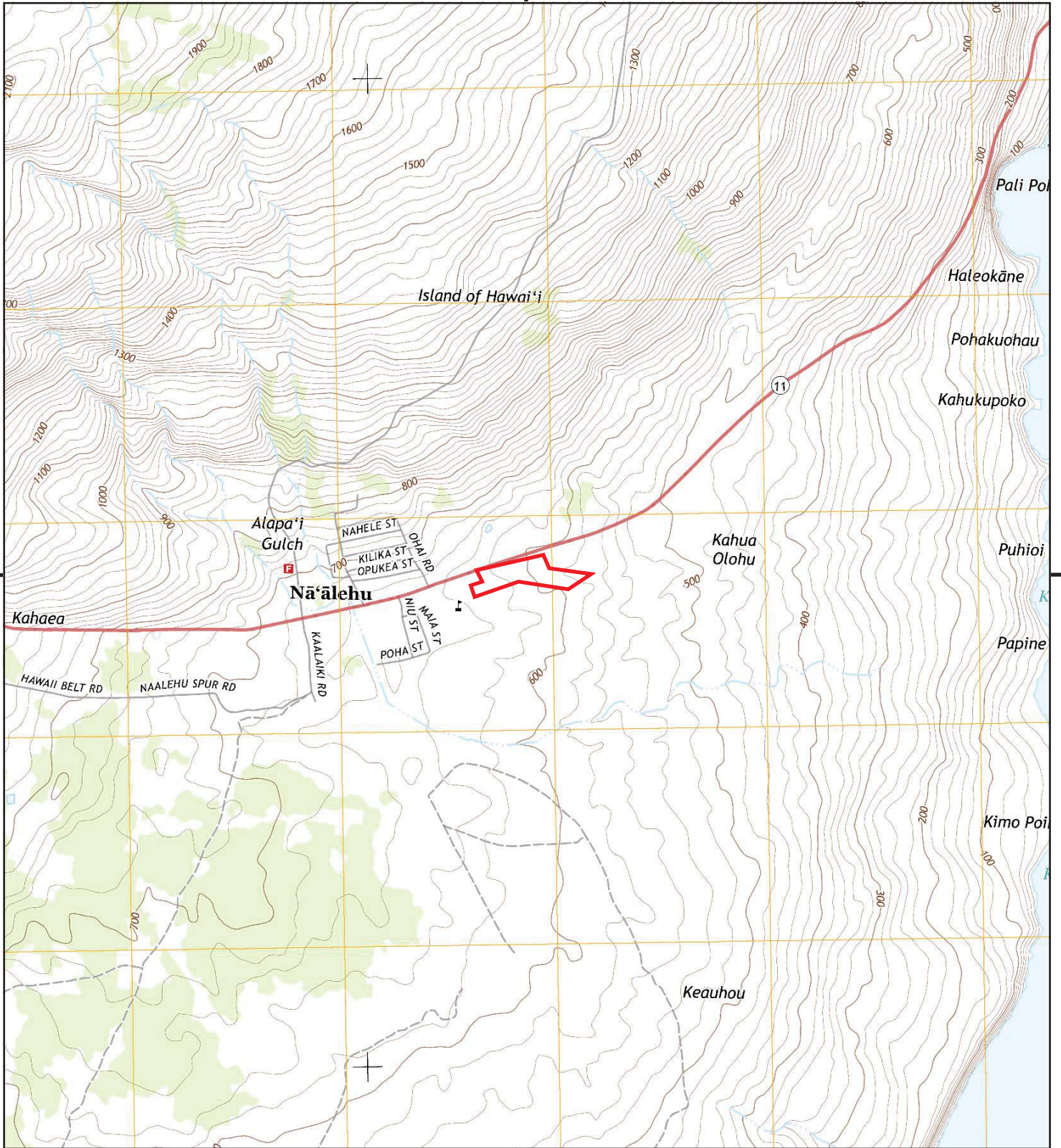
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1921 Source Sheets

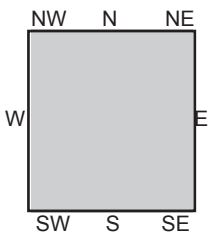
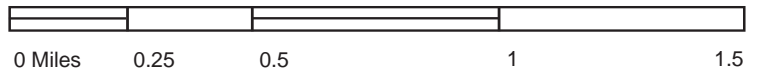


NAALEHU

7.5-minute, 31680



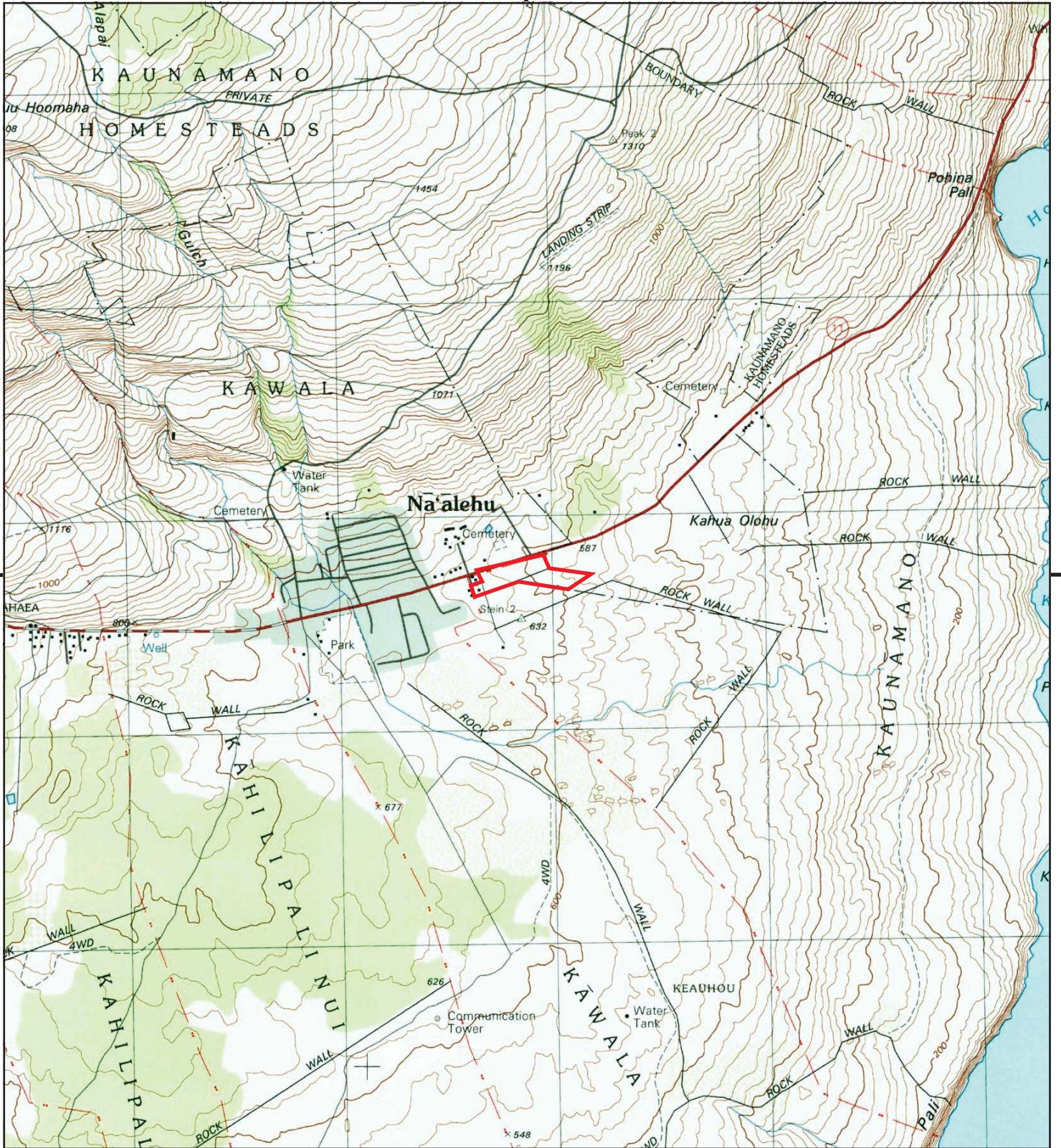
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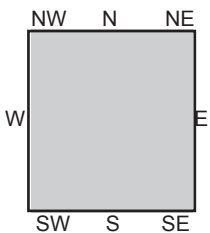
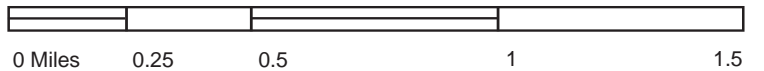
TP, Naalehu, 2013, 7.5-minute

SITE NAME: Naalehu TMK
ADDRESS: Mamalahoa Highway
 Naalehu, HI 96772
CLIENT: Brown & Caldwell





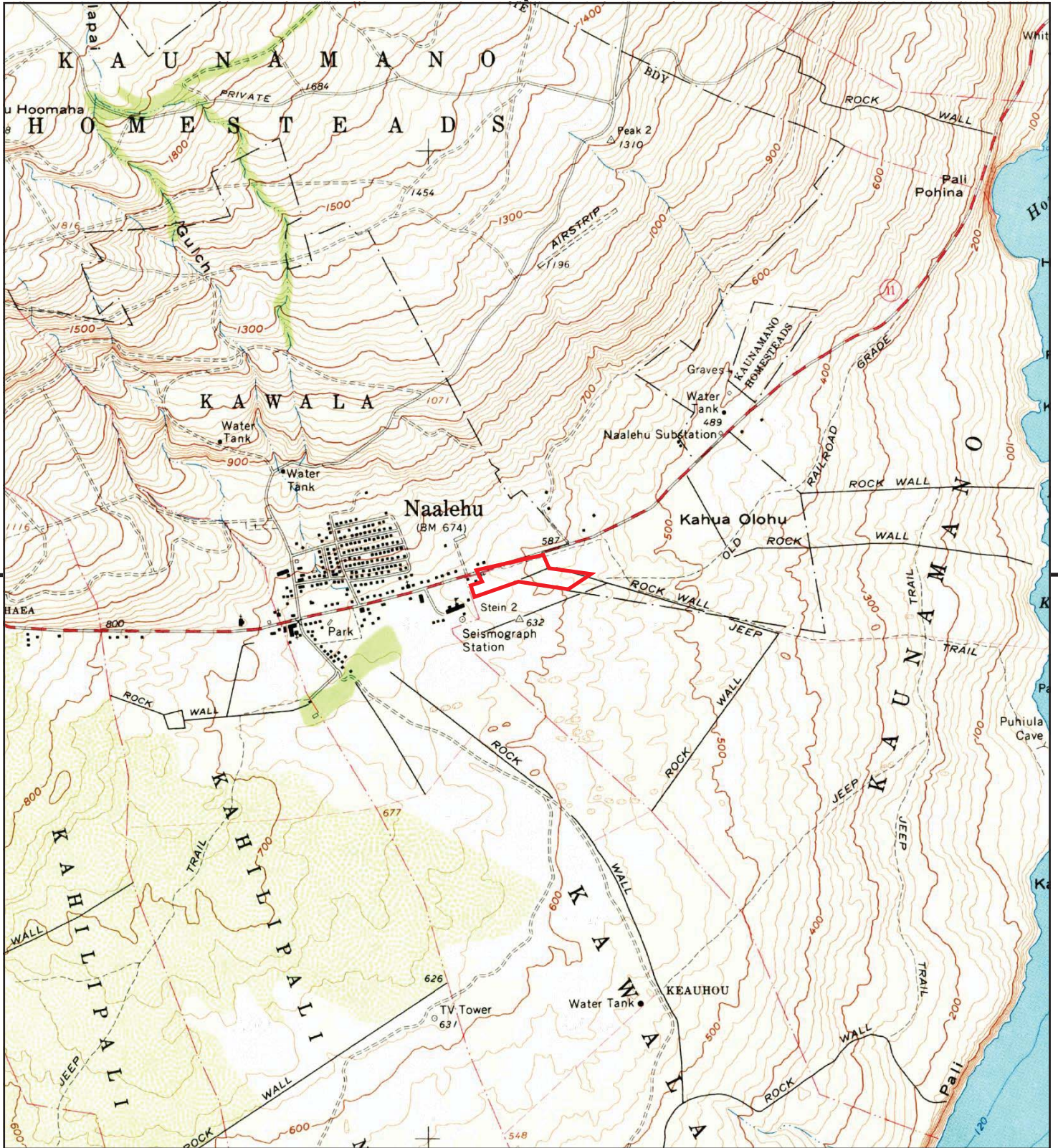
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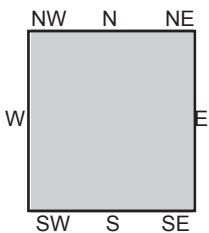
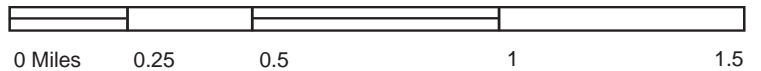
TP, Naalehu, 1995, 7.5-minute

