

An Inventory of Brownfields in Humboldt County, California

by

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ABSTRACT

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The assessment, remediation, and redevelopment of brownfields have numerous benefits to the natural and human environment. This study was conducted to model the extent of brownfield sites in Humboldt County, California. Several factors increase the difficulty of determining what should be included in a brownfield inventory: the large varied property involved, the private and changing nature of land tenure, and the varying quality of data. A geographic information system (GIS) inventory was established using information obtained from federal, state, and local information sources that detail contamination status, environmental concerns, and existing land use. Data gaps and inaccuracies were addressed through key informant interviews and site visits. From this data, a predictive GIS model was created. To test the efficacy of the model, field surveys were conducted in a subset of the study area. Field survey results and site assessment work were integrated into the model. The research suggests that as many as 9,425 hectares of property in Humboldt County meet the conceptual definition of a brownfield. The results of the study indicate that the GIS brownfield model is an important contribution to the implementation of ground surveys, planning, and incentive programs to facilitate site reuse in Humboldt County.

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INTRODUCTION

“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” (Small Business Liability Relief and Brownfields Revitalization Act 2002). Brownfield properties can pose risks to the health of humans and the natural environment. The existence of brownfields often represents a waste of land resources, infrastructure, law enforcement, and regulatory activity (Meyer 2003). Soil, structures, and groundwater on California brownfield sites may be contaminated with chemicals ranging from simple diesel fuel to extremely hazardous dioxins (California Trade and Commerce Agency 1997). The risk a brownfield poses to the community and the environment often goes unquantified as the site sits idle or underutilized (Thomas 2002). Cleaning up and reinvesting in brownfields takes development pressure off of undeveloped open land, improves and protects the environment, and fosters economic development. Humboldt County, which is comprised of small municipalities and rural communities, faces particular challenges in the assessment, remediation, and reuse of brownfield properties. Prime among these challenges is a lack of information about brownfields, and specifically the lack of a countywide inventory of brownfield sites (National Association of Development Organizations 2002).

This study defines an effective approach for the inventory of brownfields in small municipal and rural areas. A predictive GIS model was created in order to provide information on the location of brownfields. The model was then tested with ground surveys in a subset of the study area. Data from ground surveys were incorporated into the inventory. Localized emphasis is on the creation of an inventory that can serve as a basis for land use planning and brownfield site reuse in Humboldt County and other similar jurisdictions.

There is a perception that brownfields are an urban problem, and some have defined brownfields as properties that are found strictly in urban or urbanized locations (Geltman 2000). It is true that brownfields are most commonly found in areas that are urbanized and have a history of industrial activity, but brownfields also occur in small municipalities and rural communities. The US Conference of Mayors conducted a survey of 200 American cities in January 1996. The survey results showed that city size is not a relevant factor in predicting where brownfields are located (Russ 2000). Brownfields have been defined in a number of ways. A conceptual definition allows for a general understanding of what a brownfield is, while a regulatory definition assumes a conceptual definition, but goes further by determining a site's eligibility for funding opportunities and particular programs (Yount 2003).

The Small Business Liability Relief and Brownfield Revitalization Act of 2002, known as the Brownfields Law, provides a good conceptual definition of a brownfield as “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.”

This conceptual definition is the cornerstone of this inventory.

The 2002 Brownfields Law made specific regulatory exceptions as to what types of properties may be considered brownfields. According to this law, brownfields do not include sites defined as Superfund sites under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA). Additionally, the 2002 Brownfields Law precludes sites that are contaminated with certain compounds, such as radionuclides, from designation as brownfields. In addition to establishing a brownfield definition, the law also established a program to provide grant funds for the establishment of brownfield inventories (United States Environmental Protection Agency 2007).

Sarah Coffin’s “Closing the Brownfield Information Gap: Some Practical Methods for Identifying Brownfields” (2003) defines an inventory procedure that could be adapted to areas across the nation. Coffin states that a successful brownfield inventory includes the utilization of official environmental information sources and both official and unofficial non-environmental information sources. Coffin suggests that environmental practitioners use official environmental information sources as a starting point and then flesh out the brownfield inventory with non-environmental information sources. The article points out the complexity of the brownfields issue by conceding that information on the state level is variable in completeness, format, and accessibility.

Coffin discusses non-environmental information sources that may be helpful in the process of compiling a brownfields inventory. These sources include parcel information, current land use and zoning data, and national industrial classification

databases. This information can be used to identify commercial and industrial properties. Tax records can be used to determine tax delinquency of commercial and industrial properties; tax delinquency may be an indicator of an abandoned property. Coffin concludes by noting that environmental and non-environmental data can be combined in a geographic information system, using parcel numbers as a key identifier, to create a brownfield inventory (Coffin 2003).

A geographic information system (GIS) is a computer-based technology capable of assembling, storing, manipulating, and displaying geographically referenced information (O'Sullivan and Unwin 2003). GIS has been used effectively to track changes in land tenure, land uses, and complex sociological issues. GIS is becoming increasingly important in land use planning and has been applied on every jurisdictional level (Heasley 2003). In fall 2008, Humboldt County introduced the Humboldt County Web GIS portal. Users are able to access a variety of geographic information on the Web site, such as parcel maps, aerial photos, hazard maps, jurisdictional boundaries, and information about land available for commercial, residential, and industrial development. The Humboldt County Web GIS portal displays most of the information that is included in the Humboldt County Land Information System (LIS). The LIS contains the site address, zoning, general plan designation, and use code for every parcel in the county. Ownership information is not included on the Web GIS (Humboldt County 2008b).

Lack of funding and technical expertise challenge small municipal and rural jurisdictions in their efforts to create brownfield inventories (National Association of Development Organizations 2002). In these areas, there may be a perception that

sufficient “greenfields,” or undeveloped areas, are available for development and that, therefore, land recycling efforts are unnecessary. In addition, the price and demand for real estate are typically lower in rural areas, making brownfield redevelopment projects less likely to take place (Bartsch et al. 1997). Funding and expertise issues are a concern for smaller jurisdictions with populations less than 400,000 (National Association of Development Organizations 2002). A brownfield inventory can form cooperative relationships between and within governments. A publicly available brownfield inventory provides citizens with information on contaminated land within their communities and creates opportunities for early stage community involvement in land recycling projects (Coffin 2003).

A number of cities, counties, and states have performed brownfield inventories within their jurisdictions. In 2004, the Minnesota Pollution Control Agency created a well-constructed, Web-accessible GIS-based resource that is available to the general public. The Web site, called “What’s in My Neighborhood?,” has been updated in subsequent years to reflect changes in available data. This program represents a successful cooperation of state and local organizations, including the University of Minnesota, to create a database listing a variety of site classifications, including brownfield sites, toxic releases, sites assessed and deemed to be clean, and successful remediation and redevelopment projects. The project covers the entire state of Minnesota and represents the efforts of many people and several hundred thousand dollars. The “What’s in My Neighborhood?” program provides an exemplary template to which to aspire (Minnesota Pollution Control Agency 2005).

Entities, such as the City of Emeryville, California, have begun brownfield inventory programs within their jurisdictions, only to see them fail from lack of political will, high cost, and technical difficulties. It should be noted that Emeryville, strategically located in the booming San Francisco Bay region, has seen several billion dollars' worth of brownfield redevelopment projects conducted within its seven-square-mile area (Dayrit 2003, personal communication). Although Emeryville is revered among municipal officials statewide for its success at turning brownfields into big-dollar development projects (Oetker 2003, personal communication), it has not created a publicly accessible brownfield survey. This is because brownfield conditions are not static and maintaining an accurate and publicly-available brownfield database is costly (Dayrit 2004, personal communication).

Regulatory agencies at the federal, state, and local levels establish liability for site cleanup costs, require cleanup actions, provide incentives for site reuse, and maintain information on contaminated sites. The federal agency that fills this role is the United States Environmental Protection Agency. At the state level, the California Department of Toxic Substances Control regulates sites deemed to be potential threats to human health, while the California regional water quality control boards regulate sites that may impact water quality. At the county level, local oversight programs are responsible for leaking underground tank cases on authority granted to them by the regional water quality control boards (California Center for Land Recycling 2006).

The Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) is a database created and maintained by the United States

Environmental Protection Agency. It is a product of the Superfund law. Of the sites on the CERCLIS list, the most contaminated are the national priorities list properties, or Superfund properties. Also included on the list are “no further remedial action planned” sites that have either been cleaned up or evaluated to the point where the site is not considered to pose a serious threat to public safety; however, these sites cannot be considered clean. The CERCLIS database also contains listings of sites that have been referred to other agencies, usually at the state level (United States Environmental Protection Agency 2005).

California’s Department of Toxic Substances Control maintains an automated database of properties where hazardous substances have been released, or where the potential for release exists. The database is known as the EnviroStor Data Management System. EnviroStor is searchable by city, ZIP code, or county. The user can decide if the search results will be displayed in a tabular listing or a map format. EnviroStor contains the following types of sites: federal Superfund sites, state response sites, voluntary cleanup sites, school cleanup sites, corrective action sites, and permitted hazardous waste facilities. The EnviroStor mapping application does not allow users to access ownership or parcel information, and geographic information is provided in a point format (California Department of Toxic Substances Control 2007).

The regional water quality control boards in California maintain publicly available data about hazardous substances and contaminated sites. In 1997, concern over groundwater contamination from methyl tertiary butyl ether led to the passage of state laws that increased the quantity and quality of information available to regulators and the

public about leaking underground fuel tanks. In addition, state laws were passed to increase the monitoring of and standards for the operation of underground fuel tanks. The California State Legislature passed a law to investigate the feasibility of establishing a statewide GIS for leaking underground fuel tank sites in 1998 (California Environmental Protection Agency 1998).

One result of this legislation was GeoTracker, a GIS program that enabled computer users to access the State Water Resources Control Board's environmental data. GeoTracker contains information about the following types of sites: underground storage tank sites; Spills, Leaks, Investigations, and Cleanups (SLIC) sites; land disposal sites; and Department of Defense sites. SLIC site status results from contamination of water and groundwater from sources other than leaking underground storage tanks. Land disposal sites are open or closed waste disposal areas (California State Water Resources Control Board 2009).

The accuracy of the data presented in GeoTracker has improved due to the digital reporting requirements in Assembly Bill 592 and Senate Bill 1189. The spatial accuracy of sites identified before 1996 was poor. In some instances, sites were located by dropping a point in the center of the polygon identified by the site's ZIP code. In other cases, the sites were positioned on the map by using addresses which may have been incorrect or inaccurate (California State Water Resources Control Board 2010).

The State Water Resources Control Board began collecting data on contaminated sites in the late 1960s. At that time, computer and GIS technologies were in their infancy and the only reliable method for regulators to find and identify sites was by a physical

address. It was for this reason that assessor's parcel numbers are not part of the North Coast Regional Water Quality Control Board's site identification procedures. Recent legislative rules have required all newly identified sites to be spatially positioned using global positioning system equipment (Ashley 2005, personal communication).

In California counties, the county division of environmental health is responsible for maintaining lists of sites that are contaminated or that have the potential to become contaminated. Often, two programs exist within a county for this purpose: a certified unified program agency (CUPA) and a local oversight program (LOP). The CUPA does not provide information about contamination on sites, but instead is a permitting and inspecting agency for tank operators (Martel2005, personal communication).

The LOP is the county agency that oversees monitoring and cleanup plans of sites that are contaminated primarily with petroleum products. The LOP maintains a publicly accessible listing of open and closed sites that are primarily associated with aboveground storage tanks and underground storage tanks. On "open" sites, monitoring and cleanup requirements are still under evaluation. "Closed" sites are those where a determination has been made that the area will not pose a threat to water quality within "a reasonable period of time." A reasonable period of time is considered to be some time less than 25 years. It should be noted that although closed sites have completed regulatory requirements, they still may be substantially contaminated (Verhay 2005, personal communication).

Assembly Bill 592 and Senate Bill 1189 had significant positive impacts on the coordination of data creation and retention efforts between the regional water quality

control boards and the local oversight programs. Due to the heightened reporting requirements under these laws, all information associated with LOP sites is accessible through the GeoTracker Web information system (California State Water Resources Control Board 2010).

The private sector plays an important role in collecting environmental data. Many commercial and industrial real estate transactions are accompanied by a phase I environmental site assessment. The environmental site assessment is a tool that prospective purchasers use to protect themselves from liability for contamination of the property to be purchased and the contamination of abutting properties.