SITE NAME: Naalehu TMK
ADDRESS: Mamalahoa Highway
 Naalehu, HI 96772
CLIENT: Brown & Caldwell





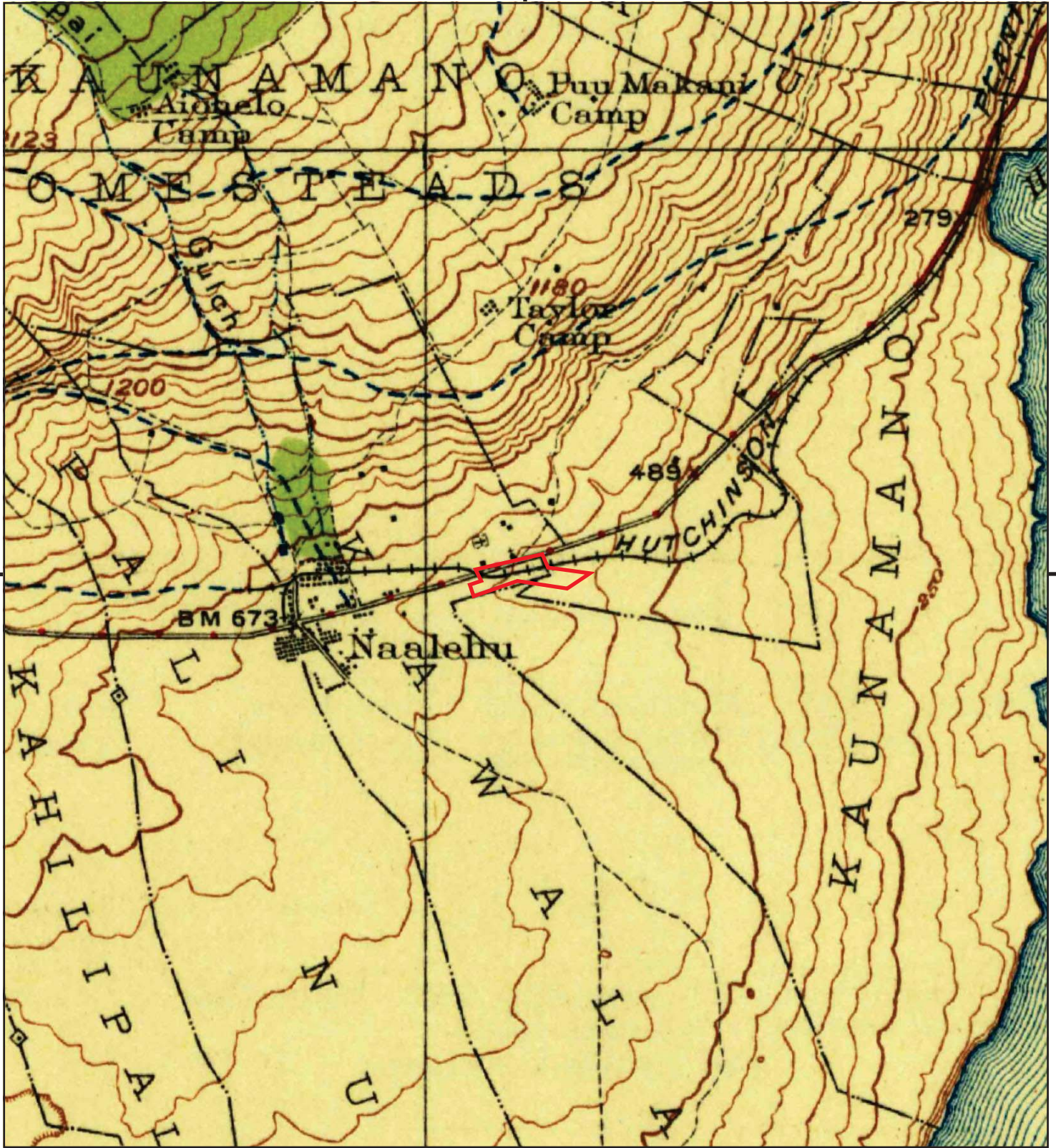
This report includes information from the following map sheet(s).



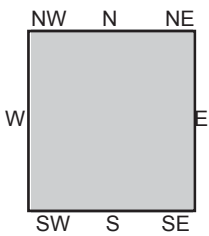
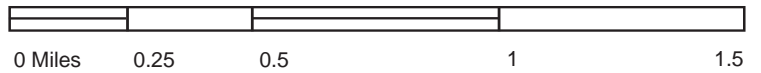
TP, Naalehu, 1962, 7.5-minute

SITE NAME: Naalehu TMK
 ADDRESS: Mamalahoa Highway
 Naalehu, HI 96772
 CLIENT: Brown & Caldwell





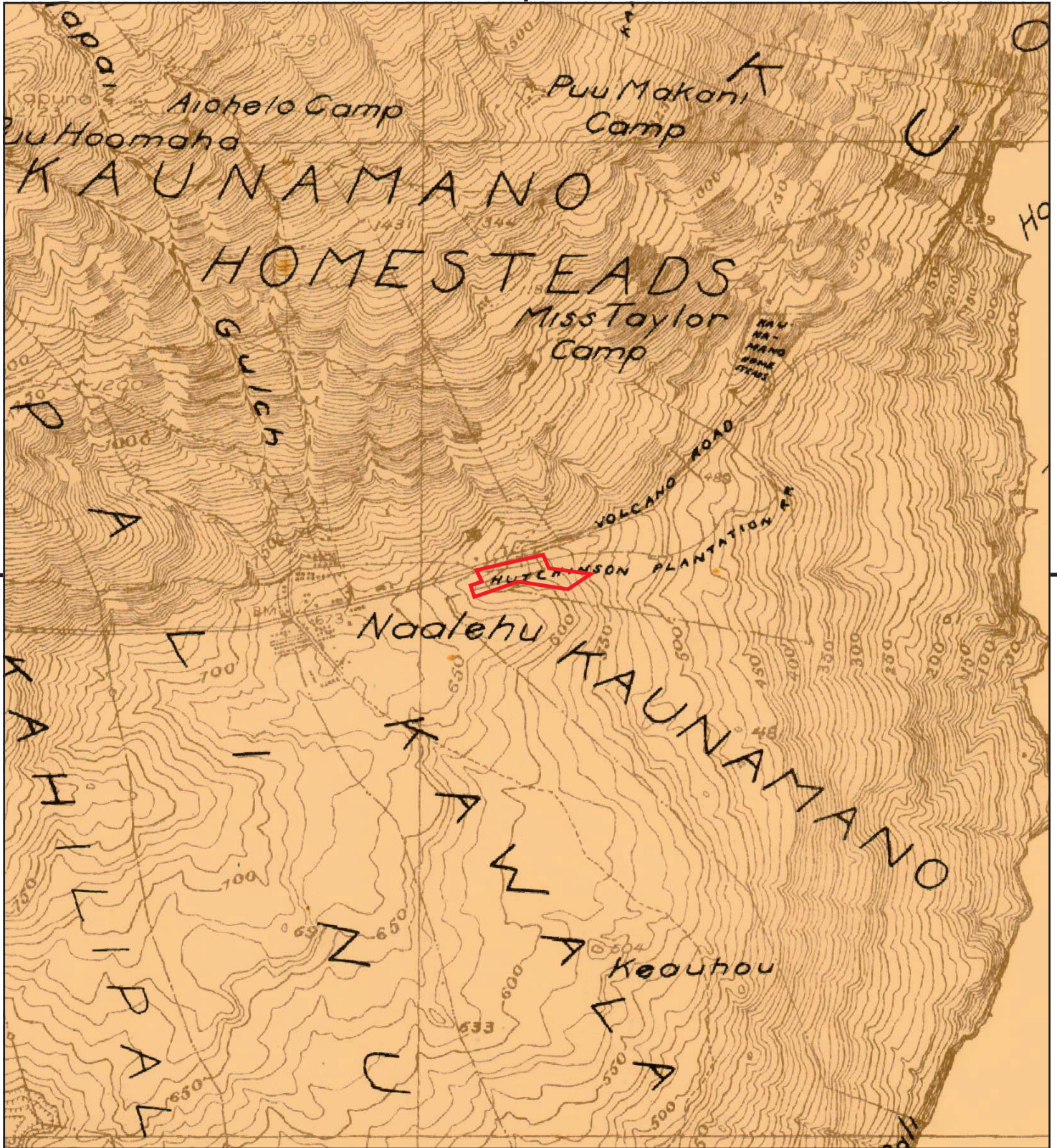
This report includes information from the following map sheet(s).



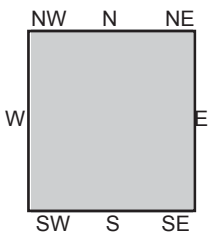
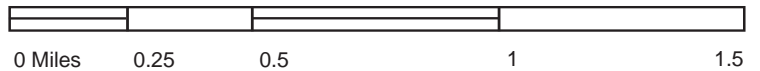
TP, Honuapo, 1924, 15-minute

SITE NAME: Naalehu TMK
 ADDRESS: Mamalahoa Highway
 Naalehu, HI 96772
 CLIENT: Brown & Caldwell





This report includes information from the following map sheet(s).



TP, NAALEHU, 1921, 7.5-minute

SITE NAME: Naalehu TMK
 ADDRESS: Mamalahoa Highway
 Naalehu, HI 96772
 CLIENT: Brown & Caldwell



Naalehu TMK

Mamalahoa Highway
Naalehu, HI 96772

Inquiry Number: 4945891.5
May 24, 2017

The EDR-City Directory Image Report

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SECTION

Executive Summary

Findings

City Directory Images

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

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.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2013	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
2008	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
1999	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
1995	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
1992	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services

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FINDINGS

TARGET PROPERTY STREET

Mamalahoa Highway
Naalehu, HI 96772

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
-------------	-----------------	---------------

MAMALAHOA HWY

2013	pg A1	Cole Information Services
2008	pg A2	Cole Information Services
2003	pg A3	Cole Information Services
1999	pg A4	Cole Information Services
1995	pg A5	Cole Information Services
1992	pg A6	Cole Information Services

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

MAMALAHOA HWY 2013

1	NAALEHU ACE HARDWARE
92	WOOD HALE
94	ELIZABETH JENKINS EUGENE STREHLER JESSICA REIMANN ROY KAMITAKI TOM FAVARA
95	CHARLES SAKAMOTO CLIFFORD SERRAO DAVID KAWAUCHI ERNEST BREITHAAPT EVA THOMPSON HOPE YONEMITSU JAMES PEDRO KEVIN BROWN LESTER DUNN MANUEL MARQUES NELSON YOUNG TOKUICHI NAKANO VERNA KAAWA YOLAN JARDINE
98	JAMES GRADY
8254	CRISTO IGLESIA IGLESIA NI CRISTO
929122	HALE WOOD
937140	GLORIA ILAGAN
937197	TAWHIRI POWER LLC
946335	ALLEN BARRE
946412	VOLCANO RELOADING COMPONENTS LLC
946568	ROBERT KRIPPS
946578	EILEEN NEWCOMB
954968	KAU FARM & RANCH CO LLC
955591	76 WIKIWIKI 7 UNION 76
955600	THE NATURE CONSERVANCY
955657	ISLAND MARKET LAND OFFICE LLC THE WILL & GRACE FILIPINO VARIETY STORE
955669	NAALEHU PUBLIC LIBRARY
955673	SOUTH SIDE SHAKA RESTAURANT & BAR
955801	WILLIAM REED
955867	JENNIFER EISENHART
955873	JAMES KUAHIWINUI
955971	KUAHIWI CONTRACTORS INC
956045	YUEN WONG
956097	ROBERT WHITE
956131	KA U WALLY YOUNGS REPAIR

MAMALAHOA HWY 2008

929122 WOOD HALE
937136 CARL BREDHOFF
946287 ROY KAMITAKI
946335 ALLEN BARRE
946568 ROBERT KRIPPS
946578 EILEEN NEWCOMB
946585 JESSICA REIMANN
951410 JONI JARRELL
955587 AINYAHIT URAN
955600 STEVEN KEEZER
955630 JAMES PEDRO
955635 N WISEHEART
955649 MARCIA JOHNSON
955657 ROLLIE LITTERAL
SHARON MADSON
SUSAN SHRINER
955663 UNITED STATES POSTAL SERVICE
955679 RUEBEN PUBLICO
955797 TOKUICHI NAKANO
955895 CHARLES SAKAMOTO
956149 ERNEST BREITHAUPT
986347 JAMES GRADY



-

MAMALAHOA HWY 2003

9501 GEOFFREY SWEENEY
946279 WILLIAM YOUNGREN
946287 ROY KAMITAKI
946526 K WOLFGANG
955239 DAMIEN JARDINE
955598 RANDALL MOCHIZUKI
955630 JAMES PEDRO
955649 MARCIA JOHNSON
955781 IWAO YONEMITSU
955797 TOKUICHI NAKANO
955867 F ARNOLD
955895 ELLA SAKAMOTO
956007 ALBERT NAKANO
956125 VERNA KAAWA
956149 ERNEST BREITHAUPT
986347 JAMES GRADY



-

MAMALAHOA HWY 1999

928395 LIKEKES KA LAE GARDEN
946279 WILLIAM YOUNGREN
955239 DAMIEN JARDINE
955323 JEHOVAHS WITNESSES NAALEHU CONGREGATION
955781 IWAO YONEMITSU
955797 T NAKANO
955895 ELLA SAKAMOTO
956007 ALBERT NAKANO
956131 KAU WALLY YOUNGS REPAIR
956149 ERNEST BREITHAUPT
986097 KLAUS BRANICKI



-

MAMALAHOA HWY 1995

0	SMITH, WALTER
955	TAKEMOTO, JAMES H
8254	IGLESIA NI CRISTO
955591	DIAMOND R VIDEO
956149	BREITHAUPT, ERNEST M
985649	KAAPANA, RALPH
985867	SAPLAN, A R



-

MAMALAHOA HWY 1992

0

GRACE, J
SMITH, WALTER

Naalehu TMK
Mamalahoa Highway
Naalehu, HI 96772

Inquiry Number: 4945891.3

May 23, 2017

Certified Sanborn® Map Report



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

Certified Sanborn® Map Report

05/23/17

Site Name:

Naalehu TMK
Mamalaho Highway
Naalehu, HI 96772
EDR Inquiry # 4945891.3

Client Name:

Brown & Caldwell
220 Athens Way Suite 500
Nashville, TN 37228
Contact: Caitlin Shannon



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Certified Sanborn Results:

Certification # 32A9-4EE9-B8E9

PO # NA

Project Naalehu TMK

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: 32A9-4EE9-B8E9

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

The Sanborn Library LLC Since 1866™

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Appendix E: VES Report

Naalehu TMK

Mamalahoa Highway

Naalehu, HI 96772

Inquiry Number: 4945891.6s

August 23, 2017

EDR Vapor Encroachment Screen

Prepared using EDR's Vapor Encroachment Worksheet

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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 the ASTM Standard Practice for Assessment of Vapor Encroachment into Structures on Property Involved in Real Estate Transactions (E 2600).

	Maximum Search Distance*	Summary		
		property	1/10	1/10 - 1/3
ENVIRONMENTAL RECORDS				
Federal NPL site list	0.333	0	0	0
Federal CERCLIS list	0.333	0	0	0
Federal RCRA CORRACTS facilities list	0.333	0	0	0
Federal RCRA TSD facilities list	0.333	0	0	0
Federal RCRA generators list	property	0	-	-
Federal institutional controls / engineering controls registries	0.333	0	0	0
Federal ERNS list	property	0	-	-
State and tribal - equivalent NPL	not searched	-	-	-
State and tribal - equivalent CERCLIS	0.333	0	0	2
State and tribal landfill / solid waste disposal	0.333	0	0	0
State and tribal leaking storage tank lists	0.333	0	1	1
State and tribal registered storage tank lists	property	0	-	-
State and tribal institutional control / engineering control registries	property	0	-	-
State and tribal voluntary cleanup sites	0.333	0	0	0
State and tribal Brownfields sites	0.333	0	0	1
Other Records	0.333	0	1	1
HISTORICAL USE RECORDS				
Former Manufactured Gas Plants	0.333	0	0	0
Historical Gas Stations	0.125	0	0	0
Historical Dry Cleaners	0.125	0	0	0
Exclusive Recovered Govt. Archives	property	0	-	-

*Each category may include several separate databases, each having a different search distance. For each category, the table reports the maximum search distance applied. See the section 'Record Sources and Currency' for information on individual databases.

EXECUTIVE SUMMARY

TARGET PROPERTY INFORMATION

ADDRESS

NAALEHU TMK
MAMALAHOA HIGHWAY
NAALEHU, HI 96772

COORDINATES

Latitude (North):	19.062695 - 19° 3' 45.70038"
Longitude (West):	155.576431 - 155° 34' 35.152588"
Elevation:	603 ft. above sea level

EXECUTIVE SUMMARY

PHYSICAL SETTING INFORMATION

Flood Zone: Available
 NWI Wetlands: Available

AQUIFLOW®

Search Radius: 0.333 Mile.

No Aquiflow sites reported.

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Naalehu
 Soil Surface Texture: silty clay loam
 Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
 Soil Drainage Class: Well drained
 Hydric Status: Not hydric
 Corrosion Potential - Uncoated Steel: Moderate
 Depth to Bedrock Min: > 0 inches
 Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	20 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	ML-A (proposed)	Max: 42 Min: 4.23	Max: 6.5 Min: 5.6

EXECUTIVE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	20 inches	64 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	ML-A (proposed)	Max: 14.11 Min: 5	Max: 7.3 Min: 5.6

Soil Map ID: 2

Soil Component Name: Naalehu

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	ML-A (proposed)	Max: 42.34 Min: 5	Max: 6.5 Min: 6.1
2	11 inches	27 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	ML-A (proposed)	Max: 14.11 Min: 1.41	Max: 7.3 Min: 6.6

EXECUTIVE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
3	27 inches	37 inches	bedrock	Not reported	Not reported	Max: 0.42 Min: 0.02	Max: Min:

Soil Map ID: 3

Soil Component Name: Very stony land

Soil Surface Texture: extremely stony fine sandy loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 152 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	extremely stony fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 5.6
2	9 inches	59 inches	extremely cobbly material	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Clean gravels, Poorly Graded Gravel. COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel.	Max: 141 Min: 42	Max: 7.8 Min: 5.6

EXECUTIVE SUMMARY

Soil Map ID: 4

Soil Component Name: Punaluu

Soil Surface Texture: peat

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	3 inches	peat	A-8	Highly organic soils, Peat.	Max: 42 Min: 4	Max: Min:
2	3 inches	14 inches	bedrock	Not reported	Not reported	Max: 0.42 Min: 0.02	Max: Min:

Soil Map ID: 5

Soil Component Name: Rock land

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 18 inches

Depth to Watertable Min: > 0 inches

EXECUTIVE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.42 Min: 0.42	Max: 7.3 Min: 6.1
2	7 inches	14 inches	bedrock	Not reported	Not reported	Max: 0.42 Min: 0.02	Max: Min:

Soil Map ID: 6

Soil Component Name: Naalehu

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	20 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4.23	Max: 6.5 Min: 5.6
2	20 inches	64 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14.11 Min: 5	Max: 7.3 Min: 5.6

EXECUTIVE SUMMARY

Soil Map ID: 7

Soil Component Name: Naalehu

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	20 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4.23	Max: 6.5 Min: 5.6
2	20 inches	64 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14.11 Min: 5	Max: 7.3 Min: 5.6

Soil Map ID: 8

Soil Component Name: Lava flows, aa

Soil Surface Texture: extremely stony material

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

EXECUTIVE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 152 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	59 inches	extremely stony material	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Clean gravels, Poorly Graded Gravel.	Max: 700 Min: 141	Max: Min:

EXECUTIVE SUMMARY

SEARCH RESULTS

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

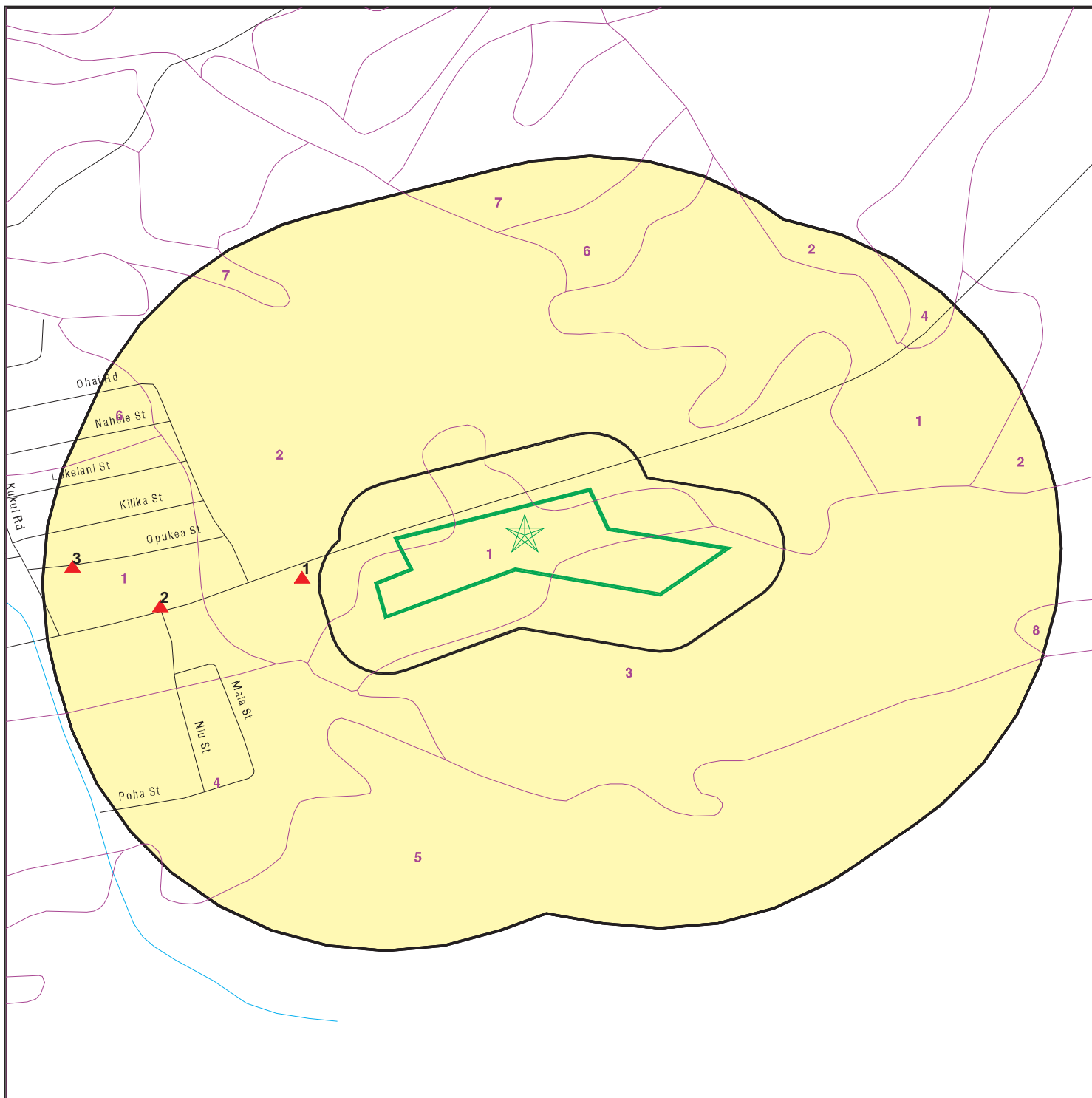
ENVIRONMENTAL RECORDS








<u>Name</u>	<u>Address</u>	<u>Dist/Dir</u>	<u>Map ID</u>	<u>Page</u>
FAST FUELS II UST: State and tribal registered storage tank lists Financial Assurance: Other Standard Environmental Records LUST: State and tribal leaking storage tank lists	95-5591 MAMALAHOA HWY	<1/10 WSW	▲ 1	14
GETTA MALLICK UST: State and tribal registered storage tank lists SHWS: State and tribal - equivalent CERCLIS LUST: State and tribal leaking storage tank lists SPILLS: Other Standard Environmental Records INST CONTROL: State and tribal institutional control / engineering control registries ENG CONTROLS: State and tribal institutional control / engineering control registries	95-5572 MAMALAHOA HWY	1/10 - 1/3 WSW	▲ 2	18
RESIDENTIAL PROPERTY 95-5579 OPUKEA STREET SHWS: State and tribal - equivalent CERCLIS BROWNFIELDS: State and tribal Brownfields sites	95-5579 OPUKEA ST	1/10 - 1/3 W	▲ 3	21