The procedures and content involved in conducting a phase I environmental site assessment are detailed in the American Society of Testing and Materials practice E 1527-05. The three general components of a phase I environmental site assessment are site reconnaissance, interviews with current owners and occupants of the property, and a records review. The phase I environmental site assessment does not entail physical sampling of soil or water on a site but relies on the sight and sense of smell of the assessor to determine site conditions. American Society of Testing and Materials practice E 1527-05 also details the federal and state environmental databases that should be searched as a part of a phase I environmental site assessment. These searches have prescribed radii and amount to an inventory of sites in the vicinity of the subject parcel (American Society of Testing and Materials 2005).

Phase I environmental site assessments are usually not a part of the public record; they are the property of the entity that contracted for their completion. Environmental

assessors are required to report conditions that may impact human health or water quality to the appropriate regulatory agency as a condition of licensure. If a phase I environmental site assessment is conducted and a recognized environmental condition is identified on the subject property, a phase II environmental assessment is usually warranted. The phase II environmental site assessment is conducted with sampling and analysis of material from the site and is intended to characterize and determine the extent of contamination (Kaspari 2005, personal communication).

County sheriffs' departments have occasionally become involved with land contamination and hazardous substance discharges that are associated with criminal activity. Sites contaminated by the illegal manufacturing of drugs are specifically eligible for Environmental Protection Agency assessment and cleanup grants (United States Environmental Protection Agency 2007).

The redevelopment process in California was enabled by legislation that allowed for the creation of redevelopment agencies. These laws give planning jurisdictions two main powers: the power to rearrange private land ownership patterns and the ability to leverage financial resources to subsidize or assist private development projects deemed to be in the public interest (Fulton 1999). Redevelopment agencies are often important players in the inventory and redevelopment of brownfield sites because they are able to leverage funds and provide incentives for these projects (California Center for Land Recycling 2001).

STUDY SITE

Figure 1 shows Humboldt County's location, major roads, cities, Indian lands and unincorporated communities. The county has a land area of 6,521 square kilometers. The bulk of Humboldt County's land area is unincorporated. Unincorporated areas are often defined by only a name describing a community, and potentially a post office, and they often have their own designated fire protection and municipal service districts. There are seven municipalities in Humboldt County: Eureka, Arcata, Fortuna, Ferndale, Rio Dell, Blue Lake, and Trinidad. These cities account for approximately 91 square kilometers, or about 1.4 percent of the county's land area.

In the past, Humboldt County's ocean, rivers, and forests provided fish and lumber that formed the backbone of the local economy. As these resources became scarce and the industries became more closely regulated, fishing and timber began a slow decline that started in the 1960s (Hackett 1999). One result of this decline is that an unknown number of abandoned, idled, and underutilized industrial and commercial properties are scattered across the county (Holschuh 2001). These abandoned or idled sites, such as sawmills and boatyards, may be contaminated with environmental pollutants that can pose a health risk to people and the local ecosystem. The extent of the brownfield problem goes beyond large abandoned mill sites. Leaking underground storage tanks are common and the failure of these tanks creates many brownfield sites in the county. There has been no countywide effort to inventory brownfield sites.

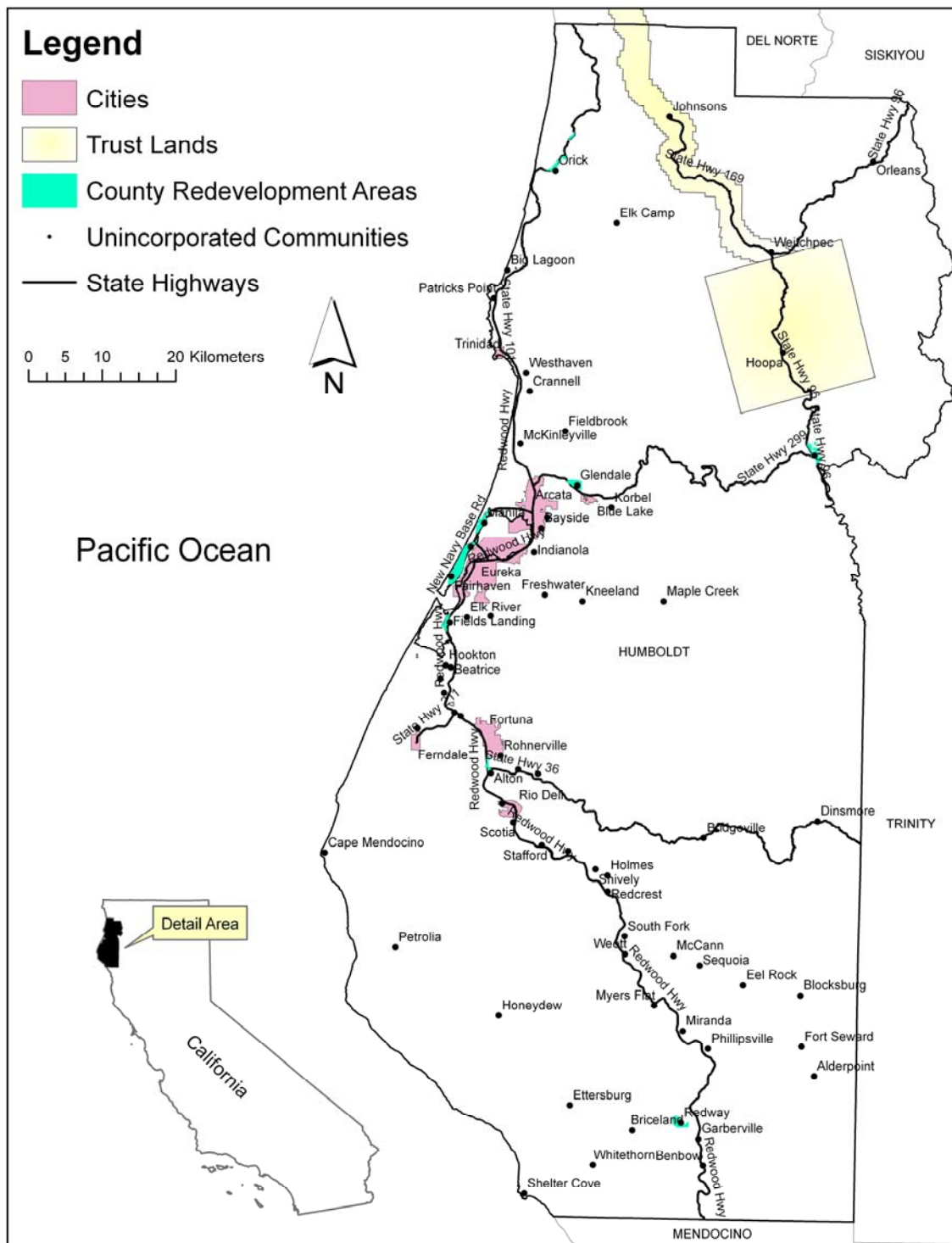


Figure 1. Humboldt County jurisdictions and redevelopment areas.

The administrative structure of Humboldt County is typical of California counties: a county government assumes administrative responsibility for the unincorporated portions of the county and municipal governments are responsible for most government functions in the cities. The Humboldt County Department of Environmental Health houses the Local Oversight Program which is responsible for protecting water quality from tank releases in the entire county, including the cities.

Humboldt County contains two Indian reservations: the Hoopa Valley Indian Reservation and the Yurok Indian Reservation. In addition to these reservations, there are several rancherias and small tribal land holdings sprinkled throughout Humboldt County's municipalities and unincorporated areas. The Hoopa Valley Tribe has already completed a brownfield inventory on their reservation (Tribal Environmental Protection Agency, Hoopa Valley Tribe 2005).

Arcata, Eureka, and Fortuna have active redevelopment agencies. The County of Humboldt formed a redevelopment agency, but the board of supervisors never adopted a plan and the agency is inactive. The boundaries of a redevelopment area are defined to include blighted areas; all redevelopment areas in the county include brownfield properties (Oetker 2004, personal communication; Trobitz-Thomas 2005, personal communication).

Throughout the public participation efforts for the county's general plan update, the following issues have been consistently raised: a desire to protect existing open space, natural resources, working farms, and forest lands; a desire to provide more affordable housing; and the need to provide room for development in a county where infrastructure

for that development is severely limited (Humboldt County 2008a). Brownfield redevelopment may play a key role in addressing these issues and some brownfield redevelopment projects have been completed in Humboldt County and its cities, but it is clear that there is additional room for development on brownfields in the county. Planning for that development is hampered by the fact that there has been no countywide effort to inventory brownfields (Tressler 2002).

METHODS

To inventory and create a GIS model of brownfield sites in Humboldt County, I followed methods used by other jurisdictions and documented in the literature (Coffin 2003, American Society for Testing and Materials 2005, Minnesota Pollution Control Agency 2005). Environmental data from the Environmental Protection Agency, the Department of Toxic Substances Control, the Regional Board, and the Humboldt County Local Oversight Program were combined with non-environmental data from sources including municipalities, the Humboldt County Land Information System, the Humboldt County Community Development Services Department, the Humboldt County Assessor's Office, and the Humboldt Bay Harbor Recreation and Conservation District. These combined data were incorporated into the GIS to create a base inventory. Table 1 is a summary of the methods used to create the GIS model. After the base inventory was created, ground surveys were conducted to determine if the initial GIS model identified all the brownfield sites in a given area. Initial attempts to conduct ground surveys of the entire study area were not successful due to the size of the county and the large number of potential sites. The scope of the intensive ground surveys was limited to the Humboldt County redevelopment areas.

Interviews were conducted with the director and staff of the Humboldt County Community Development Services Department (Girard 2005, personal communication; Mushrush 2005, personal communication). These interviews yielded a list of approximately 50 properties in Microsoft Excel database format. Entries in this data contain a site name and a city or area name. Some entries in this data also include a site address or intersection. It was agreed that sites should be associated with assessor's parcel numbers (APNs).

Table 1. Summary of methods used.

Data Name	Data Source	Data Type	Method Used
County Mill Sites	County of Humboldt	Site names, addresses, and/or APNs	GIS geocoding, manual geocoding, and key informant interviews integrated into GIS shapefile of parcels
Vacant Industrial Parcels	County of Humboldt Land Information System	Existing Land Use	Query LIS for parcels with a vacant industrial land use designation, results integrated into a shapefile
Arcata Sites	City of Arcata	APNs, paper maps	GIS selection of parcels based on APN integrated into GIS shapefile of parcels
Harbor District Sites	Humboldt Bay Harbor Recreation and Conservation District	APNs from Harbor District Survey	GIS selection of parcels based on APN integrated into GIS shapefile of parcels
CERCLIS Sites	United States Environmental Protection Agency	Environmental records with address or other site identifier	GIS geocoding, manual geocoding, and key informant interviews integrated into GIS shapefile of parcels
DTSC Sites	California Department of Toxic Substances Control	Environmental records with address or other site identifier	GIS geocoding, manual geocoding, and key informant interview integrated into GIS shapefile of parcels
RWQCB Sites	California Regional Water Quality Control Board; GeoTracker Program	Environmental records with GIS points	GIS geocoding from point file, manual geocoding from point file, and key informant interview
Redevelopment Area Sites	County of Humboldt	APNs from blight survey and environmental and non-environmental data sources listed above	GIS mapping of APNs with environmental records, field surveys of identified parcels integrated into GIS shapefile, some site assessment work conducted

Staff at the Humboldt County Assessor's Office were interviewed to determine an approach to associate a site name or address with an APN. This interview yielded another list of parcels associated with Humboldt County mill sites. Lumber and forest products mills, which are often contaminated, contributed significantly to the county's property tax revenue stream, and at one time the county tracked operational and shuttered sites to maintain tax revenues. The list of parcels from the Assessor's Office and the list of sites from the community development services department were combined. Using Parcelquest, a licensed software product that is based on scanned tax maps, combined with information from printed parcel map books kept on file in the Assessor's Office and key informant interviews, most sites that did not initially have APNs were matched with one or more APNs.

The Humboldt County parcel layer and land information system (LIS) data were obtained from the Humboldt County GIS technician (Humboldt County 2008b). Once each site was associated with one or more assessor's parcel numbers, it could be mapped in a GIS format and linked to the data in the Humboldt County LIS. The land information system contains ownership, land use, and improvement value information. Once the prototype GIS brownfield model was established, aerial photos and parcel layer and LIS information were used to identify additional the parcels on the list. Some key informant interviews were necessary to positively associate sites on the original list with parcel numbers. Interviews with environmental professionals who have been working in the county proved particularly useful in identifying and locating sites (Foget 2005, personal communication; Kaspari 2005, personal communication; Ulibarri 2005, personal

communication). In addition, veteran staff at the Humboldt County Department of Environmental Health (Verhay 2005, personal communication) and community service district and city staff were also helpful (Buck 2005, personal communication; Paine 2005, personal communication). Once the parcelization of the original data was complete, I created a GIS shapefile of county mill sites.

A meeting was conducted in November 2004 with the Humboldt County Planning Division's senior planner. He suggested querying the Humboldt County Land Information System for vacant industrial properties. He speculated that many of these properties were used, abused, and discarded. Consequently, this simple data query could result in an inventory of brownfields in Humboldt County (Hofweber 2005, personal communication). The land information system was queried as suggested for vacant light industrial and vacant heavy industrial properties. These query results were converted into a shapefile.

An interview with the Deputy Director of Redevelopment for the City of Arcata to determine if the city had information about brownfields was conducted in the spring of 2004 (Oetker 2004, personal communication). The Arcata Planning Department staff had created a list of vacant or underutilized industrial properties within Arcata's city limits. The packet included aerial photos of the sites and text describing the infrastructure available on the sites. After updating the data to remove redundant entries, I included the identified sites in the GIS database.

In March 2005, I contacted the GIS coordinator for the Engineering Department in the City of Eureka (Topolowski 2005, personal communication). The interview did

not yield any new sources of information. In September 2004, I contacted the City of Rio Dell and conducted interviews with Rio Dell's City Manager and Superintendent of Public Works to gather information on contaminated properties in Rio Dell (Hale 2004, personal communication; Naffa 2004, personal communication). The interviews did not yield any sites that were not identified by other means but did provide background information on site history and community redevelopment needs in Rio Dell. An interview with the Blue Lake City Manager was arranged in February 2005 (Buck 2005, personal communication). Sites were discussed that had been mapped in Blue Lake from other sources. Again, the interview was useful to gather the city's perspective on the status of the identified sites but did not yield any additional sites in Blue Lake. Repeated attempts to gather information on brownfields from staff members in the cities of Fortuna, Ferndale, and Trinidad were unsuccessful.

The Humboldt Bay Harbor Recreation and Conservation District is responsible for managing Humboldt Bay for commercial, recreational, and conservation purposes. The district owns properties in several locations in and around the bay. In May 2004, research on Humboldt Bay brownfields led to the Humboldt Bay Harbor Revitalization Plan. An appendix to this document lists properties which fall in the Harbor District's jurisdiction and were being evaluated for the preparation of the plan (Humboldt Bay Harbor Recreation and Conservation District 2003). The database contains information on properties in the district and includes information on properties that were thought to have issues with environmental contamination. Because assessor's parcel numbers were

included, incorporating this data into the GIS brownfield inventory was a simple procedure. The Harbor District data was joined to the parcel layer to map these sites.

Databases that contain information on contaminated properties are available on the Web and include site listings from federal, state, and local agencies. These record sources were reviewed and included the GIS inventory. The federal Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) database for Humboldt County was downloaded from the Environmental Protection Agency's Web site into a Microsoft Excel database file. The data were incomplete and inaccurate. Addresses and typographic errors were corrected. The ArcMap[®] software's address locator tool was used to geocode the addresses of the CERCLIS sites, meaning spatial attributes were assigned to nonspatial data. The geocoding results based on street address were not complete or definitive; geocoding yields a point location rather than a parcel polygon. Points were associated with APNs via the same process used for the data supplied by Humboldt County. When all CERCLIS sites had been associated with parcels, a final GIS shapefile was created.

The Department of Toxic Substances Control's EnviroStor database is analogous to the Environmental Protection Agency's CERCLIS database. The process used to associate CERCLIS sites with assessor's parcel numbers was duplicated to create a shapefile of Department of Toxic Substances Control sites.

During the course of the research period, major improvements were made to the accessibility of site contamination data from the North Coast Regional Water Quality Control Board (Regional Board). All Regional Board site data, including county Local

Oversight Program data, became available on the Web. These data were downloaded for Humboldt County and were associated with parcels. As discussed in the introduction, data created before 1996 did not have enough spatial accuracy to directly associate point locations with parcels. The 97 pre-1996 sites, 18.4 percent of the total, required manual association to individual parcels. This was accomplished using the same techniques used to parcelize the data from the EnviroStor and CERCLIS databases.

In 2004, Humboldt County contracted a consultant to perform a blight survey on the eight proposed redevelopment areas in the county. Figure 1 shows the locations of the proposed Humboldt County redevelopment areas. The blight survey was conducted as a standard procedure leading up to the legal adoption of the redevelopment agency. The blight survey included mapping of blighted commercial and industrial parcels (Willdan Associates 2004).

Ground surveys of the proposed redevelopment areas were conducted in fall 2005 to determine the efficacy of the data sources at identifying brownfield sites. Maps were created that combined the seven environmental and non-environmental data sources listed above. Using these maps, visual assessments of the redevelopment areas were performed. The survey sampling process involved driving, walking, or biking to all parcels identified by maps and the blight survey. Sites were visually evaluated using the criteria for site reconnaissance set forth in the American Society for Testing and Materials (ASTM) standard practice for phase I environmental site assessments. The ASTM standard instructs assessors to investigate items including, but not limited to: solid waste, tanks, drums, liquid containers, soil or pavement staining, sumps, odors, and drains. The

ground survey was conducted from public rights of way. Site access was not sought at this phase of the project. If the sites had evidence or potential evidence of items described in the ASTM standard, or a documented history of environmental contamination, that parcel was included in a list of potential brownfield sites in that redevelopment area. After the ground survey was concluded, property owners of these potential brownfield sites were contacted by phone or by letter using information provided by the Humboldt County Land Information System. These property owners were offered a phase I environmental site assessment free of charge. Some property owners took this offer of grant-funded site assessment work for their properties. Of this small subset of the original property list, several were cleared of having any recognized environmental condition. These cleared properties were removed from the list of potential brownfield sites. A shapefile of the parcels identified by the ground survey was created for each redevelopment area.

Once the shapefiles described above were created, a summation of the data was performed in the GIS. The summation eliminated the duplication of parcels identified by more than one data source and this list of distinct parcels resulted in an overview of brownfield conditions in Humboldt County.

RESULTS

The brownfield GIS model, a fusion of all data sources, determined that there are 853 distinct brownfield parcels in Humboldt County. These parcels account for a total land area of 9,425.4 hectares. A cartographic representation of these parcels is shown in Figure 2. If closed Regional Water Quality Control Board sites are excluded from the summation of all data sources, the number of brownfield parcels drops to 563 for a total land area of 5,871.9 hectares.

In the category of non-environmental data, 131 parcels were identified from information gathered at the Humboldt County Assessor's Office and the Community Development Services Department and account for approximately 1,263.5 hectares. This data is presented in abridged format in Table 2. The parcels that resulted from the query of the Humboldt County Land Information System for vacant light and heavy industrial properties are spread out over the unincorporated areas of the county. In the vacant heavy-industrial category there are 75 parcels that account for a total of 189.6 hectares. In the vacant light-industrial category there are 43 parcels that account for a total of 36.8 hectares. The City of Arcata's brownfield inventory includes 29 parcels that total 28.6 hectares. The 66 parcels identified by the Humboldt Bay Harbor Recreation and Conservation District amount to 596.3 hectares. The assessor's parcel numbers for the data sources listed above are included in Appendix A, and GIS shapefile data is included in Appendix B.

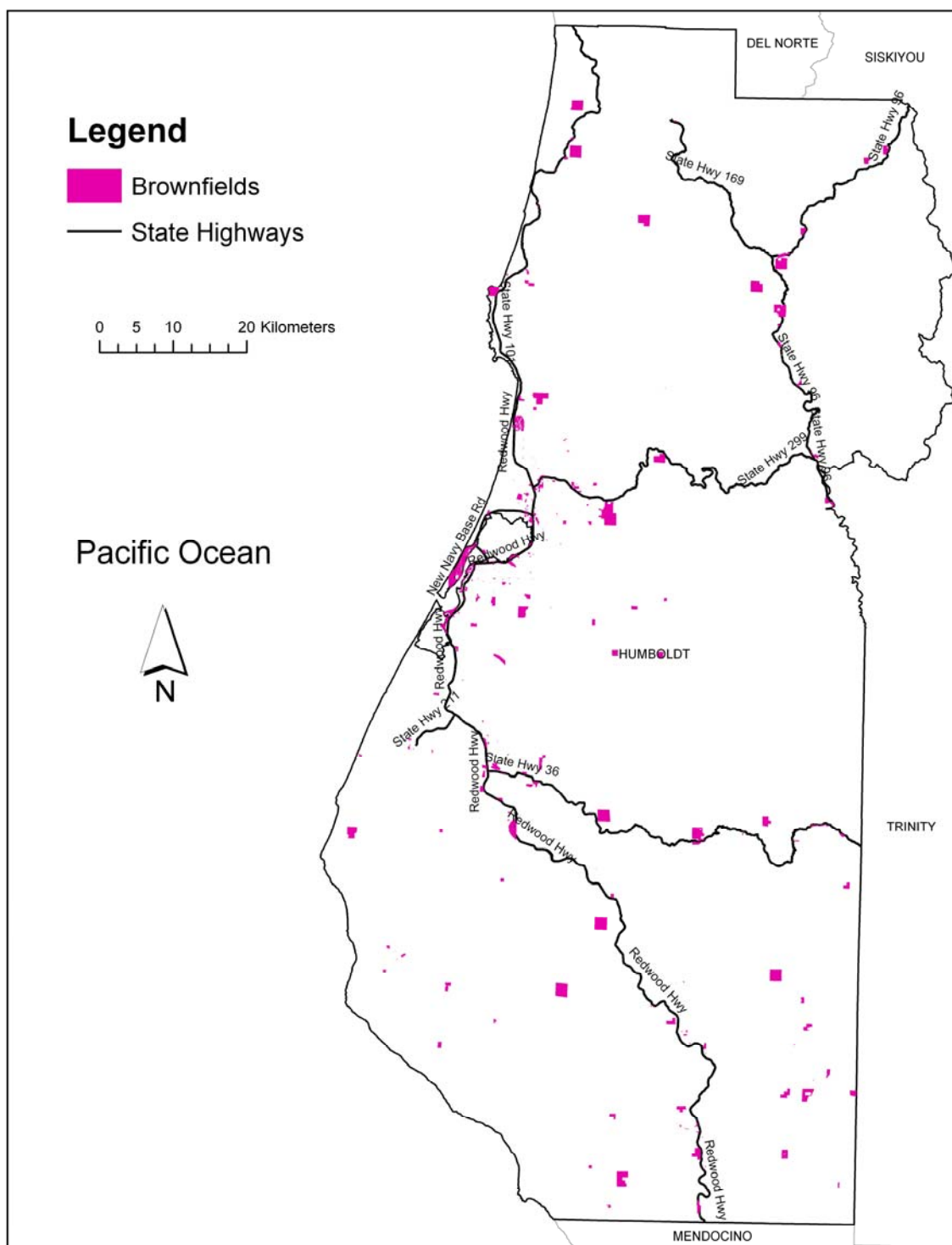


Figure 2. Humboldt County brownfields.

Table 2. Abridged Humboldt County mill sites results.