HISTORICAL USE RECORDS

<u>Name</u>	<u>Address</u>	<u>Dist/Dir</u>	<u>Map ID</u>	<u>Page</u>
Not Reported				





PRIMARY MAP - 4945891.6S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites



 Indian Reservations BIA

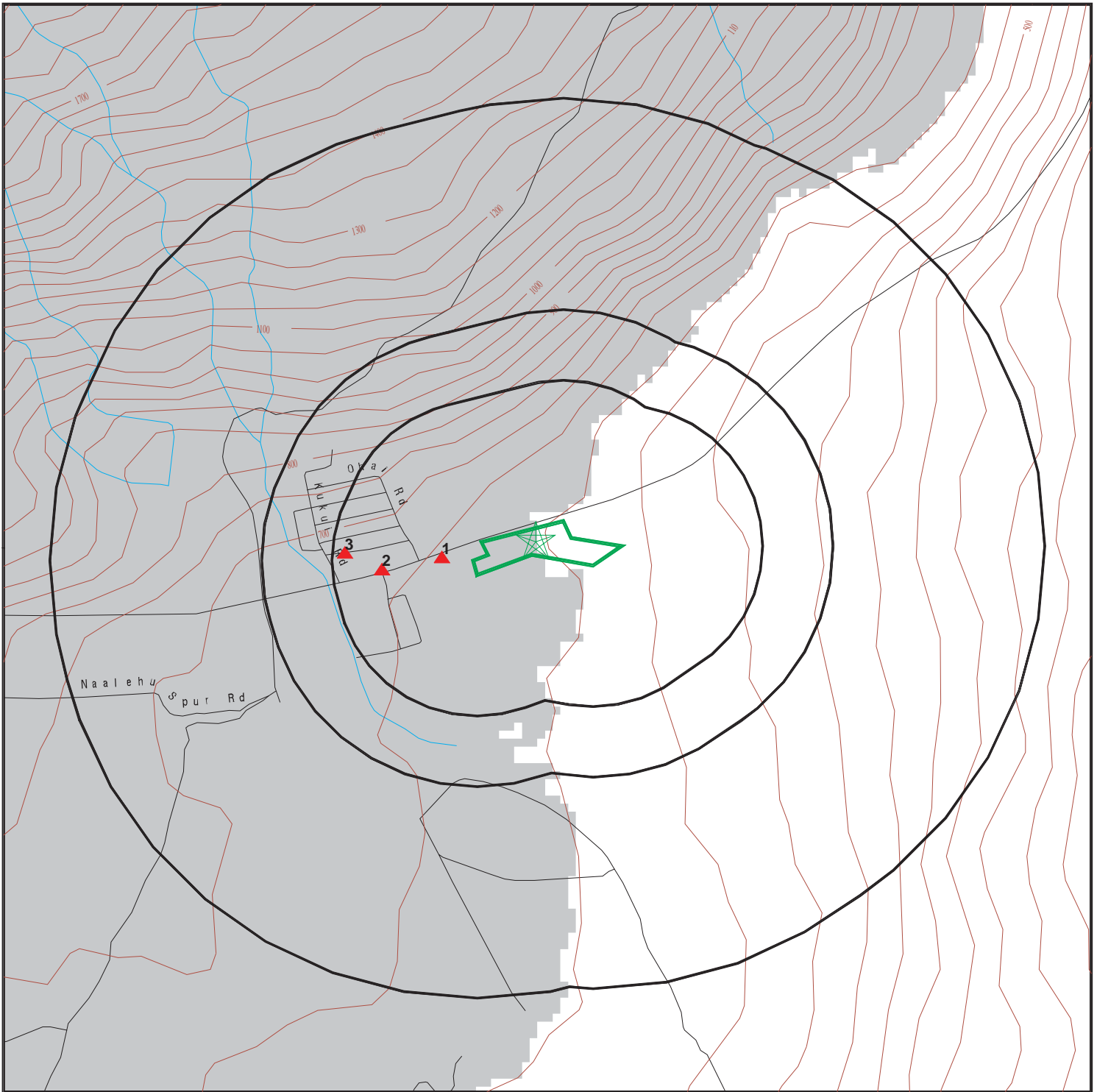
-  Groundwater Flow Direction
-  Indeterminate Groundwater Flow at Location
-  Groundwater Flow Varies at Location
-  SSURGO Soil



SITE NAME: Naalehu TMK
 ADDRESS: Mamalahoa Highway
 Naalehu HI 96772
 LAT/LONG: 19.062695 / 155.576431

CLIENT: Brown & Caldwell
 CONTACT: Caitlin Shannon
 INQUIRY #: 4945891.6s
 DATE: May 23, 2017 7:17 pm

SECONDARY MAP - 4945891.6S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites



Indian Reservations BIA

Upgradient Area

Contour Lines



SITE NAME: Naalehu TMK
 ADDRESS: Mamalahoa Highway
 Naalehu HI 96772
 LAT/LONG: 19.062695 / 155.576431

CLIENT: Brown & Caldwell
 CONTACT: Caitlin Shannon
 INQUIRY #: 4945891.6s
 DATE: May 23, 2017 7:13 pm

MAP FINDINGS

LEGEND

FACILITY NAME FACILITY ADDRESS, CITY, ST, ZIP		EDR SITE ID NUMBER
▼ MAP ID#	Direction Distance Range (Distance feet / miles)	ASTM 2600 Record Sources found in this report. Each database searched has been assigned to one or more categories. For detailed information about categorization, see the section of the report Records Searched and Currency.
	Relative Elevation Feet Above Sea Level	
Worksheet:		
Comments: Comments may be added on the online Vapor Encroachment Worksheet.		

DATABASE ACRONYM: Applicable categories (A hoverbox with database description).

FAST FUELS II 95-5591 MAMALAHOA HWY, NAALEHU, HI, 96772		U001237093
▲ 1	WSW <1/10 (392 ft. / 0.074 mi.)	State and tribal leaking storage tank lists
	36 ft. Higher Elevation 639 ft. Above Sea Level	State and tribal registered storage tank lists Other Records

Worksheet:

UST: State and tribal registered storage tank lists

Facility ID: 9-601647
 Owner: L.A. SERVICES INC.
 Owner Address: P.O. BOX 335
 Owner City,St,Zip: Naalehu, 96772 96772
 Latitude: 19.061020
 Longitude: -155.583426
 Horizontal Reference Datum Name: NAD83
 Horizontal Collection Method Name: GPS

Tank ID: 1
 Date Installed: 10/01/1999
Tank Status: Currently In Use
 Date Closed: Not Reported
 Tank Capacity: 12000
 Substance: Gasohol

Tank ID: 2A
 Date Installed: 10/01/1999
Tank Status: Currently In Use
 Date Closed: Not Reported
 Tank Capacity: 10000
 Substance: Gasohol

Tank ID: 2B

MAP FINDINGS

FAST FUELS II, 95-5591 MAMALAHOA HWY, NAALEHU, HI 96772 (Continued)

Date Installed:	10/01/1999
Tank Status:	Currently In Use
Date Closed:	Not Reported
Tank Capacity:	2000
Substance:	Diesel
Tank ID:	R-1
Date Installed:	01/01/1971
Tank Status:	Permanently Out of Use
Date Closed:	10/13/1998
Tank Capacity:	1000
Substance:	Diesel
Tank ID:	R-2
Date Installed:	01/01/1979
Tank Status:	Permanently Out of Use
Date Closed:	10/13/1998
Tank Capacity:	1000
Substance:	Gasoline
Tank ID:	R-3
Date Installed:	05/07/1971
Tank Status:	Permanently Out of Use
Date Closed:	10/13/1998
Tank Capacity:	4500
Substance:	Gasoline
Tank ID:	R-4
Date Installed:	05/07/1971
Tank Status:	Permanently Out of Use
Date Closed:	10/13/1998
Tank Capacity:	7500
Substance:	Gasoline

HI Financial Assurance: Other Records

Alt Facility ID:	9-601647
Tank Id:	2A
Tank Status:	Currently In Use
FRTYPE:	Other
Expiration Date:	Not Reported
Alt Facility ID:	9-601647
Tank Id:	R-3
Tank Status:	Permanently Out of Use
FRTYPE:	Other
Expiration Date:	Not Reported
Alt Facility ID:	9-601647
Tank Id:	R-2
Tank Status:	Permanently Out of Use

MAP FINDINGS

FAST FUELS II, 95-5591 MAMALAHOA HWY, NAALEHU, HI 96772 (Continued)

FRTYPE:	Other
Expiration Date:	Not Reported
Alt Facility ID:	9-601647
Tank Id:	R-1
Tank Status:	Permanently Out of Use
FRTYPE:	Other
Expiration Date:	Not Reported
Alt Facility ID:	9-601647
Tank Id:	2B
Tank Status:	Currently In Use
FRTYPE:	Other
Expiration Date:	Not Reported
Alt Facility ID:	9-601647
Tank Id:	R-4
Tank Status:	Permanently Out of Use
FRTYPE:	Other
Expiration Date:	Not Reported
Alt Facility ID:	9-601647
Tank Id:	1
Tank Status:	Currently In Use
FRTYPE:	Other
Expiration Date:	Not Reported
Alt Facility ID:	9-601647
Tank Id:	R-1
Tank Status:	Permanently Out of Use
FRTYPE:	Insurance
Expiration Date:	12/31/2016
Alt Facility ID:	9-601647
Tank Id:	R-2
Tank Status:	Permanently Out of Use
FRTYPE:	Insurance
Expiration Date:	12/31/2016
Alt Facility ID:	9-601647
Tank Id:	2A
Tank Status:	Currently In Use
FRTYPE:	Insurance
Expiration Date:	12/31/2016
Alt Facility ID:	9-601647
Tank Id:	R-3
Tank Status:	Permanently Out of Use
FRTYPE:	Insurance
Expiration Date:	12/31/2016
Alt Facility ID:	9-601647
Tank Id:	R-4
Tank Status:	Permanently Out of Use

MAP FINDINGS

FAST FUELS II, 95-5591 MAMALAHOA HWY, NAALEHU, HI 96772 (Continued)

FRTYPE:	Insurance
Expiration Date:	12/31/2016
Alt Facility ID:	9-601647
Tank Id:	1
Tank Status:	Currently In Use
FRTYPE:	Insurance
Expiration Date:	12/31/2016
Alt Facility ID:	9-601647
Tank Id:	2B
Tank Status:	Currently In Use
FRTYPE:	Insurance
Expiration Date:	12/31/2016

LUST: State and tribal leaking storage tank lists

Facility ID:	9-601647
Facility Status:	Site Cleanup Completed (NFA)
Facility Status Date:	07/20/1999
Release ID:	990047
Project Officer:	Richard Takaba

MAP FINDINGS

GETTA MALLICK 95-5572 MAMALAHOA HWY, NAALEHU, HI, 96772			U004053377
▲ 2	WSW 1/10 - 1/3	(1147 ft. / 0.217 mi.)	State and tribal - equivalent CERCLIS State and tribal leaking storage tank lists State and tribal registered storage tank lists State and tribal institutional control / engineering control registries Other Records
	52 ft. Higher Elevation	655 ft. Above Sea Level	

Worksheet:

UST: State and tribal registered storage tank lists

Facility ID: 9-603807
 Owner: Getta Mallick
 Owner Address: 10766 Wilshire Blvd
 Owner City, St, Zip: Naalehu, 96772 96772
 Latitude: 19.061484
 Longitude: -155.582516
 Horizontal Reference Datum Name: NAD83
 Horizontal Collection Method Name: Address Matching

Tank ID: R-T1
 Date Installed: Not Reported
Tank Status: Permanently out of Use
 Date Closed: 03/27/2006
 Tank Capacity: 550
 Substance: Kerosene

Tank ID: R-T2
 Date Installed: Not Reported
Tank Status: Permanently out of Use
 Date Closed: 03/28/2006
 Tank Capacity: 500
 Substance: Gasoline

Tank ID: R-T4
 Date Installed: Not Reported
Tank Status: Permanently out of Use
 Date Closed: 03/28/2006
 Tank Capacity: 300
 Substance: Gasoline

SHWS: State and tribal - equivalent CERCLIS

Organization: Not Reported
 Supplemental Location: Not Reported
 Island: Hawaii
 Environmental Interest: 95-5572 Mamalahoa Highway
 HID Number: Not Reported
 Facility Registry Identifier: Not Reported
 Lead Agency: HEER

MAP FINDINGS

GETTA MALLICK, 95-5572 MAMALAHOA HWY, NAALEHU, HI 96772 (Continued)

Program:	State
Project Manager:	Laura Young
Hazard Priority:	NFA
Potential Hazards And Controls:	Hazard Managed With Controls
Island:	Hawaii
SDAR Environmental Interest Name:	95-5572 Mamalahoa Highway
HID Number:	Not Reported
Facility Registry Identifier:	Not Reported
Lead Agency:	HEER
Potential Hazard And Controls:	Hazard Managed With Controls
Priority:	NFA
Assessment:	Response Necessary
Response:	Response Complete
Nature of Contamination:	Found: Lead contaminated soil under concrete slab of former gas station pumps.
Nature of Residual Contamination:	Lead in soil at concentrations of 948 and 4,120 mg/kg under concrete. Source unidentified and distribution not fully characterized.
Use Restrictions:	Controls Required to Manage Contamination
Engineering Control:	Engineering Control Required
Description of Restrictions:	Prohibit Any Activity That May Disturb the Integrity of the Capping System
Institutional Control:	Government - Hawaii Dept. of Health Letter Issued
Within Designated Areawide Contamination:	Not Reported
Site Closure Type:	No Further Action Letter - Restricted Use
Document Date:	09/12/2006
Document Number:	2006-566-LY
Document Subject:	No Further Action Letter for 95-5572 Mamalahoa Hwy
Project Manager:	Laura Young
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

LUST: State and tribal leaking storage tank lists

Facility ID:	9-603807
Facility Status:	Site Cleanup Completed (NFA)
Facility Status Date:	03/21/2007
Release ID:	060034
Project Officer:	Shaobin Li

HI SPILLS: Other Records

Island:	Hawaii
Supplemental Loc. Text:	Not Reported
Case Number:	20060815-1518
HID Number:	Not Reported
Facility Registry Id:	Not Reported
Lead and Program:	HEER EP&R
ER:	Off Scene
Units:	95-5572 Mamalahoa Highway
Substances:	Lead impacted soil
Less Or Greater Than:	Not Reported
Numerical Quantity:	Not Reported
Units:	Not Reported

MAP FINDINGS

GETTA MALLICK, 95-5572 MAMALAHOA HWY, NAALEHU, HI 96772 (Continued)

Activity Type:	Response
Activity Lead:	Curtis Martin
Assignment End Date:	2006-08-09 00:00:00
Result:	Refer to SDAR
File Under:	Geeta Mallik
Latitude:	19.061838
Longitude:	-155.582283

INST CONTROL: State and tribal institutional control / engineering control registries

Potential hazards and controls:	Hazard Managed With Controls
Supplemental Location:	Not Reported
Zip Suffix:	Not Reported
Island:	Hawaii
Institutional Control:	Government - Hawaii Dept. of Health Letter Issued

ENG CONTROLS: State and tribal institutional control / engineering control registries

Supplemental Location Text:	Not Reported
Zip Suffix:	Not Reported
Island:	Hawaii
Potential Hazards And Controls:	Hazard Managed With Controls
Engineering Control:	Engineering Control Required

MAP FINDINGS

RESIDENTIAL PROPERTY 95-5579 OPUKEA STREET 95-5579 OPUKEA ST, NAALEHU, HI, 96772			S110061799
▲ 3	W 1/10 - 1/3	(1604 ft. / 0.304 mi.)	State and tribal - equivalent CERCLIS State and tribal Brownfields sites
	69 ft. Higher Elevation	672 ft. Above Sea Level	

Worksheet:

SHWS: State and tribal - equivalent CERCLIS

Organization: Not Reported
 Supplemental Location: Not Reported
 Island: Hawaii
 Environmental Interest: Residential Property 95-5579 Opukea Street
 HID Number: Not Reported
 Facility Registry Identifier: Not Reported
 Lead Agency: HEER
 Program: Brownfields
 Project Manager: Melody Calisay
 Hazard Priority: NFA
 Potential Hazards And Controls: Hazard Undetermined
 Island: Hawaii
 SDAR Environmental Interest Name: Residential Property 95-5579 Opukea Street
 HID Number: Not Reported
 Facility Registry Identifier: Not Reported
 Lead Agency: HEER
 Potential Hazard And Controls: Hazard Undetermined
 Priority: NFA
 Assessment: Assessment Ongoing
 Response: Not Reported
 Nature of Contamination: Not Reported
 Nature of Residual Contamination: Not Reported
 Use Restrictions: Undetermined
 Engineering Control: Not Reported
 Description of Restrictions: Not Reported
 Institutional Control: Not Reported
 Within Designated Areawide Contamination: Not Reported
 Site Closure Type: None - Phase I Only
 Document Date: 10/10/2007
 Document Number: Not Reported
 Document Subject: Residential Property 95-5579 Opukea St, Naalehu, HI, TMK 3-9-5-024-010, Lot 174 Phase I
 ESA Report
 Project Manager: Melody Calisay
 Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

BROWNFIELDS: State and tribal Brownfields sites

Program: Brownfields
 Supplemental Location: Not Reported
 Island: Hawaii
 Zip Suffix: Not Reported

MAP FINDINGS

RECORD SOURCES AND CURRENCY

To maintain currency of the following databases, EDR contacts the appropriate 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.

ENVIRONMENTAL RECORDS

PRP: Potentially Responsible Parties

Standard Environmental Record Source: Other Records

Search Distance: Property

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013

Source: EPA

Number of Days to Update: 3

Telephone: 202-564-6023

Last EDR Contact :05/09/2017

RMP: Risk Management Plans

Standard Environmental Record Source: Other Records

Search Distance: Property

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: 02/01/2017

Source: Environmental Protection Agency

Number of Days to Update: 57

Telephone: 202-564-8600

Last EDR Contact :04/21/2017

AIRS: List of Permitted Facilities

Standard Environmental Record Source: Other Records

Search Distance: Property

A listing of permitted facilities in the state.

Date of Government Version: 12/31/2016

Source: Department of Health

Number of Days to Update: 57

Telephone: 808-586-4200

Last EDR Contact :03/31/2017

BROWNFIELDS: Brownfields Sites

Standard Environmental Record Source: State and tribal Brownfields sites

Search Distance: 0.333 Mile

With certain legal exclusions and additions, the term 'brownfield site' means 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.

Date of Government Version: 09/23/2016

Source: Department of Health

Number of Days to Update: 29

Telephone: 808-586-4249

Last EDR Contact :03/17/2017

CDL: Clandestine Drug Lab Listing

Standard Environmental Record Source: Other Records

RECORD SOURCES AND CURRENCY

Search Distance: Property

A listing of clandestine drug lab site locations.

Date of Government Version: 08/04/2010

Source: Department of Health

Number of Days to Update: 42

Telephone: 808-586-4249

Last EDR Contact :03/13/2017

DRYCLEANERS: Permitted Drycleaner Facility Listing

Standard Environmental Record Source: Other Records

Search Distance: 0.25 Mile

A listing of permitted drycleaner facilities in the state.

Date of Government Version: 12/31/2016

Source: Department of Health

Number of Days to Update: 63

Telephone: 808-586-4200

Last EDR Contact :03/31/2017

ENG CONTROLS: Engineering Control Sites

Standard Environmental Record Source: State and tribal institutional control / engineering control registries

Search Distance: Property

A listing of sites with engineering controls in place.

Date of Government Version: 09/23/2016

Source: Department of Health

Number of Days to Update: 29

Telephone: 404-586-4249

Last EDR Contact :03/17/2017

Financial Assurance: Financial Assurance Information Listing

Standard Environmental Record Source: Other Records

Search Distance: Property

A listing of financial assurance information for underground storage tank 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: 12/16/2016

Source: Department of Health

Number of Days to Update: 38

Telephone: 808-586-4226

Last EDR Contact :03/13/2017

INST CONTROL: Sites with Institutional Controls

Standard Environmental Record Source: State and tribal institutional control / engineering control registries

Search Distance: Property

Voluntary Remediation Program and Brownfields sites with institutional controls in place.

Date of Government Version: 09/23/2016

Source: Department of Health

Number of Days to Update: 29

Telephone: 808-586-4249

Last EDR Contact :03/17/2017

LUST: Leaking Underground Storage Tank Database

Standard Environmental Record Source: State and tribal leaking storage tank lists

Search Distance: 0.333 Mile

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.

RECORD SOURCES AND CURRENCY

Date of Government Version: 11/18/2016
Number of Days to Update: 19
Last EDR Contact :03/17/2017

Source: Department of Health
Telephone: 808-586-4228

SHWS: Sites List

Standard Environmental Record Source: State and tribal - equivalent CERCLIS
Search Distance: 0.333 Mile

Facilities, sites or areas in which the Office of Hazard Evaluation and Emergency Response has an interest, has investigated or may investigate under HRS 128D (includes CERCLIS sites).

Date of Government Version: 09/23/2016
Number of Days to Update: 29
Last EDR Contact :03/17/2017

Source: Department of Health
Telephone: 808-586-4249

SPILLS: Release Notifications

Standard Environmental Record Source: Other Records
Search Distance: Property

Releases of hazardous substances to the environment reported to the Office of Hazard Evaluation and Emergency Response since 1988.

Date of Government Version: 01/14/2016
Number of Days to Update: 42
Last EDR Contact :03/17/2017

Source: Department of Health
Telephone: 808-586-4249

SWF/LF: Permitted Landfills in the State of Hawaii

Standard Environmental Record Source: State and tribal landfill / solid waste disposal
Search Distance: 0.333 Mile

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: 09/17/2012
Number of Days to Update: 37
Last EDR Contact :03/31/2017

Source: Department of Health
Telephone: 808-586-4245

UIC: Underground Injection Wells Listing

Standard Environmental Record Source: Other Records
Search Distance: Property

A listing of underground injection well locations.

Date of Government Version: 02/07/2013
Number of Days to Update: 56
Last EDR Contact :02/24/2017

Source: Department of Health
Telephone: 808-586-4258

UST: Underground Storage Tank Database

Standard Environmental Record Source: State and tribal registered storage tank lists
Search Distance: Property

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: 11/18/2016
Number of Days to Update: 56

Source: Department of Health
Telephone: 808-586-4228

RECORD SOURCES AND CURRENCY

Last EDR Contact :03/17/2017

VCP: Voluntary Response Program Sites

Standard Environmental Record Source: State and tribal voluntary cleanup sites
Search Distance: 0.333 Mile

Sites participating in the Voluntary Response Program. The purpose of the VRP is to streamline the cleanup process in a way that will encourage prospective developers, lenders, and purchasers to voluntarily cleanup properties.