Mill Site Name	Location	Parcels	Area (hectares)
Amarant Wood Products Inc.	Arcata	1	0.82
Arcata Redwood Company	Arcata	1	17.4
Arcata Redwood, Simpson	Arcata	2	30.64
Beaver Lumber Company	Arcata	1	3.39
Berry Glen	Orick	1	1.49
Blue Lake Forest Products	Glendale	7	11.47
Bob Britt Lumber	Arcata	3	28.7
Bracutt Lumber Co.	Bracutt	1	6.91
Cal Pac	Hoopa	2	33.86
Cascade Forest Products	Arcata	1	4.67
Crown Simpson Pulpmill	Fairhaven	7	101.69
Eel River Sawmills	Hydesville	1	5.52
Eel River Sawmills	Fortuna	1	5.65
Eel River Sawmills Mill A	Rio Dell	9	18.9
Elk River Mill and Lumber Co.	Faulk	1	75.99
Emerson Lumber Co./SPI mill	Manila	5	16.2
Georgia Pacific	Myers Flat	1	2.46
Hoopa Timber Co.	Hoopa	13	25.95
Humboldt Bay Forest Products	Fields Landing	6	23.67
Humboldt Flakeboard	Arcata	1	2.78
Little Lakes Mill	Arcata	2	4.67
Louisiana Pacific Corp.	Alderpoint	2	.78
Louisiana Pacific Corp.	Dinsmore	3	21.83
Louisiana Pacific Corp.	Crannell	1	200.51
McNamara and Peepe	Glendale	2	4
Pacific Lumber Co, Yager Camp	Carlotta/ Hydesville	2	84.51
Pacific Lumber Co. Carlotta Mill	Carlotta	6	35.45
Pacific Lumber Co.	Fortuna	12	27.04
Pilot Lumber Co.	Willow Creek	2	24.04
Reid and Wright Mill	Arcata	4	3.83
Samoa Bridge Site	Eureka	1	9.5
Schmidbauer Lumber Co.	Eureka	3	1.7
Sierra Pacific	Eureka	2	6.34
Simpson Corp.	Big Lagoon	4	6.43
Simpson Corp	Samoa	1	3.4
Simpson Timber Co.	Korbel	4	238.16
Simpson Timber Co.	Arcata	2	50.91
Simpson Timber Plywood Mill (Old)	Eureka	1	8.2

Table 2 (continued). Abridged Humboldt County mill sites results.

Mill Site Name	Location	Parcels	Area (hectares)
Trend Stud Mill	Glendale	2	1.64
Westbrook Export Co.	Fields Landing	1	1.06
Willow Creek Inc.	Willow Creek	3	32.32

The results described below are from the environmental data sources used to create the GIS brownfield model. There are no EPA national priority list sites in Humboldt County. There are 13 sites identified as “referral” or “no further remedial action planned” in the CERCLIS database for Humboldt County. Two of the EPA sites could not be positively associated with an individual parcel or parcels. Those are an illegal dump site in Weitchpec off of Cappell Road, and a mercury spill that also occurred somewhere in Weitchpec. The illegal dump site is a steep area off the road that had been used for years as a refuse dump. The remaining 11 sites have been associated with 14 parcels. The 14 parcels account for a total of 296.6 hectares. The EPA parcels are listed in Appendix A and GIS data is included in Appendix B as the shapefile “Cerclis_Sites.” The shapefile data table contains an EPA site identification number and a field that describes the site’s status.

As of September 23, 2009, the Department of Toxic Substances Control (DTSC) had 16 sites listed on its EnviroStor database for Humboldt County. Of those 16 sites, two had been referred to the North Coast Regional Board. Of the remaining 14, three are active cleanups overseen by the DTSC. The other parcels on the DTSC listing are closed cleanups, investigations, or parcels undergoing ongoing monitoring. The 14 parcels account for 285.7 hectares; some of these parcels are duplicates of the parcels found in the CERCLIS site list. The DTSC parcels are listed in tabular format in Appendix A, and GIS information is provided in Appendix B as the shapefile “DTSC_parcel.” The data table for the shapefile includes an EnviroStor identification number and case status field.

The 527 parcels identified from the Regional Water Quality Control Board (RWQCB) data account for approximately 7,718 hectares of land area. This data set includes closed cases and sites that are overseen by the Humboldt County Local Oversight Program. If only the 216 open RWQCB cases are considered, the total area for the RWQCB sites comes to 3,799 hectares. The resulting parcels are included in tabular format in Appendix A and as the shapefiles “RWQCB_sites” and “RWQCB_opensites” in Appendix B. The shapefiles include information with each parcel that details the site’s RWQCB case number, types of contamination, and status.

The results of the field surveys conducted in the Humboldt County redevelopment areas are shown in Table 3. This table includes the hectares of property identified by the brownfield GIS model, including environmental and non-environmental sources, and hectares of property identified by field surveys and environmental site assessments. Table 3 also contains the total area of property identified by the GIS model and the field surveys. Appendix A contains the assessor’s parcel numbers and redevelopment area in tabular format for the parcels described below. Appendix B contains the GIS shapefiles for the parcels in each redevelopment area; each shapfile is labeled with the name of the redevelopment area and the suffix “_br.”

Field surveys identified eight potential brownfields in the Alton redevelopment area. In 2006, with the assistance of EPA assessment grant funding, a phase I environmental site assessment was conducted on two of the parcels in question. The assessments came back clean, meaning environmental contamination does not complicate the use of the property (LACO Associates 2006).

Redevelopment area	Parcels identified by environmental and non-environmental data sources		Parcels identified by ground survey		Parcels identified by all sources combined (total)
	Area, hectares	Percent of total	Area, hectares	Percent of total	Area, hectares
Alton	7.20	46.5	13.76	88.8	15.5
Fields Landing	44.95	83.3	53.99	100.00	53.99
Glendale	38.85	81.5	36.02	75.6	47.67
Manila	15.86	78.6	19.63	97.2	20.19
Orick	34.88	97.0	33.52	93.2	35.98
Redway	6.89	82.9	3.80	43.4	8.74
Samoa/Fairhaven	426.13	78.9	485.86	94.5	513.95
Willow Creek	28.11	82.5	32.52	95.5	34.06
Total	602.89	82.6	679.08	93.0	730.08

Table 3. Summary table of results for the Humboldt County redevelopment areas.

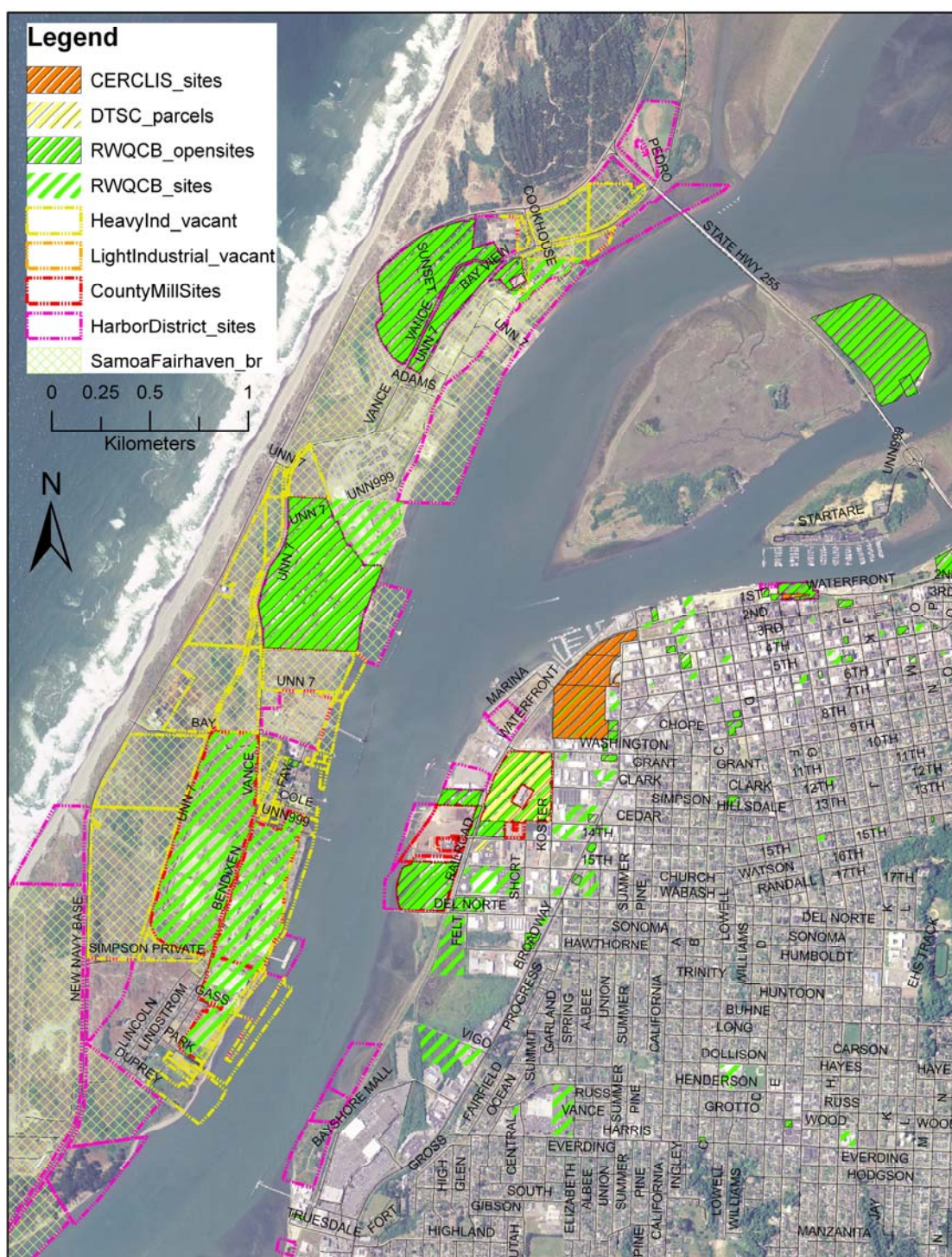
The ground survey of the Fields Landing area identified 14 parcels as brownfields. No parcels were assessed for contamination in the Fields Landing area as a part of this study. The ground survey of the Glendale redevelopment area concluded that 19 parcels were brownfields.

Manila has one active mill with contamination issues. The ground survey of the area concluded that 14 parcels in the Manila area were brownfield sites. The active Sierra Pacific Mill was included in the list due to its contamination issues that would impact the site's reuse. Most of the 14 parcels in Manila are associated with the mill. The ground survey of the Orick redevelopment area concluded that 10 parcels were brownfield sites. Phase I environmental site assessments conducted on three of these parcels cleared them of environmental concerns in 2006. The ground survey of the Redway redevelopment area concluded that eight parcels were brownfields. The sites in Redway could be characterized as small, vacant, or underutilized commercial or industrial properties.

Of the eight proposed redevelopment areas, the Samoa/Fairhaven area has the most intense industrialized past. As a result, the area also has the largest acreage of brownfield sites of all the proposed redevelopment areas. The survey of the area concluded that 39 parcels in the area could be considered brownfield properties. A phase I environmental site assessment conducted on one of these parcels cleared it of environmental concerns. The remaining 38 parcels comprise approximately 81 percent of the redevelopment area.

The ground survey of the Willow Creek area concluded that eight parcels are brownfield sites. Two of these parcels were assessed for environmental contamination under the county's EPA-funded Brownfield Assessment Program. The phase I environmental site assessment and the subsequent the phase II environmental site assessment (Winzler and Kelly 2007) concluded that the site was contaminated, primarily with petroleum products.

The brownfield GIS model can viewed on a computer equipped with ArcGIS® software using the data CD that is included in Appendix B. The shapefiles described in the methods section are to be found in Appendix B in the folders titled "Non Environmental Data Sources," "Environmental Data Sources," and "RDA Sites." Figure 3 shows an example of the information available on the brownfield GIS and Figure 4 demonstrates the use of the identify feature tool in the GIS to display Regional Water Quality Control Board site information.



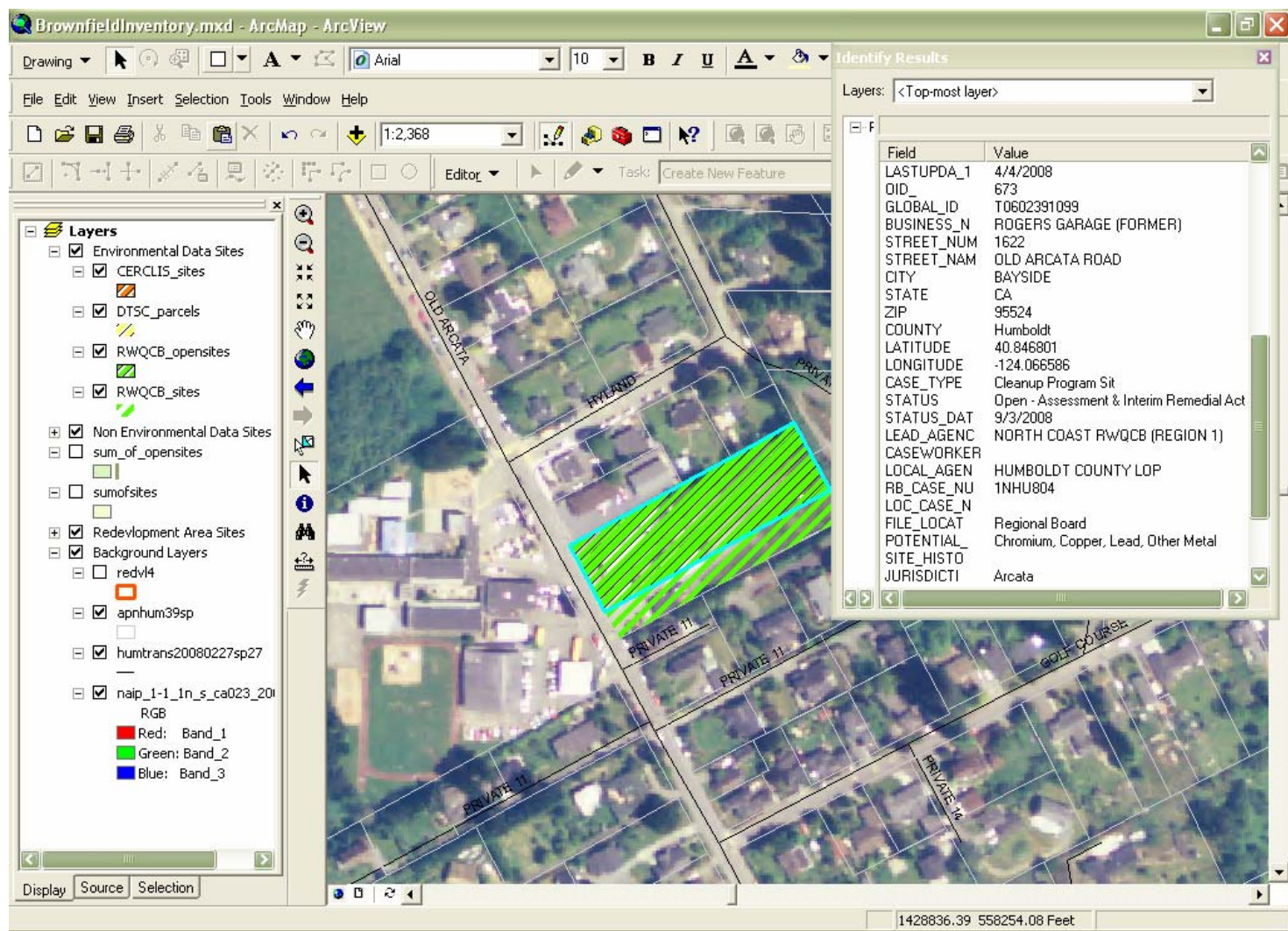


Figure 4. Screen capture showing the identify feature tool in the brownfield GIS.

DISCUSSION

At the outset of this research project, I endeavored to create an all-encompassing inventory with a single result: an inventory of brownfields across Humboldt County and all its jurisdictions. The goal of this inventory is to encourage the assessment, remediation, and redevelopment of brownfield sites. I made the assumption that contamination of brownfield sites was the primary obstacle to redevelopment or reuse of the property, while a secondary obstacle was a lack of information about the sites. Initially, a macro-scale inventory seemed a reasonable first step towards brownfield reuse. As I gained more knowledge about the county, cities, communities, tribes, and regulatory agencies involved, it became clear that a macro-scale unified brownfield inventory would be impractical. This was due to the vast and diverse study area and the fact that such an inventory would be of limited usefulness, because every property is different and resides in a different context. Therefore, the obstacles to the reuse of the properties would vary as widely as the properties themselves. The project evolved into the creation of a GIS brownfield model that would support ground surveys and site reuse planning.

Other methods of identifying brownfields for this inventory were evaluated but not incorporated into this study. Several attempts were made in spring 2005 to get information from the Humboldt County Sheriff's Office on sites contaminated in association with drug-related crimes. These attempts were unsuccessful.

Some researchers have suggested using tax delinquency to make a determination on the abandoned status of properties (Coffin 2003). Tax delinquency can be combined with use code, using the Humboldt County Land Information System, to identify idled or abandoned industrial properties. The County Treasurer was interviewed in 2005 and determined that at that time there were no brownfields on the list of tax delinquent properties (Strawn 2005, personal communication).

Sanborn maps are historic fire insurance maps that included major businesses as well as other geographic information. Sanborn maps are available for the City of Eureka but are not available for the rest of the county. They are not included in this inventory.

Historical aerial photos may be used to identify brownfield sites and to determine the historical use of sites. Most phase I environmental site assessments conducted by environmental professionals include historical aerial photos. Aerial photos were not used for this brownfield inventory owing to the large study area and high cost.

The data sources utilized to create this inventory were not exhaustive. However, this study does define and implement an effective procedure for entities in California to conduct brownfield inventories, and the results present some key benefits to brownfield reuse. The study's major benefit is the ability to take information regarding site contamination from regulatory agencies and express those data on a parcel level. This is a function that historically has not been a role of regulatory agencies but is an action that is crucial to planning site reuse strategies across the county. Addressing this information gap is the chief successes of this study. The association of parcels with other site data, whether those data represent GPS points, addresses, or other site descriptors, has

numerous benefits. The land parcel is the basic unit for land use and planning. If the parcel is known, other pertinent information is also known, such as the site's acreage, owner, land use designation, general plan designation, zoning, and access to infrastructure and services including wastewater, water, fire protection, and transportation. Infrastructure is a key limitation to development in many of Humboldt County's cities and communities. Creating an area-wide GIS brownfield model from environmental and non-environmental sources is a crucial starting point for subsequent localized survey and reuse planning activities.

The identification of sites by parcel boundaries allows for an analysis of constraints on the potential reuse of a site. Once the parcel boundaries of a site are known, the site's exposure to flooding is also known. Tsunami inundation is a site constraint that became a priority for hazard mitigation after the devastating Indian Ocean Tsunami of 2004. After that event, local planners and the California Coastal Commission were forced to rethink the range of land uses that might be appropriate for properties in the tsunami inundation zone. Much of Humboldt County's industrial past has been focused in and around Humboldt Bay, and as a result there are significant brownfield sites in that area. Many of these sites are wholly or partially located in the tsunami inundation zone.

Landowners are a key factor in any development project. Once a parcel has been identified as a brownfield, the landowner is known and discussions may begin to determine if interest in reuse exists. If the landowner is interested in a reuse project, local jurisdictions may be able to provide incentives such as grant funding for site assessment,

low interest loans or grants for cleanups, and assistance with land use entitlements such as zoning and general plan changes or even lot line adjustment and subdivision assistance.

The Humboldt County mill site shapefile, presented in tabular format in Table 2, is a fairly good snapshot of lumber and forest product mills that have been active in the past 20 years. The Arcata brownfields shapefile accurately depicts larger brownfield sites in Arcata. The parcels on this shapefile were verified with a ground survey. The City of Arcata continues to actively consider and plan for the redevelopment of these sites (Oetker 2009, personal communication). The city is currently focusing on the area on Samoa Boulevard to the west of G Street. This location features numerous brownfield parcels and has good mixed-use development potential.

All the sites on the CERCLIS listing for Humboldt County are either considered “assessment complete,” “no further remedial action planned,” or “state led cleanups.” The status of sites on the CERCLIS list can be determined from the data table of the CERCLIS sites shapefile using the “NON_NPL_ST” column in the data table. Several of the sites on the EPA list are located in the Hoopa Valley Indian Reservation. This is because the EPA has initial jurisdiction on tribal lands; the EPA then makes a referral to the appropriate state agency. Some of the sites that appear on the EPA listing have redevelopment potential, including sites in Hoopa, Eureka, and Glendale. The non-Indian trust lands would require significant cleanup, overseen by the state regulatory authorities, to meet state cleanup standards. The list includes the parcels known locally as the Balloon Track, for which a redevelopment project has been proposed. The

developer is currently seeking approval for the project from the California Coastal Commission and is working with the Regional Board as the state cleanup agency.

Of the 14 Department of Toxic Substances Control (DTSC) sites, two are currently undergoing DTSC supervised cleanups. The rest of the sites on the list have either been referred to the Regional Water Quality Control Board, are undergoing long term monitoring, or have been closed. The two open DTSC cleanup sites are interesting brownfields with redevelopment potential. Eel River Sawmills Mill A is just north of the City of Rio Dell. The current owner is working his way through the cleanup process and is in discussions with the city of Rio Dell to relocate the city's wastewater treatment plant to a portion of the site. The other open DTSC site is the Centerville Beach Naval Station. Overlooking Centerville Beach, the site is contaminated with polychlorinated biphenyls, polynuclear aromatic hydrocarbons, and trichloroethylene. The Naval Station was closed in 1994 and it is unclear what the eventual use of the site will be. The property is still owned by the federal government.

The North Coast Regional Water Quality Control Board, or Regional Board, is responsible for the oversight of most sites in Humboldt County. This data set presented a research problem because it included both open and closed sites. The closed sites have been determined to not present a danger to water quality. However, they still may be contaminated and are likely to be brownfields, though there is the possibility that they are not brownfields. The use of closed sites in the brownfield GIS injects uncertainty into the model, while at the same time broadening its scope. The only way to eliminate this

uncertainty is to perform ground surveys and ultimately environmental site assessments on each parcel.

Of the 216 open Regional Board cases, 107 are Humboldt County Local Oversight Program leaking underground storage tank cases. Many of these cases are operating gas stations or businesses; however, it is quite possible that the contamination on these parcels could complicate future use. The other 109 open sites are overseen by the Regional Board. Of the Regional Board sites, five are military cleanup sites, three are military underground storage tank sites, 32 are land disposal sites, and 67 are cleanup program sites. The land disposal sites are the regional dumps that were once sprinkled around Humboldt County. The cleanup sites are contaminated primarily with petroleum products but also include sites contaminated with metals and various organic compounds. The military cleanup sites are similar to the other sites except for the fact that they are owned by the federal government and some sites may be contaminated with unexploded ordinance. Military sites are problematic from a redevelopment perspective because of the cumbersome process involved in transferring ownership of a federally owned property.

The shapefile created from Humboldt Bay Harbor and Recreation District data is a testament to the industrial past of Humboldt Bay. The presence of brownfield properties will be most obvious to new arrivals to Humboldt County in the areas around Humboldt Bay. The brownfield sites that ring the bay are some of the largest sites in the county and are also some of the most problematic from a redevelopment perspective. The sites are found primarily in the City of Eureka and the unincorporated communities

of Samoa, Fairhaven, and Fields Landing. All of these sites are located in the coastal zone and as such are subject to the permit authority of the California Coastal Commission. A coastal zone plan amendment is difficult to achieve; many of the harbor district sites have a zoning designation of “coastal dependant industrial” which may limit new uses. Further complicating the redevelopment of these sites is the tsunami inundation zone. This combination of factors will often limit the reuse potential of these sites more than the real or perceived contamination on the sites themselves.

The sites identified in the Humboldt County redevelopment areas represent site characterization made by a combination of environmental contamination data, non-environmental data, and visual site assessment by ground survey. Some of the sites identified in the redevelopment areas have documented contamination, while others don't. Table 3 lists the hectares of brownfield property identified by the GIS brownfield model in the redevelopment areas. Table 3 includes a column showing hectares identified by environmental and non-environmental data sources, and shows the hectares identified by the field survey of the redevelopment areas. The parcels identified in the “all sources” column include the sites identified by the GIS model and by ground surveys. Table 3 shows that the environmental and non-environmental data sources incorporated into the GIS brownfield model were able to identify on average 82.6 percent of the sites in the redevelopment areas, while the ground survey captured an average of 93 percent of the total sites over all the areas. The variation in capture rates is explained by the following factors: perceived contamination during the ground survey, the lack of access due to locked gates or posted “no trespassing” signs, and the presence of vacant industrial land

in the GIS model that appeared to be vacant undeveloped land during the ground survey.

The GIS brownfield model provides an excellent support tool for brownfield ground surveys; the results of these surveys can be easily included in the model to increase its accuracy in the area surveyed.

CONCLUSION

This study implemented an effective procedure to create a GIS-based inventory of brownfields for a county in California. The key benefit of the research was to create a parcel-based GIS model of brownfield sites. The model made predictions about which parcels are brownfield sites. Ground surveys were used to check the effectiveness of the model at identifying sites. The study found that the model was effective at predicting the location of brownfield sites. Ground surveys make a crucial contribution to the creation of an accurate brownfield inventory but they are costly and time consuming to conduct. The brownfield GIS model allows practitioners to focus ground survey efforts in a cost effective manner that will result in an inventory that will inform desired outcomes.