Date of Government Version: 09/23/2016 Source: Department of Health
Number of Days to Update: 29 Telephone: 808-586-4249
Last EDR Contact :03/17/2017

2020 COR ACTION: 2020 Corrective Action Program List

Standard Environmental Record Source: Other Records
Search Distance: 0.25 Mile

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: 04/22/2013 Source: Environmental Protection Agency
Number of Days to Update: 6 Telephone: 703-308-4044
Last EDR Contact :05/05/2017

ABANDONED MINES: Abandoned Mines

Standard Environmental Record Source: Other Records
Search Distance: 0.333 Mile

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: 03/14/2017 Source: Department of Interior
Number of Days to Update: 21 Telephone: 202-208-2609
Last EDR Contact :03/13/2017

COAL ASH DOE: Steam-Electric Plant Operation Data

Standard Environmental Record Source: Other Records
Search Distance: Property

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005 Source: Department of Energy
Number of Days to Update: 76 Telephone: 202-586-8719
Last EDR Contact :03/06/2017

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

Standard Environmental Record Source: Other Records
Search Distance: 0.333 Mile

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014 Source: Environmental Protection Agency
Number of Days to Update: 40 Telephone: Not Reported

RECORD SOURCES AND CURRENCY

Last EDR Contact :03/06/2017

CONSENT: Superfund (CERCLA) Consent Decrees

Standard Environmental Record Source: Federal NPL site list
Search Distance: 0.333 Mile

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: 09/30/2016
Number of Days to Update: 77
Last EDR Contact :03/27/2017

Source: Department of Justice, Consent Decree Library
Telephone: Varies

CORRACTS: Corrective Action Report

Standard Environmental Record Source: Federal RCRA CORRACTS facilities list
Search Distance: 0.333 Mile

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/12/2016
Number of Days to Update: 44
Last EDR Contact :05/02/2017

Source: EPA
Telephone: 800-424-9346

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

Standard Environmental Record Source: State and tribal landfill / solid waste disposal
Search Distance: 0.333 Mile

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
Number of Days to Update: 137
Last EDR Contact :04/24/2017

Source: EPA, Region 9
Telephone: 415-947-4219

DOCKET HWC: Hazardous Waste Compliance Docket Listing

Standard Environmental Record Source: Other Records
Search Distance: Property

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016
Number of Days to Update: 91
Last EDR Contact :02/24/2017

Source: Environmental Protection Agency
Telephone: 202-564-0527

DOT OPS: Incident and Accident Data

Standard Environmental Record Source: Other Records
Search Distance: Property

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Number of Days to Update: 42
Last EDR Contact :05/02/2017

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595

Delisted NPL: National Priority List Deletions

Standard Environmental Record Source: Other Records

RECORD SOURCES AND CURRENCY

Search Distance: 0.333 Mile

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: 04/05/2017

Source: EPA

Number of Days to Update: 21

Telephone: Not Reported

Last EDR Contact :04/21/2017

ECHO: Enforcement & Compliance History Information

Standard Environmental Record Source: Other Records

Search Distance: Property

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 03/19/2017

Source: Environmental Protection Agency

Number of Days to Update: 52

Telephone: 202-564-2280

Last EDR Contact :03/21/2017

EPA WATCH LIST: EPA WATCH LIST

Standard Environmental Record Source: Other Records

Search Distance: Property

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

Source: Environmental Protection Agency

Number of Days to Update: 88

Telephone: 617-520-3000

Last EDR Contact :05/08/2017

ERNS: Emergency Response Notification System

Standard Environmental Record Source: Federal ERNS list

Search Distance: Property

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

Date of Government Version: 09/26/2016

Source: National Response Center, United States Coast Guard

Number of Days to Update: 43

Telephone: 202-267-2180

Last EDR Contact :03/29/2017

FEMA UST: Underground Storage Tank Listing

Standard Environmental Record Source: State and tribal registered storage tank lists

Search Distance: Property

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010

Source: FEMA

Number of Days to Update: 55

Telephone: 202-646-5797

Last EDR Contact :04/11/2017

FINDS: Facility Index System/Facility Registry System

Standard Environmental Record Source: Other Records

RECORD SOURCES AND CURRENCY

Search Distance: Property

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: 04/04/2017

Source: EPA

Number of Days to Update: 35

Telephone: Not Reported

Last EDR Contact :04/07/2017

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Standard Environmental Record Source: Other Records

Search Distance: Property

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

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Number of Days to Update: 25

Telephone: 202-566-1667

Last EDR Contact :02/17/2017

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Standard Environmental Record Source: Other Records

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009

Source: EPA

Number of Days to Update: 25

Telephone: 202-566-1667

Last EDR Contact :02/17/2017

FUDS: Formerly Used Defense Sites

Standard Environmental Record Source: Other Records

Search Distance: 0.333 Mile

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

Date of Government Version: 01/31/2015

Source: U.S. Army Corps of Engineers

Number of Days to Update: 97

Telephone: 202-528-4285

Last EDR Contact :02/24/2017

FUELS PROGRAM: EPA Fuels Program Registered Listing

Standard Environmental Record Source: Other Records

Search Distance: Property

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: 02/22/2017

Source: EPA

Number of Days to Update: 79

Telephone: 800-385-6164

Last EDR Contact :02/22/2017

FUSRAP: Formerly Utilized Sites Remedial Action Program

Standard Environmental Record Source: Other Records

RECORD SOURCES AND CURRENCY

Search Distance: 0.333 Mile

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: 12/23/2016

Source: Department of Energy

Number of Days to Update: 52

Telephone: 202-586-3559

Last EDR Contact :05/05/2017

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

Standard Environmental Record Source: Other Records

Search Distance: Property

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

Source: Environmental Protection Agency

Number of Days to Update: 40

Telephone: 202-564-2501

Last EDR Contact :12/17/2007

HMIRS: Hazardous Materials Information Reporting System

Standard Environmental Record Source: Other Records

Search Distance: Property

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

Date of Government Version: 12/28/2016

Source: U.S. Department of Transportation

Number of Days to Update: 37

Telephone: 202-366-4555

Last EDR Contact :03/29/2017

ICIS: Integrated Compliance Information System

Standard Environmental Record Source: Other Records

Search Distance: Property

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

Source: Environmental Protection Agency

Number of Days to Update: 79

Telephone: 202-564-2501

Last EDR Contact :04/10/2017

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists

Search Distance: 0.333 Mile

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 11/14/2016

Source: EPA Region 1

Number of Days to Update: 99

Telephone: 617-918-1313

Last EDR Contact :04/28/2017

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists

RECORD SOURCES AND CURRENCY

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/07/2016 Source: EPA Region 10
Number of Days to Update: 99 Telephone: 206-553-2857
Last EDR Contact :04/28/2017

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/14/2016 Source: EPA Region 4
Number of Days to Update: 98 Telephone: 404-562-8677
Last EDR Contact :04/28/2017

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 11/14/2016 Source: EPA, Region 5
Number of Days to Update: 99 Telephone: 312-886-7439
Last EDR Contact :04/28/2017

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/01/2016 Source: EPA Region 6
Number of Days to Update: 99 Telephone: 214-665-6597
Last EDR Contact :04/28/2017

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/01/2016 Source: EPA Region 7
Number of Days to Update: 99 Telephone: 913-551-7003
Last EDR Contact :04/28/2017

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/17/2016 Source: EPA Region 8
Number of Days to Update: 99 Telephone: 303-312-6271
Last EDR Contact :04/28/2017

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/06/2016 Source: Environmental Protection Agency
Number of Days to Update: 99 Telephone: 415-972-3372
Last EDR Contact :04/28/2017

RECORD SOURCES AND CURRENCY

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Standard Environmental Record Source: Other Records

Search Distance: 0.333 Mile

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998

Source: Environmental Protection Agency

Number of Days to Update: 52

Telephone: 703-308-8245

Last EDR Contact :05/01/2017

INDIAN UST R1: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

Search Distance: Property

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: 11/14/2016

Source: EPA, Region 1

Number of Days to Update: 99

Telephone: 617-918-1313

Last EDR Contact :04/28/2017

INDIAN UST R10: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

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: 10/07/2016

Source: EPA Region 10

Number of Days to Update: 99

Telephone: 206-553-2857

Last EDR Contact :04/28/2017

INDIAN UST R4: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

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: 10/14/2016

Source: EPA Region 4

Number of Days to Update: 98

Telephone: 404-562-9424

Last EDR Contact :04/28/2017

INDIAN UST R5: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

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: 01/14/2017

Source: EPA Region 5

Number of Days to Update: 99

Telephone: 312-886-6136

Last EDR Contact :04/28/2017

INDIAN UST R6: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

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: 10/01/2016

Source: EPA Region 6

Number of Days to Update: 99

Telephone: 214-665-7591

RECORD SOURCES AND CURRENCY

Last EDR Contact :04/28/2017

INDIAN UST R7: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

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: 09/01/2016

Source: EPA Region 7

Number of Days to Update: 99

Telephone: 913-551-7003

Last EDR Contact :04/28/2017

INDIAN UST R8: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

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: 10/17/2016

Source: EPA Region 8

Number of Days to Update: 99

Telephone: 303-312-6137

Last EDR Contact :04/28/2017

INDIAN UST R9: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

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: 10/06/2016

Source: EPA Region 9

Number of Days to Update: 99

Telephone: 415-972-3368

Last EDR Contact :04/28/2017

INDIAN VCP R1: Voluntary Cleanup Priority Listing

Standard Environmental Record Source: State and tribal voluntary cleanup sites

Search Distance: Property

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015

Source: EPA, Region 1

Number of Days to Update: 142

Telephone: 617-918-1102

Last EDR Contact :03/27/2017

INDIAN VCP R7: Voluntary Cleanup Priority Listing

Standard Environmental Record Source: State and tribal voluntary cleanup sites

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008

Source: EPA, Region 7

Number of Days to Update: 27

Telephone: 913-551-7365

Last EDR Contact :04/20/2009

LEAD SMELTER 1: Lead Smelter Sites

Standard Environmental Record Source: Other Records

Search Distance: Property

A listing of former lead smelter site locations.

Date of Government Version: 12/05/2016

Source: Environmental Protection Agency

Number of Days to Update: 36

Telephone: 703-603-8787

RECORD SOURCES AND CURRENCY

Last EDR Contact :04/21/2017

LEAD SMELTER 2: Lead Smelter Sites

Standard Environmental Record Source: Other Records

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 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

Source: American Journal of Public Health

Number of Days to Update: 36

Telephone: 703-305-6451

Last EDR Contact :12/02/2009

LIENS 2: CERCLA Lien Information

Standard Environmental Record Source: Federal CERCLIS list

Search Distance: Property

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: 02/18/2014

Source: Environmental Protection Agency

Number of Days to Update: 37

Telephone: 202-564-6023

Last EDR Contact :04/21/2017

LUCIS: Land Use Control Information System

Standard Environmental Record Source: Federal institutional controls / engineering controls registries

Search Distance: 0.333 Mile

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

Date of Government Version: 12/28/2016

Source: Department of the Navy

Number of Days to Update: 93

Telephone: 843-820-7326

Last EDR Contact :05/15/2017

MLTS: Material Licensing Tracking System

Standard Environmental Record Source: Other Records

Search Distance: Property

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016

Source: Nuclear Regulatory Commission

Number of Days to Update: 43

Telephone: 301-415-7169

Last EDR Contact :05/08/2017

NPL: National Priority List

Standard Environmental Record Source: Federal NPL site list

Search Distance: 0.333 Mile

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: 04/05/2017

Source: EPA

Number of Days to Update: 21

Telephone: Not Reported

RECORD SOURCES AND CURRENCY

Last EDR Contact :04/21/2017

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-566-0690

EPA Region 1
Telephone: 617-918-1102

EPA Region 2
Telephone: 212-637-4293

EPA Region 3
Telephone: 215-814-5418

EPA Region 4
Telephone: 404-562-8681

EPA Region 5
Telephone: 312-353-1063

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6118

EPA Region 9
Telephone: 415-947-4579

EPA Region 10
Telephone: 206-553-4479

NPL LIENS: Federal Superfund Liens

Standard Environmental Record Source: Federal NPL site list

Search Distance: Property

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

Source: EPA

Number of Days to Update: 56

Telephone: 202-564-4267

Last EDR Contact :08/15/2011

ODI: Open Dump Inventory

Standard Environmental Record Source: Other Records

Search Distance: 0.333 Mile

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

Source: Environmental Protection Agency

Number of Days to Update: 39

Telephone: 800-424-9346

Last EDR Contact :06/09/2004

PADS: PCB Activity Database System

Standard Environmental Record Source: Other Records

Search Distance: Property

RECORD SOURCES AND CURRENCY

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: 01/20/2016 Source: EPA
Number of Days to Update: 127 Telephone: 202-566-0500
Last EDR Contact :04/10/2017

PCB TRANSFORMER: PCB Transformer Registration Database

Standard Environmental Record Source: Other Records
Search Distance: Property

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011 Source: Environmental Protection Agency
Number of Days to Update: 83 Telephone: 202-566-0517
Last EDR Contact :04/28/2017

Proposed NPL: Proposed National Priority List Sites

Standard Environmental Record Source: Federal NPL site list
Search Distance: 0.333 Mile

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 their requirements for listing.