This brownfield GIS model is a significant tool for land use planning and is being applied to the challenge of site reuse in Humboldt County. The model has been effective in bringing outside resources into the county to encourage brownfield reuse. Initial efforts to apply the model to site reuse indicate that physical site constraints may hamper reuse more than contamination status. A GIS inventory, like the data compiled in the Appendix B of this thesis, allows the users to go beyond answering questions about the presence of brownfields to more complex analyses that inform decisions about the suitability and sustainability of land use decisions.

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APPENDIX A

Assessor's parcel numbers and source data presented in tabular format.

CountyMillSites shapefile: assessor's parcel number and acres.

APN	ACRES	20807118	27.0572	51610108	0.7936
51312104	495.4732	20807132	19.3808	51610179	1.4415
20403302	81.7779	20834124	7.5031	51610183	2.6175
20610131	4.1476	51920216	32.4850	51610168	1.4029
20518101	3.2945	31305112	56.3999	51610164	0.7919
20129211	13.6361	08102138	6.0735	51610184	4.9943
31105208	187.7871	20417103	13.9648	51610117	1.8300
40112108	39.0395	20425101	22.5941	50606110	13.5927
40116201	4.0877	20425110	8.9901	50606109	1.9998
40113104	65.2143	20412106	0.4521	50606106	1.3416
40116125	0.4147	20412105	8.6541	50606107	12.1910
40116126	0.4312	20412104	36.4380	50606128	10.8937
40130110	5.2158	20635104	10.4605	30520105	0.6809
20511116	2.8059	20201123	2.0862	30520104	1.5623
20517108	1.7126	20201131	5.7481	30520103	2.6147
20517112	1.2885	20202117	7.5515	30520117	4.8293
20511112	9.6672	20133102	2.7240	30517115	35.8005
20511128	0.6799	20133105	20.2501	30520116	14.1802
20511130	0.5054	20133104	0.4454	30520102	1.4265
20511129	9.0291	20109226	0.1508	52249116	11.8437
20511115	17.7193	20109227	1.2045	31216116	3.5633
40103143	8.4068	20108207	0.8230	02516103	6.3272
31303302	71.6481	20403402	122.9100	40131101	20.2617
52409106	40.1133	51715507	49.6132	20036306	7.3948
52410111	12.4163	51715508	11.0641	20202105	15.7888
52608124	4.3619	50124133	17.0649	20036307	2.6515
52608125	4.7095	00307204	23.4973	52001213	43.0030
52608126	4.5503	00307207	2.1685	51611163	0.6980
52608127	5.3507	00308202	14.2272	51611162	17.8298
52608128	5.5101	00308205	1.8440	52220101	48.0633
52608129	5.4756	00308204	0.1928	50725121	11.5485
52608130	6.2653	00308207	1.4446	50725112	2.0372
52608131	6.3250	00308216	15.6448	50712136	55.0540
52608132	6.3106	01708101	60.4853	50708128	6.8701
52608133	4.8020	40414104	15.2161	50708138	10.7527
52608134	5.1919	40130109	136.8678	50708138	5.1121
52608122	2.6344	31303107	427.0543	02125102	0.9078
52608123	2.6248	31305111	33.3966	02124102	5.2309
52533109	51.1891	51714214	41.9481	02013701	1.4461
51923106	3.6792	52410113	29.8080	02123407	1.8755

02120111	8.3662
50323213	10.5521
50323204	0.9898
51715406	77.7113
21629110	0.9268
21629111	1.0094
50623110	113.6159
50623111	113.6159
50623108	113.6159
50623109	113.6159
50613115	12.1802
50613116	12.1802

HeavyInd_vacant shapefile: assessor's parcel number and acres.

APN	ACRES	51616103	4.86
50515104	3.80	51610160	0.89
40112204	22.58	51615119	12.06
40112205	2.87	51615116	22.02
40112206	0.57	51615117	3.73
40112207	0.46	51614103	0.52
40112209	4.32	51610141	0.19
40112108	39.04	51610140	9.25
40116201	4.09	51610108	0.79
40117133	0.47	51610168	1.40
40116101	3.80	51610163	1.32
40117112	0.24	51610117	1.83
40117130	0.26	51615104	1.09
40117131	0.66	51615108	5.53
40117111	0.64	51614105	0.38
40116121	0.22	50606109	2.00
40113104	65.21	50608103	0.13
40116122	0.21	50608104	0.15
40117134	0.08	50606107	12.19
40116123	0.21	50607110	0.30
40116125	0.41	30520117	4.83
40116126	0.43	30710108	14.16
40130110	5.22	40131102	3.88
40131104	15.58	22317125	0.85
40128105	1.25	20517108	1.23
40128106	1.22	20511112	10.19
40128101	13.56	20511128	0.58
50403114	0.26	20511130	0.52
20132201	5.32	20511120	1.49
20132217	3.38	20518101	4.16
31117107	0.38		
40111215	5.97		
40103143	8.41		
40103150	2.38		
20412106	0.45		
20408103	1.93		
20611106	0.82		
40103148	11.17		
50124130	3.59		
50124131	5.98		
40112112	42.20		
40111107	30.33		
40103158	22.16		
40130105	10.27		
40103162	3.45		

LightInd_vacant shapefile: assessor's parcel number and acres.

APN	ACRES
50516111	15.95
50726112	5.57
50726104	4.85
51146108	1.28
51146107	0.89
51146106	0.70
51146105	0.86
51146104	0.89
51146103	0.74
51146102	0.70
51146116	5.59
51146111	0.71
51146112	0.76
51146113	1.02
51146114	0.97
51146110	1.62
51146109	4.02
51146115	7.03
07735103	3.58
07735106	0.67
22331124	1.24
22331131	1.12
22331133	1.29
22331132	1.59
22331134	1.44
22331135	1.46
22331136	1.17
22331137	1.22
22331140	4.17
22331117	1.00
22331119	2.40
22331120	1.24
22331118	1.16
22331121	1.41
22331123	1.04
22331129	1.20
22331128	1.31
22331126	1.10
22331127	1.48
22331125	1.04
22331112	1.12
22331122	1.16
22331130	1.12

ArcataSites shapefile: assessor's parcel number and acres.

APN	ACRES
50746138	2.51
50337202	0.25
50337203	0.20
50337204	0.30
50337205	0.31
50337206	1.17
02125102	0.91
02117302	2.19
02120111	8.37
02120105	2.41
02120106	0.04
02120108	2.05
02120109	3.08
02120107	0.47
02120110	3.38
02119102	8.47
02119105	0.23
50325111	2.95
50323216	0.04
50323213	10.55
50323204	0.99
50321113	1.12
50321112	0.87
50321121	1.66
50321123	1.11
50321115	1.01
50321124	3.23
50321126	4.51
50104406	6.30

HarborDistrict_sites shapefile: assessor's parcel number and acres.

APN	ACRES	40111107	30.33
40103140	67.27	40103146	68.55
40111211	15.56	40130105	10.27
40112204	22.58	40102125	21.63
40112208	18.36	30520118	0.80
40113105	26.13	30520105	0.68
40113104	65.21	30520104	1.56
40130108	6.66	30520111	1.87
40125202	15.33	30520110	0.40
40131105	8.20	30520103	2.61
40131104	15.58	30520116	14.18
40114105	31.94	30520102	1.43
40128101	13.56	30710108	14.16
40114103	27.13	30710102	33.02
40115110	12.76	40131101	20.26
40111214	81.20	40131102	3.88
40103116	9.05	00223108	2.62
40103143	8.41	00224107	1.71
30513134	10.75	00112129	0.40
30514103	52.02	00709102	1.44
30514104	58.09	30516212	27.74
40103141	16.93		
40103148	11.17		
00112122	3.07		
00306221	5.05		
00306224	5.73		
00308201	5.29		
00308202	14.23		
00308215	3.89		
00308216	15.64		
00706105	9.34		
00706106	5.17		
00707114	12.65		
01932114	5.37		
00709111	1.94		
01932112	6.63		
01932109	1.59		
01932105	6.21		
01932106	1.21		
01927104	6.10		
01933108	13.54		
01927105	5.82		
40114104	311.91		
40112112	42.20		
40130109	136.87		

CERCLIS_sites shapefile: assessor's parcel number, acres, EPA ID#, site name, city, and non NPL status.

APN	ACRES	EPA_ID	SITE_NAME	CITY	NON_NPL_ST
52706101	518.11	CAD980638225	COPPER BLUFF MINE (BOLIVAR MINE)- HOOPA	HOOPA	AC
52612102	10.25	CAD980638860	CELTOR CHEMICAL WORKS	HOOPA	AC
52612103	13.45	CAD980638860	CELTOR CHEMICAL WORKS	HOOPA	AC
52533109	51.19	CAD039112966	MASONITE MILL MESCAT FIELD SITE	HOOPA	NF
52532101	6.33	CAD039112966	MASONITE MILL MESCAT FIELD SITE	HOOPA	NF
52532102	7.24	CAD039112966	MASONITE MILL MESCAT FIELD SITE	HOOPA	NF
52532103	7.35	CAD039112966	MASONITE MILL MESCAT FIELD SITE	HOOPA	NF
40508156	85.16	CAD982401549	CUMMINGS ROAD SANITARY LANDFILL	EUREKA	OS
00112117	0.60	CAD983646068	G & R METALS	EUREKA	OS
00302109	3.76	CAD983644898	SOUTHERN PACIFIC COMPANY	EUREKA	OS
00303106	7.88	CAD983644897	SOUTHERN PACIFIC COMPANY	EUREKA	OS
00304107	18.37	CAD983644896	SOUTHERN PACIFIC COMPANY	EUREKA	OS
51615104	1.09	CAN000905663	MCNORD LUMBER COMPANY	ARCATA	NF
51615103	2.22	CAN000905664	MCNORD LUMBER COMPANY	ARCATA	NF

DTSC_sites shapefile: assessor's parcel number, acres, EnviroStor ID#, site name, type, and status.

APN	ACRES	ENVIROSTOR	SITE__FAC	SITE__F_1	CLEANUP_ST
10110103	32.86	12360000	CENTERVILLE BEACH		
01703101	40.55	12070002	NAVAL FACILITY	STATE RESPONSE	ACTIVE
52612102	10.25	12280001	REDWOOD ACRES	VOLUNTARY CLEANUP	REFER: RWQCB
52608248	4.34	12240038	CELTOR CHEMICAL	FEDERAL SUPERFUND	
			WORKS	- DELISTED	CERTIFIED
			HOOPA VENEER	STATE RESPONSE	CERTIFIED
			EUREKA		
00125331	0.33	60000101	EDUCATIONAL		
			RESOURCE CENTER	SCHOOL CLEANUP	CERTIFIED
00307204	23.50	12240068	SCHMIDBAUER		
00308208	1.46	12490001	LUMBER INC	VOLUNTARY CLEANUP	REFER: RWQCB
			PG&E EUREKA 1	STATE RESPONSE	REFER: RWQCB
			MOUNT PIERCE		
21101104	49.85	80000558	RADIO RELAY ANNEX		INACTIVE - ACTION
			(J09CA0878)	STATE RESPONSE	REQUIRED
					CERTIFIED / OPERATION &
51610108	0.79	12240115	MCNAMARA AND		MAINTENANCE - LAND USE
			PEEPE LUMBER MILL	STATE RESPONSE	RESTRICTIONS
			PACIFIC GAS &		
			ELECTRIC/		
30513135	67.01	80001831	HUMBOLDT BAY		
			POWER PLANT	VOLUNTARY CLEANUP	ACTIVE
50623110	30.17	12240118	SIMPSON REDWOOD		CERTIFIED / OPERATION &
			CO.	VOLUNTARY CLEANUP	MAINTENANCE
51135109	415.48	71000036	HUMBOLDT COUNTY		
20511129	9.71	12240120	AIRPORT	STATE RESPONSE	REFER: RWQCB
			MOZZETTI LANDFILL	VOLUNTARY CLEANUP	NO ACTION REQUIRED
			EEL RIVER		
20511115	20.14	12240119	SAWMILLS, MILL A	STATE RESPONSE	ACTIVE

RWQCB_sites shapefile: assessor's parcel number, acres, business name, case type, status, lead agency, and case number.

APN	ACRES	BUSINESS_NAME	CASE_TYPE	STATUS	LEAD_AGENCY	RB_CASE_#
10606102	12.35	Centerville Beach NF (C/R Only) - Centerville Beac	Military Cleanup Si	Open - Inactive	NORTH COAST RWQCB (REGION 1)	1DODTHU291 -- 2
10104102	27.49	Centerville Beach NF (C/R Only) - USN CENTERVILLE	Military UST Site	Open - Remediation	NORTH COAST RWQCB (REGION 1)	1DODTHU291
10023110	6.77	MARY GOMES TRUST	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP NORTH COAST	1THU685
10015102	20.86	HCDPW FERNDAL MAINTENANCE STATION	LUST Cleanup Site	Completed - Case Closed	RWQCB (REGION 1)	1THU159
20707508	557.51	CDF BRIDGEVILLE	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU486
20725112	4.48	BRIDGEVILLE SCHOOL	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP NORTH COAST	1THU473
20720122	19.50	BRUNER PROPERTY	Cleanup Program Sit	Completed - Case Closed	RWQCB (REGION 1)	1NHU801
20720121	28.54	BRIDGEVILLE GENERAL STORE	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP NORTH COAST	1THU205
20725105	0.28	HCDPW BRIDGEVILLE MAINTENANCE STATION	LUST Cleanup Site	Completed - Case Closed	RWQCB (REGION 1)	1THU087
52234212	0.98	BP MINI MART / WILLOW CREEK	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU485
52234207	0.63	CHEVRON #9-5293	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU276
52234101	0.52	BIGFOOT GASMART	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP NORTH COAST	1THU153
52924103	56.97	HUMBOLDT CO ORLEANS SWDS	Land Disposal Site	Open	RWQCB (REGION 1)	1B900090NHU

52923113	129.10	CDOT ORLEANS MAINTENANCE STATION	Cleanup Program Sit	Completed - Case Closed	NORTH COAST RWQCB (REGION 1)	1NHU891
52910116	1.45	McLAUGHLIN & SONS 76	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU718
52908403	147.33	CDOT ORLEANS	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU524
20510104	94.67	RENNER RANCHES, INC.	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP NORTH COAST	1THU098
20007120	9.33	SMITH, ROBERT	LUST Cleanup Site	Completed - Case Closed	RWQCB (REGION 1) NORTH COAST	1THU390
20121203	3.51	GARRISON CLASS III DISPOSAL SITE	Land Disposal Site	Open - Site Assessment	RWQCB (REGION 1) NORTH COAST	1LDHU848
20129211	13.64	EEL RIVER SAWMILLS	Cleanup Program Sit	Open - Inactive	RWQCB (REGION 1) NORTH COAST	1NHU837
20324106	6.87	HUMBOLDT CO ROHNERVILLE STATIO	Land Disposal Site	Open	RWQCB (REGION 1) NORTH COAST	1B93010RHUM
20132211	3.69	REYNOLDS RV REPAIR	Cleanup Program Sit	Open - Inactive	RWQCB (REGION 1)	1NHU974
03109206	0.14	LINOS SERVICE	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP	1THU675
03109121	0.06	BANK OF AMERICA	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU647
03109116	0.04	CITIZEN'S MORTUARY	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU245
03114301	0.36	TIPPLE MOTORS, JACK	LUST Cleanup Site	Open - Verification Monitoring	HUMBOLDT COUNTY LOP	1THU052
03114302	0.13	ALDERSON, JACK	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU468
03113102	0.23	FERNDAL MUSEUM	LUST Cleanup Site	Open - Site	NORTH COAST	1THU049

				Assessment	RWQCB (REGION 1)	
03104308	0.30	CRANE RESIDENCE	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP NORTH COAST RWQCB	1THU545
03105117	1.64	HUMBOLDT CO FERNDAL BURN DUMP	Land Disposal Site	Open	(REGION 1)	1B880780NHU
03104309	2.58	FERNDAL PUBLIC WORKS DEPARTMENT	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU306
03120103	0.21	BROWNLOW ESTATE	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP	1THU778
03020212	0.14	OLESEN RESIDENCE	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU711
03017201	0.22	LORENZO'S GAS & GROCERY	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP	1THU079
03011104	1.20	BAR ALE OF HUMBOLDT	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP	1THU755
03016117	0.48	MCBRIDE ESTATE	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU643
				Open - Assessment & Interim		
30826140	2.60	HCDPW LOLETA MAINTENANCE STATION	LUST Cleanup Site	Remedial Act	NORTH COAST RWQCB (REGION 1) NORTH COAST RWQCB	1THU124
30919112	55.55	NIELSEN DAIRY	Cleanup Program Sit	Open - Inactive	(REGION 1)	1NHU626
31117125	4.01	LOUISIANA PACIFIC / SALMON CR	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP NORTH COAST RWQCB	1THU558
40509103	434.04	CUMMINGS ROAD -SWDS	Land Disposal Site	Open	(REGION 1)	1B79133OHUM
50738106	5.90	DUTRA TRUCKING	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU264
50738105	0.67	ARCATA READIMIX	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU328
50516111	15.95	EEL RIVER SAWMILL,	LUST Cleanup Site	Completed -	HUMBOLDT	1THU518

		SPECIALTY		Case Closed	COUNTY LOP NORTH COAST RWQCB	
50613109	1.68	COOK, JESSE & LINDA	Cleanup Program Sit	Open - Inactive	(REGION 1)	1NHU319
50112121	5.03	BALL RESIDENCE	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU679
50112115	2.38	KASWEN RESIDENCE	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU668
50118104	1.96	CDOT BRACUT	LUST Cleanup Site	Completed - Case Closed	NORTH COAST RWQCB (REGION 1)	1THU160
50118106	3.09	CDOT BRACUT	Cleanup Program Sit	Completed - Case Closed	NORTH COAST RWQCB (REGION 1)	1NHU160
50203110	3.07	MCLEAN, DORIS	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU154
50002116	4.15	BARBER PROPERTY	Cleanup Program Sit	Completed - Case Closed	NORTH COAST RWQCB (REGION 1)	1NHU383
50008102	43.68	WAYMAN, DALE	Cleanup Program Sit	Completed - Case Closed	NORTH COAST RWQCB (REGION 1)	1NHU454
50005115	1.02	Wilson Residence	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU914
50726112	5.57	NORTH COAST REDWOOD & MILLING	Cleanup Program Sit	Completed - Case Closed	NORTH COAST RWQCB (REGION 1)	1NHU613
40116103	0.43	LOUISIANA PACIFIC CHIP EXPORT	Cleanup Program Sit	Open - Inactive	NORTH COAST RWQCB (REGION 1)	1NHU871
51218140	8.02	GOTT LOGGING, INCORPORATED	LUST Cleanup Site	Completed - Case Closed	NORTH COAST RWQCB (REGION 1)	1THU102
50418118	8.63	KADLE CONSTRUCTION	Cleanup Program Sit	Open - Inactive	NORTH COAST RWQCB (REGION 1)	1NHU605

50412312	0.96	M&M CLUB (OLD)	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU713
50632109	1.76	HOMEM, JOSE L.	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU361
01419104	0.23	FARM FRESH DAIRY PRODUCTS	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP	1THU732
01431117	0.28	BP MYRTLE AVE / BIG OIL & TIRE	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU549
01502401	0.55	CASH OIL COMPANY (MYRTLE)	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU654
01604129	0.12	KRAMER, KURT	LUST Cleanup Site	Completed - Case Closed	NORTH COAST RWQCB	
01603102	0.64	JURKOVICH, ELI	LUST Cleanup Site	Completed - Case Closed	(REGION 1) HUMBOLDT COUNTY LOP	1THU161
01601211	0.16	KADLE, ESTHER	Cleanup Program Sit	Completed - Case Closed	NORTH COAST RWQCB	1THU166
01609304	0.33	HAYES ESTATE	LUST Cleanup Site	Open - Verification Monitoring	(REGION 1) HUMBOLDT COUNTY LOP	1NHU324
40225138	0.95	BURDEN, ROBERT	LUST Cleanup Site	Completed - Case Closed	NORTH COAST RWQCB	
01622218	0.61	HUMBOLDT FIRE DISTRICT HEADQUARTERS	LUST Cleanup Site	Open - Verification Monitoring	(REGION 1) HUMBOLDT COUNTY LOP	1THU031
01703101	40.55	REDWOOD ACRES FAIRGROUND	LUST Cleanup Site	Completed - Case Closed	NORTH COAST RWQCB	
01908501	0.25	BONOMINI'S MARKET	LUST Cleanup Site	Open - Site Assessment	(REGION 1) HUMBOLDT COUNTY LOP	1THU072
01808240	0.45	ACE ADAMS & SON PRINTING	LUST Cleanup Site	Completed - Case Closed	NORTH COAST RWQCB	
30207148	0.16	HUMBOLDT FIRE DISTRICT	LUST Cleanup Site	Completed -	(REGION 1) HUMBOLDT	1THU368 1THU334

		BAYVIEW		Case Closed	COUNTY LOP	
30115104	0.26	FAIRWAY MARKET	LUST Cleanup Site	Open - Site Assessment Completed -	HUMBOLDT COUNTY LOP	1THU744
30116212	0.16	PETERSEN, DARREL NORTHCOAST ENVIRONMENTAL CONSTRUCTION	LUST Cleanup Site	Case Closed	HUMBOLDT COUNTY LOP	1THU202
30510102	0.96		LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU734
30510103	3.64	PACIFIC BELL TE-618	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU411
30510138	0.85	EXXON, SOUTH BAY	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU311
30605306	0.14	WESTBROOK EXPORT COMPANY	Cleanup Program Sit	Open - Inactive	NORTH COAST RWQCB (REGION 1)	1NHU877
30602601	0.13	MILLER'S MARKET & GRILL	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU084
30608119	0.26	EICH ESTATE	LUST Cleanup Site	Completed - Case Closed	NORTH COAST RWQCB (REGION 1)	1THU894
30509103	2.76	JOHNNY'S MARINA	Cleanup Program Sit	Completed - Case Closed	NORTH COAST RWQCB (REGION 1)	1NHU362
20324109	167.35	CHEVRON #8-4102	LUST Cleanup Site	Completed - Case Closed	NORTH COAST RWQCB (REGION 1)	1THU059
01615105	2.66	PG&E EUREKA SERVICE CENTER	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU020
40111213	22.34	LOUISIANA PACIFIC / SAMOA PULP MILL CHIP	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU745
40111214	81.20	EVERGREEN PULP INCORPORATED	Cleanup Program Sit	Open - Inactive	NORTH COAST RWQCB (REGION 1)	1NHU892
50110126	2.93	USCG HUMBOLDT BAY STATION	LUST Cleanup Site	Completed - Case Closed	NORTH COAST RWQCB (REGION 1)	1THU151

31411305	83.32	HUMBOLDT COUNTY - KNEELAND BURN DUMP	Land Disposal Site	Open - Site Assessment	NORTH COAST RWQCB (REGION 1)	1LDHU820
31415604	159.28	KIEM - TV KNEELAND	Cleanup Program Sit	Completed -	NORTH COAST RWQCB (REGION 1)	1NHU604
31420305	165.45	CDF KNEELAND HELITACK BASE	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU664
31501215	39.02	HUMBOLDT COUNTY - MAPLE CREEK BURN DUMP	Land Disposal Site	Open - Site Assessment	NORTH COAST RWQCB (REGION 1)	1LDHU823
31309110	39.13	CDFG MAD RIVER HATCHERY	LUST Cleanup Site	Completed - Case Closed	NORTH COAST RWQCB (REGION 1)	1THU608
31414608	92.24	MOORE, EMERY	Cleanup Program Sit	Open - Inactive	NORTH COAST RWQCB (REGION 1)	1NHU854
31205146	47.23	PEFFLEY, JEANNE	Cleanup Program Sit	Completed - Case Closed	NORTH COAST RWQCB (REGION 1)	1NHU465
53001101	597.30	HOOPA, TWO SITES	Cleanup Program Sit	Open - Inactive	NORTH COAST RWQCB (REGION 1)	1NHU838
52606256	0.32	UNOCAL BULK PLANT #0289	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU109
51534131	4.63	PACIFIC BELL TE-034	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU391
51711101	380.05	CDPR PATRICKS POINT STATE PARK	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP	1THU002
51712110	10.40	BIG LAGOON SCHOOL	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU277
51724103	0.63	CAPACCIO RESIDENCE	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU919
51707102	0.90	DRIFTWOOD MOTEL	Cleanup Program Sit	Completed - Case Closed	NORTH COAST RWQCB (REGION 1)	1NHU428