Date of Government Version: 04/05/2017 Source: EPA
Number of Days to Update: 21 Telephone: Not Reported
Last EDR Contact :04/21/2017

RAATS: RCRA Administrative Action Tracking System

Standard Environmental Record Source: Other Records
Search Distance: Property

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 Source: EPA
Number of Days to Update: 35 Telephone: 202-564-4104
Last EDR Contact :06/02/2008

RADINFO: Radiation Information Database

Standard Environmental Record Source: Other Records
Search Distance: Property

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: 01/04/2017 Source: Environmental Protection Agency
Number of Days to Update: 35 Telephone: 202-343-9775
Last EDR Contact :04/06/2017

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

Standard Environmental Record Source: Other Records
Search Distance: Property

RECORD SOURCES AND CURRENCY

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: 12/12/2016
Number of Days to Update: 44
Last EDR Contact :05/02/2017

Source: Environmental Protection Agency
Telephone: 703-308-8895

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

Standard Environmental Record Source: Federal RCRA generators list
Search Distance: Property

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

Date of Government Version: 12/12/2016
Number of Days to Update: 44
Last EDR Contact :05/02/2017

Source: Environmental Protection Agency
Telephone: 703-308-8895

RCRA-LQG: RCRA - Large Quantity Generators

Standard Environmental Record Source: Federal RCRA generators list
Search Distance: Property

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: 12/12/2016
Number of Days to Update: 44
Last EDR Contact :05/02/2017

Source: Environmental Protection Agency
Telephone: 703-308-8895

RCRA-SQG: RCRA - Small Quantity Generators

Standard Environmental Record Source: Federal RCRA generators list
Search Distance: Property

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: 12/12/2016
Number of Days to Update: 44
Last EDR Contact :05/02/2017

Source: Environmental Protection Agency
Telephone: 703-308-8895

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

Standard Environmental Record Source: Federal RCRA TSD facilities list
Search Distance: 0.333 Mile

RECORD SOURCES AND CURRENCY

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: 12/12/2016

Source: Environmental Protection Agency

Number of Days to Update: 44

Telephone: 703-308-8895

Last EDR Contact :05/02/2017

ROD: Records Of Decision

Standard Environmental Record Source: Federal NPL site list

Search Distance: 0.333 Mile

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: 11/25/2013

Source: EPA

Number of Days to Update: 74

Telephone: 703-416-0223

Last EDR Contact :03/06/2017

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

Standard Environmental Record Source: Other Records

Search Distance: 0.333 Mile

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

Date of Government Version: 01/01/2017

Source: Environmental Protection Agency

Number of Days to Update: 63

Telephone: 615-532-8599

Last EDR Contact :02/03/2017

SEMS: Superfund Enterprise Management System

Standard Environmental Record Source: Federal CERCLIS list

Search Distance: 0.333 Mile

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: 02/07/2017

Source: EPA

Number of Days to Update: 16

Telephone: 800-424-9346

Last EDR Contact :04/21/2017

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

Standard Environmental Record Source: Other Records

Search Distance: 0.333 Mile

RECORD SOURCES AND CURRENCY

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: 02/07/2017

Source: EPA

Number of Days to Update: 16

Telephone: 800-424-9346

Last EDR Contact :04/25/2017

SSTS: Section 7 Tracking Systems

Standard Environmental Record Source: Other Records

Search Distance: Property

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009

Source: EPA

Number of Days to Update: 77

Telephone: 202-564-4203

Last EDR Contact :04/26/2017

TRIS: Toxic Chemical Release Inventory System

Standard Environmental Record Source: Other Records

Search Distance: Property

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: 12/31/2014

Source: EPA

Number of Days to Update: 133

Telephone: 202-566-0250

Last EDR Contact :02/24/2017

TSCA: Toxic Substances Control Act

Standard Environmental Record Source: Other Records

Search Distance: Property

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: 12/31/2012

Source: EPA

Number of Days to Update: 14

Telephone: 202-260-5521

Last EDR Contact :03/24/2017

UMTRA: Uranium Mill Tailings Sites

Standard Environmental Record Source: Other Records

Search Distance: 0.333 Mile

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: 09/14/2010

Source: Department of Energy

Number of Days to Update: 146

Telephone: 505-845-0011

RECORD SOURCES AND CURRENCY

Last EDR Contact :02/21/2017

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

Standard Environmental Record Source: Other Records

Search Distance: Property

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

Source: EPA

Number of Days to Update: 100

Telephone: 202-564-2496

Last EDR Contact :03/07/2017

US AIRS MINOR: Air Facility System Data

Standard Environmental Record Source: Other Records

A listing of minor source facilities.

Date of Government Version: 10/12/2016

Source: EPA

Number of Days to Update: 100

Telephone: 202-564-2496

Last EDR Contact :03/07/2017

US BROWNFIELDS: A Listing of Brownfields Sites

Standard Environmental Record Source: Other Records

Search Distance: 0.333 Mile

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: 03/02/2017

Source: Environmental Protection Agency

Number of Days to Update: 36

Telephone: 202-566-2777

Last EDR Contact :03/02/2017

US CDL: Clandestine Drug Labs

Standard Environmental Record Source: Other Records

Search Distance: Property

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: 09/30/2016

Source: Drug Enforcement Administration

Number of Days to Update: 67

Telephone: 202-307-1000

Last EDR Contact :02/28/2017

US ENG CONTROLS: Engineering Controls Sites List

Standard Environmental Record Source: Federal institutional controls / engineering controls registries

Search Distance: Property

RECORD SOURCES AND CURRENCY

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: 11/15/2016

Source: Environmental Protection Agency

Number of Days to Update: 66

Telephone: 703-603-0695

Last EDR Contact :02/28/2017

US FIN ASSUR: Financial Assurance Information

Standard Environmental Record Source: Other Records

Search Distance: Property

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: 02/13/2017

Source: Environmental Protection Agency

Number of Days to Update: 86

Telephone: 202-566-1917

Last EDR Contact :05/17/2017

US HIST CDL: National Clandestine Laboratory Register

Standard Environmental Record Source: Other Records

Search Distance: Property

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

Date of Government Version: 09/30/2016

Source: Drug Enforcement Administration

Number of Days to Update: 36

Telephone: 202-307-1000

Last EDR Contact :02/28/2017

US INST CONTROL: Sites with Institutional Controls

Standard Environmental Record Source: Federal institutional controls / engineering controls registries

Search Distance: Property

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: 11/15/2016

Source: Environmental Protection Agency

Number of Days to Update: 66

Telephone: 703-603-0695

Last EDR Contact :02/28/2017

US MINES: Mines Master Index File

Standard Environmental Record Source: Other Records

Search Distance: Property

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/08/2017

Source: Department of Labor, Mine Safety and Health Administration

Number of Days to Update: 38

Telephone: 303-231-5959

Last EDR Contact :02/28/2017

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

Standard Environmental Record Source: Other Records

RECORD SOURCES AND CURRENCY

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005

Source: USGS

Number of Days to Update: 49

Telephone: 703-648-7709

Last EDR Contact :03/03/2017

US MINES 3: Active Mines & Mineral Plants Database Listing

Standard Environmental Record Source: Other Records

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

Source: USGS

Number of Days to Update: 97

Telephone: 703-648-7709

Last EDR Contact :03/03/2017

DOD: Department of Defense Sites

Standard Environmental Record Source: Other Records

Search Distance: 0.333 Mile

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

Date of Government Version: 12/31/2005

Source: USGS

Number of Days to Update: 62

Telephone: 888-275-8747

Last EDR Contact :04/14/2017

INDIAN RESERV: Indian Reservations

Standard Environmental Record Source: Other Records

Search Distance: Property

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

Source: USGS

Number of Days to Update: N/A

Telephone: 202-208-3710

Last EDR Contact :04/14/2017

PWS: Public Water System Data

Standard Environmental Record Source: Other Records

Search Distance: Property

This Safe Drinking Water Information System (SDWIS) file contains public water systems name and address, population served and the primary source of water

Date of Government Version: 12/17/2013

Source: EPA

Number of Days to Update: 279

Telephone: Not Reported

Last EDR Contact :02/27/2017

RECORD SOURCES AND CURRENCY

HISTORICAL USE RECORDS

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

Standard Environmental Record Source: Exclusive Recovered Govt. Archives

Search Distance: Property

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS 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 Health in Hawaii.

Date of Government Version: Not Reported

Source: Department of Health

Number of Days to Update: 191

Telephone: Not Reported

Last EDR Contact :06/01/2012

RGA LF: Recovered Government Archive Solid Waste Facilities List

Standard Environmental Record Source: Exclusive Recovered Govt. Archives

Search Distance: Property

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 Department of Health in Hawaii.

Date of Government Version: Not Reported

Source: Department of Health

Number of Days to Update: 200

Telephone: Not Reported

Last EDR Contact :06/01/2012

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

Standard Environmental Record Source: Exclusive Recovered Govt. Archives

Search Distance: Property

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 Health in Hawaii.

Date of Government Version: Not Reported

Source: Department of Health

Number of Days to Update: 186

Telephone: Not Reported

Last EDR Contact :06/01/2012

EDR Hist Auto: EDR Exclusive Historic Gas Stations

Standard Environmental Record Source: Historical Gas Stations

Search Distance: 0.125 Mile

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: 02/20/2007

Source: EDR, Inc.

Number of Days to Update: 42

Telephone: Not Reported

Last EDR Contact :02/21/2007

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

Standard Environmental Record Source: Historical Dry Cleaners

Search Distance: 0.125 Mile

RECORD SOURCES AND CURRENCY

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: 02/20/2007

Source: EDR, Inc.

Number of Days to Update: 42

Telephone: Not Reported

Last EDR Contact :02/21/2007

EDR MGP: EDR Proprietary Manufactured Gas Plants

Standard Environmental Record Source: Former Manufactured Gas Plants

Search Distance: 0.333 Mile

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: 08/28/2009

Source: EDR, Inc.

Number of Days to Update: 55

Telephone: Not Reported

Last EDR Contact :11/30/2012

RECORD SOURCES AND CURRENCY

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5' minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW® Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW® Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services. The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

STREET AND ADDRESS INFORMATION

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Appendix F: User Questionnaire

ENVIRONMENTAL SITE ASSESSMENT USER QUESTIONNAIRE

Site/Project Name: Naalehu TMK (3) 9-5-011:003 & 9-5-012:002

Location: Mamalahoa Highway, Naalehu, HI

In Order to qualify for one of the *Landowner Liability Protections (LLPs)*¹ offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "*Brownfields Amendments*"),² the *user* must provide the following information (if available) to the *environmental professional*. Failure to provide this information could result in a determination that "*all appropriate inquiry*" is not complete. Please explain your answers if appropriate.

1. Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).

Are you aware of any environmental cleanup liens against the *property* that are filed or recorded under federal, tribal, state or local law?

Yes _____ No X

2. Activity and land use limitations (AULs) that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26).

Are you aware of 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 in a registry under federal, tribal, state or local law?

Yes _____ No X

3. Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).

As the *user* of this *Environmental Site Assessment (ESA)* do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the *property* or an adjoining *property* so that you would have specialized knowledge of the chemicals and processes used by this type of business?

¹ *Landowner Liability Protections, or LLPs*, is the term used to describe the three types of potential defenses to Superfund liability in EPA's *Interim Guidance Regarding Criteria Landowners Must Meet in Order to Qualify for Bona Fide Prospective Purchaser, Contiguous Property Owner, or Innocent Landowner Limitations on CERCLA Liability* ("Common Elements" Guide) issued on March 6, 2003.

² P.L. 107-118.

ENVIRONMENTAL SITE ASSESSMENT USER QUESTIONNAIRE

Yes _____ No X_____

4. Relationship of the purchase price to the fair market value of the *property* if it were not contaminated (40 CFR 312.29).

Does the purchase price being paid for this *property* reasonably reflect the fair market value of the *property*?

Yes X_____ No _____

If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*?

Yes _____ No _____ NA X_____

5. Commonly known or *reasonably ascertainable* information about the *property* (40 CFR 312.30).

Are you aware of commonly known or *reasonably ascertainable* information about the *property* that would help the *environmental professional* to identify conditions indicative of releases or threatened releases?

Yes _____ No X_____

For example, as user,

- (a) Do you know the past uses of the *property*? Yes X_____ No _____
Ranch land.

- (b) Do you know of specific chemicals that are present or once were present at the *property*? Yes _____ No X_____

- (c) Do you know of spills or other chemical releases that have taken place at the *property*? Yes _____ No X_____

- (d) Do you know of any environmental cleanups that have taken place at the *property*? Yes _____ No X_____

ENVIRONMENTAL SITE ASSESSMENT USER QUESTIONNAIRE

6. The degree of obviousness of the presence or likely presence of contamination at the *property*, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

As the *user* of the *ESA* based on your knowledge and experience related to the *property* are there any obvious indicators that point to the presence or likely presence of contamination at the *property*?

Yes _____ No X

To enable Brown and Caldwell to complete your project, please also respond to the following items.

- (a) The reason why the Phase I is required: *Due diligence for County obtaining the property.*

- (b) The type of *property* (e.g., industrial, commercial, vacant, agricultural, residential, etc.) and type of *property* transaction, for example, sale, purchase, exchange, etc.: *Majority is agricultural with portion zoned residential.*

- (c) The complete and correct address for the *property*, including county (a map or other documentation showing *property* location and boundaries is helpful):

TMK 9-5-011:003 and 9-5-012:002

- (d) The scope of services desired for the Phase I (including whether any parties to the *property* transaction may have a required standard scope of services or whether any considerations beyond the requirements of Practice E 1527 are to be considered):
Standard

- (e) Identification of all parties who will rely on the Phase I *report*:
County of Hawaii

- (f) Identification of the site contact and how the contact can be reached:
Richard Sousa

ENVIRONMENTAL SITE ASSESSMENT USER QUESTIONNAIRE

(g) Any special terms and conditions which must be agreed upon by the *environmental professional*: *N/A*

(h) Any other knowledge or experience with the *property* that may be pertinent to the *environmental professional* (for example, copies of any available prior *environmental site assessment reports*, documents, correspondence, etc., concerning the *property* and its environmental conditions. These include, but are not necessarily limited to: *No*.

- *ESA reports,*
- *Environment compliance audit reports,*
- *Environmental permits (for example, solid waste disposal permits, hazardous waste disposal permits, wastewater permits, NPDES permits, underground injection permits),*
- *Registrations for underground and above-ground storage tanks,*
- *Registrations for underground injection systems,*
- *Material safety data sheets,*
- *Community right-to-know plan,*
- *Safety plans; preparedness and prevention plans; spill prevention, countermeasure, and control plans; etc.,*
- *Reports regarding hydrogeologic conditions on the property or surrounding area,*
- *Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property,*
- *Hazardous waste generator notices or reports,*
- *Geotechnical studies,*
- *Risk assessments, and*
- *Recorded AULs.*

(i) *Proceedings Involving the Property* – whether the User knows of:

(a) Any pending, threatened, or past litigation relevant to *hazardous substances* or *petroleum products* in, on, or from the *property*;

Yes _____ No X_____

(b) Any pending, threatened, or past administrative proceedings relevant to *hazardous substances* or *petroleum products* in, on, or from the *property*;

Yes _____ No X_____

ENVIRONMENTAL SITE ASSESSMENT USER QUESTIONNAIRE

(c) Any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products;

Yes _____ No X

Please explain any "Yes" answers below.

Completed by:

Signature	<u><i>Lyle Hirota</i></u>
Printed Name	<u>Lyle Hirota</u>
Organization	<u>County of Hawai`i Dept. of Env. Mgmt. Wastewater Division</u>
Date	<u>8/30/2017</u>

Please return this questionnaire to:

Caitlin Shannon
cshannon@brwncald.com

Brown and Caldwell
Fax - 615-256-8332
Phone - 615-250-1240



Appendix G: Qualifications of Environmental Professionals

Experience Summary

Caitlin Shannon is a multi-skilled professional scientist with two years experience. Her responsibilities at BC include regulatory compliance research, technical report preparation for private sector clients, regulatory site investigations, assisting with report writing and preparation, health and safety plan preparation.

Assignment

Private Sector Enterprise

Education

B.S. Geosciences, Middle Tennessee State University 2013

Experience

2 years

Joined Firm

2015

Relevant Expertise

- *Air Quality Permitting, Reporting, and Compliance*
- *Phase I Environmental Site Assessments*
- *Environmental Due Diligence*
- *Regulatory Compliance*
- *Regulatory Site Investigations*
- *Surface water Sampling*
- *Soil Sampling*
- *Underground Storage Tank Construction and Permitting Requirements*
- *Petrology field experience-Cascade Range*

Representative Compliance Projects

New Facility/Remodel/Logistics Regulatory Compliance and Permitting, Confidential Client, Nationwide

Permit Writer. Permit research and writing for a large nationwide retail client. The program was established to provide operations support to a nationwide retailer for their New Store, Store Remodel, Distribution Center, and Fueling Station programs in a 17 State region across the US. Permits researched and applied for were for all operations that require a local, State and federal environmental permit, registration, notification or inspection. Site walk-throughs of new and remodeled stores and distribution centers were completed to ensure environmental compliance. This large nationwide program has permitted over 2,000 locations over the past four years. [2015]

Phase I ESAs, DR Horton, Nationwide

Environmental Report Writer and Field Inspector. Completing Phase I ESAs by following *all appropriate inquiries* (AAI). Responsibilities include project coordination, technical report writing, historical and physical setting research, field investigations, review of prior assessments, and regulatory database analysis and reporting.

Regulatory Compliance and Permitting; Hubbell, Inc., Leeds, Alabama

Permit Writer. Completing air permits for existing sources and performing emissions inventory site visits to permit new sources as well as coordinating in revision of the facility's SPCC Plan and SWPPP. Responsibilities included technical report writing; regulatory research, compiling emissions calculation spreadsheets, and familiarity with environmental laws and policies.

Research and Field Studies

Middle Tennessee State University, Murfreesboro, Tennessee

Undergraduate Teaching Assistant. Assisting professors in assembling lab exercises and mineral identification in Honors Introduction to Earth Science and Mineralogy. [2012-2013]

Middle Tennessee State University, Murfreesboro, Tennessee

Undergraduate Laboratory Assistant. Laboratory research consisting of preparation of solid and liquid samples for geochemical analysis (X-Ray Fluorescence and Inductively Coupled Plasma Mass Spectrometry). [2008-2012]

Middle Tennessee State University, Murfreesboro, Tennessee

Undergraduate Research Assistant. Field research consisting of surface water and sediment sampling; and measurement and recording of sample properties such as pH, temperature, and turbidity. [2010]

Field work consisting of analysis of distribution of coal ash in surface waters and streams surrounding Tennessee Valley Authority coal-fired power plants. [2009]

Field work consisting of petrological analysis of volcanic rocks in the Central and Northern Cascade Range [2008-2009]

Memberships

1. Geological Society of America; Environmental and Engineering Geology Division
2. American Geophysical Union
3. Sigma Gamma Epsilon (National Earth Science Honor Society); Eta Sigma Chapter

Publications

Wylie, M., Pickering, J., Jones, M., Crombie, S., Shannon, C., and Cribb, W., 2009. Geochemical investigation of potential toxic metal releases from TVA coal ash surface impoundments into nearby river water and sediments. Geological Society of America Abstracts with Programs, Vol. 41 No. 7. Numbered publication list continues.

Pickering, J., Wylie, M., Jones, M., Crombie, S., Shannon, C., and Cribb, W., 2009. Geochemical investigation of potential toxic metal releases from TVA coal ash surface impoundments into nearby river water and sediments; MTSU StepMT Research Day.

Jones, M., Miller, W., Pickering, J., Shannon, C., Crombie, S., and Cribb, W., 2010. Geochemical investigation of potential toxic metal releases from TVA coal ash surface impoundments into nearby river waters and sediments. Journal of the Tennessee Academy of Sciences, Vol. 85 No. 1.

Experience Summary

Julie Norrell has 19 years of experience in environmental project management and consulting. She has a diverse background in environmental planning, program and project management that includes environmental management systems, regulatory compliance, Phase I site assessments, hazardous material response, and permitting. Ms. Norrell has a broad range of technical expertise which has served clients in helping manage portfolios of environmentally impaired properties.

Assignment

Private Sector Enterprise

Education

*M.S. Environmental Management,
Samford University, 2001*

*B.S. Biology, Auburn University
Montgomery, 1997*

Registration

*Registered Environmental
Manager, since 2004*

Experience

19 years

Joined Firm

2012

Relevant Expertise

- *Regulatory Compliance and Permitting*
- *Environmental Management Systems*
- *Environmental Site Assessments and Site Investigations*
- *NEPA Investigations*

New Facility Regulatory Compliance and Permitting, Confidential Client, Nationwide

Project Manager/Monitoring Manager/Senior Technical Lead. Manages a nationwide team of compliance specialists to conduct permit reviews for a large nationwide retail client. The program was established to provide operations support to a nationwide retailer for their New Store program in a 17 State region across the US. Permits researched and applied for were for all operations impacted by local, state, and federal environmental regulations.

Phase I ESAs, D.R. Horton, Nationwide

Senior Technical Lead. Provides project management leadership and technical expertise for Phase I environmental site assessments throughout the United States to determine potential environmental liabilities associated with property acquisitions and divestitures.

ISO 14001 EMS Implementation, US Army, Fort Rucker, Alabama

Program Manager. Developed and implemented an EMS at the Aviation Center Logistics Command. Developed and maintained ACLC's EMS standardized procedures through the updating of the EMS manual and created an EMS implementation plan in compliance with ISO standards; created and implemented procedures for the EMS to ensure that environmental issues are taken into consideration at all levels of the organization. -Conducted audits on the contractor's aviation processes to determine ISO 14001 conformance, as well as compliance in all programs, including air programs, P2 programs, water programs, aboveground storage tanks, hazardous material handling, solvent management, and hazardous waste handling. *(Individual Experience)*

Natural Gas Pipeline, Confidential Client, Baldwin County Alabama

Field Technician. Performed threatened and endangered species assessments, wetland assessments, historical assessments, and floodplain assessments for inclusion in the overall Environmental Assessment of an offshore natural gas pipeline and associated onshore facilities. *(Individual Experience)*

Phase I ESAs, Various Financial Institution Clients, Nationwide

Project Manager. Provided project management and conducted numerous Phase I environmental site assessments throughout the United States to determine potential environmental liabilities associated with property acquisitions and divestitures. *(Individual Experience)*

NEPA Investigations, American Tower and Signal One, LLC, Nationwide

Project Manager. Provided project management and conducted numerous NEPA investigations throughout the United States in conjunction with Phase I ESAs to meet documentation requirements of the national environmental

policy act for cellular tower sites. *(Individual Experience)*

NPDES Compliance Support, Various Clients, Southeastern United States

Project Manager. Submitted NPDES permits to regulatory agencies for construction stormwater projects, conducted compliance audits to maintain the permit, and implemented P2 measures to ensure permit compliance. Authored Best Management Practices (BMP) Plans for construction stormwater projects. *(Individual Experience)*

Mercury Remediation, Confidential Client, Birmingham, Alabama

Project Manager. Environmental manager responsible for the establishment, coordination, oversight, and execution of a mercury waste remediation project in a residential setting for a public utility. Conducted laboratory analysis to determine mercury content using an onsite DMA-80 instrument and a portable atomic absorption spectrometer. *(Individual Experience)*

Water System Efficiency Study, Birmingham Water Works, Birmingham, Alabama

Staff Scientist. Performed lifecycle data analysis of water system flow measurement to determine efficiency of the overall system. *(Individual Experience)*

SPCC Plans and Training, BellSouth Mobility, Mobile, Alabama

Project Manager. Developed SPCC plan for mobile data center and conducted annual training per SPCC guidelines. *(Individual Experience)*

Memberships

1. Registered Environmental Manager, National Registry of Environmental Professionals, since 2004
2. Women in Defense, since 2009

Publications

Demonstration/Validation for Federal Specification MMM-A-121 Hazardous Air Pollutant-Free Adhesive Replacement, Army Research Laboratory, April 2011.