51708115	2.65	GILLETTE, VIOLET	Cleanup Program Sit	Completed -	NORTH COAST	
		CDPR STONE LAGOON		Case Closed	RWQCB	
51807501	19.46	VISITOR CENTER	LUST Cleanup Site	Completed -	(REGION 1)	1NHU401
				Case Closed	HUMBOLDT	
53208206	559.07	REDWOOD NATIONAL	LUST Cleanup Site	Completed -	COUNTY LOP	1THU775
		PARK / WOLF CK		Case Closed	NORTH COAST	
53010102	133.48	BLUFF CREEK RESORT	LUST Cleanup Site	Completed -	RWQCB	
		K-T JUSD TRINITY VALLEY		Case Closed	(REGION 1)	1THU521
53307321	10.36	ELEMENTARY SCHOOL	LUST Cleanup Site	Completed -	HUMBOLDT	
				Case Closed	COUNTY LOP	1THU432
51913103	542.56	CDPR PRAIRIE CREEK	LUST Cleanup Site	Completed -	HUMBOLDT	
				Case Closed	COUNTY LOP	1THU788
51922103	622.62	CDF ELK CAMP	LUST Cleanup Site	Completed -	HUMBOLDT	
				Case Closed	COUNTY LOP	1THU683
51923106	3.68	BERRY GLEN	LUST Cleanup Site	Completed -	HUMBOLDT	
		REDWOOD NATIONAL		Case Closed	COUNTY LOP	1THU207
51934110	1.26	PARK / B MILL	LUST Cleanup Site	Completed -	NORTH COAST	
				Case Closed	RWQCB	
51934106	1.48	BERRY GLEN	Cleanup Program Sit	Completed -	(REGION 1)	1THU617
		JACK NORTON		Case Closed	HUMBOLDT	
53307406	5.02	ELEMENTARY SCHOOL	LUST Cleanup Site	Completed -	COUNTY LOP	1THU538
		K-T JUSD HOOPA HIGH		Case Closed	NORTH COAST	
53005310	722.29	SCHOOL	LUST Cleanup Site	Completed -	RWQCB	
		HUMBOLDT COUNTY -		Case Closed	(REGION 1)	1NHU617
52110107	1.41	REDWOOD VALLEY BURN	Land Disposal Site	Open - Site	HUMBOLDT	
		DU		Assessment	COUNTY LOP	1THU413
31611302	397.80	JOHN JURIN RANCH	LUST Cleanup Site	Completed -	HUMBOLDT	
				Case Closed	COUNTY LOP	1THU026
52409102	79.30	SOUTH FORK MILL	LUST Cleanup Site	Completed -	NORTH COAST	
				Case Closed	RWQCB	
21813104	34.42	HEARTWOOD INSTITUTE	LUST Cleanup Site	Completed -	(REGION 1)	1LDHU827
				Case Closed	HUMBOLDT	
				Completed -	COUNTY LOP	1THU687
					HUMBOLDT	
					COUNTY LOP	1THU714
					HUMBOLDT	1THU924

03327117	2.27	BP, WOODSMEN	LUST Cleanup Site	Case Closed Completed - Case Closed	COUNTY LOP HUMBOLDT COUNTY LOP	1THU665
03326104	146.35	HARTSOOK INN	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP	1THU920
03209101	0.14	SHUSD DISTRICT OFFICE	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU490
22019101	37.89	HUMBOLDT COUNTY - THORN BURN DUMP	Land Disposal Site	Open - Site Assessment	COUNTY LOP NORTH COAST RWQCB (REGION 1)	1LDHU830
10404205	101.88	Centerville Beach NF (C/R Only) - USN CENTERVILLE	Military UST Site	Completed - Case Closed	NORTH COAST RWQCB (REGION 1)	1THU883
10710213	36.36	HONEYDEW COUNTRY STORE	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP	1THU725
22028205	38.77	GRANAT DIESEL SPILL	LUST Cleanup Site	Open	NORTH COAST RWQCB (REGION 1)	1NHU672
22028216	58.66	GRANAT DIESEL SPILL	Cleanup Program Sit	Completed - Case Closed	NORTH COAST RWQCB (REGION 1)	1NHU762
21217184	12.57	SHUSD TRANSPORTATION DEPARTMENT	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU491
21217166	0.25	MOBIL, MIRANDA	LUST Cleanup Site	Completed - Case Closed	NORTH COAST RWQCB (REGION 1)	1THU168
21215108	2.45	MIRANDA RENTALS	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP	1THU326
21223102	4.50	FIR HAVEN SHELL (FORMER)	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP	1THU748
21218116	23.60	TORDJMAN PROPERTY	Cleanup Program Sit	Open - Site Assessment	NORTH COAST RWQCB (REGION 1)	1NHU935
22216102	175.04	CDF EEL RIVER	LUST Cleanup Site	Open - Remediation	HUMBOLDT COUNTY LOP	1THU684
21617603	227.11	MIRANDA JUNIOR HIGH	LUST Cleanup Site	Completed -	HUMBOLDT	1THU501

21633112	5.49	SHELL, FT. SEWARD	LUST Cleanup Site	Case Closed	COUNTY LOP	
		CDF ALDERPOINT FIRE		Completed -	HUMBOLDT	
21621406	101.12	STATION	LUST Cleanup Site	Case Closed	COUNTY LOP	1THU271
				Completed -	HUMBOLDT	
21622506	160.77	LUCAS HALL	LUST Cleanup Site	Open - Site	COUNTY LOP	1THU426
				Assessment	HUMBOLDT	
		HUMBOLDT COUNTY -			COUNTY LOP	1THU929
21624503	386.90	ALDERPOINT BURN DUMP	Land Disposal Site	Open - Site	NORTH COAST	
				Assessment	RWQCB	
					(REGION 1)	1LDHU811
		HUMBOLDT CO			NORTH COAST	
21733108	145.65	GARBERVILLE BURN D	Land Disposal Site	Open	RWQCB	
					(REGION 1)	1B880760NHU
		HUMBOLDT COUNTY -			NORTH COAST	
21705101	627.74	BLOCKBURG BURN DUMP	Land Disposal Site	Open - Site	RWQCB	
				Assessment	(REGION 1)	1LDHU813
					NORTH COAST	
21729112	1.36	BENBOW, JOHN	Cleanup Program Sit	Open - Inactive	RWQCB	
					(REGION 1)	1NHU760
					NORTH COAST	
21729111	75.53	OLIVER DIESEL SPILL	Cleanup Program Sit	Completed -	RWQCB	
				Case Closed	(REGION 1)	1NHU773
08112113	5.48	MYERS FLAT GAS	LUST Cleanup Site	Completed -	HUMBOLDT	
				Case Closed	COUNTY LOP	1THU728
					NORTH COAST	
21138602	179.80	GEORGIA PACIFIC	Cleanup Program Sit	Open - Inactive	RWQCB	
					(REGION 1)	1NHU810
					NORTH COAST	
21160201	0.56	HCDPW ELK CREEK	LUST Cleanup Site	Open - Site	RWQCB	
		MAINTENANCE STATION		Assessment	(REGION 1)	1THU100
					NORTH COAST	
21133131	5.70	HUMBOLDT COUNTY	Land Disposal Site	Open - Site	RWQCB	
		FRUITLAND BURN DUMP		Assessment	(REGION 1)	1LDHU817
					NORTH COAST	
10722605	693.07	EEL RIVER SAWMILLS	Cleanup Program Sit	Open - Inactive	RWQCB	
		BULL CREEK SITE			(REGION 1)	1NHU865

10707405	148.69	HUMBOLDT COUNTY - PETROLIA BURN DUMP	Land Disposal Site	Open - Site Assessment Completed - Case Closed	NORTH COAST RWQCB (REGION 1) HUMBOLDT COUNTY LOP NORTH COAST RWQCB (REGION 1) NORTH COAST RWQCB (REGION 1)	1LDHU826
10424206	37.27	CDF MATTOLE Mount Pierce Radio Relay Annex - US MOUNT PIERCE R	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP NORTH COAST RWQCB (REGION 1)	1THU682
10504402	39.29		Military Cleanup Si	Open - Inactive	NORTH COAST RWQCB (REGION 1)	1NHU842
10519312	0.42	JEFFRY RANCH PETROLIA GENERAL STORE	Cleanup Program Sit	Completed - Case Closed	NORTH COAST RWQCB (REGION 1)	1NHU539
10519118	0.41		LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP NORTH COAST RWQCB (REGION 1)	1THU407
10221110	104.98	US CAPETOWN GAP FILLER FACIL. CAPETOWN GAP FILLER ANX - US CAPETOWN GAP FILLER	LUST Cleanup Site	Completed - Case Closed	NORTH COAST RWQCB (REGION 1)	1THU534
10221109	333.02	CITIZENS COMMUNICATION BUNKER HILL MICRO	Military Cleanup Si	Open - Inactive	NORTH COAST RWQCB (REGION 1)	1NHU969
10212103	40.46		LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP NORTH COAST RWQCB (REGION 1)	1THU746
20539109	9.81	PACIFIC BELL TE-031	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP NORTH COAST RWQCB (REGION 1)	1THU380
20914122	0.75	HUMBOLDT COUNTY - SHIVELY BURN DUMP	Land Disposal Site	Open - Site Assessment	NORTH COAST RWQCB (REGION 1)	1LDHU829
20935108	54.46	EEL RIVER SAWMILLS	Cleanup Program Sit	Open - Inactive	NORTH COAST RWQCB (REGION 1)	1NHU847
20934229	0.74	REDCREST GROCERY	LUST Cleanup Site	Open - Remediation Completed - Case Closed	HUMBOLDT COUNTY LOP HUMBOLDT COUNTY LOP	1THU681
20936109	679.30	PACIFIC BELL TE-036	LUST Cleanup Site	Open - Site	NORTH COAST	1THU392
20626204	636.86	HUMBOLDT COUNTY -	Land Disposal Site			1LDHU832

		CARLOTTA BURN DUMP		Assessment	RWQCB (REGION 1) NORTH COAST	
21003101	294.76	HUMBOLDT COUNTY - CASTERLAND BURN DUMP	Land Disposal Site	Open - Site Assessment	RWQCB (REGION 1) NORTH COAST	1LDHU815
20817103	31.18	UNITED STATES FOREST SERVICE - DINSMORE	Cleanup Program Sit	Open - Inactive	RWQCB (REGION 1) NORTH COAST	1NHU839
20818103	57.35	HUMBOLDT COUNTY - MAD RIVER BURN DUMP	Land Disposal Site	Open - Site Assessment	RWQCB (REGION 1) NORTH COAST	1LDHU822
21014208	127.48	HUMBOLDT COUNTY - BRIDGEVILLE BURN DUMP	Land Disposal Site	Open - Site Assessment	RWQCB (REGION 1) NORTH COAST	1LDHU814
30513137	0.83	PG&E HUMBOLDT BAY POWER PLANT1	Land Disposal Site	Open	RWQCB (REGION 1)	1B85019RHUM
22209106	325.39	ALICE JEWETT ELEMENTARY SCHOOL	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP NORTH COAST	1THU477
51920216	32.49	SIMPSON/TUTOR-SALIBA	LUST Cleanup Site	Completed - Case Closed Open -	RWQCB (REGION 1)	1THU376
01804244	0.20	HUMBOLDT PETROLEUM SIMPSON SAMOA WOOD	LUST Cleanup Site	Verification Monitoring	HUMBOLDT COUNTY LOP	1THU640
40103156	7.31	MILL	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP NORTH COAST	1THU719
05212102	1.16	HUMBOLDT PACIFIC TRANSPORT	Cleanup Program Sit	Open - Inactive	RWQCB (REGION 1) NORTH COAST	1NHU421
05326101	13.78	EEL RIVER MOZZETTI WOODWASTE DISPOSAL SI	Land Disposal Site	Open - Site Assessment	RWQCB (REGION 1)	1LDHU836
05301126	1.69	RIO DELL CITY, WWTP	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU689
05311509	0.15	SAUERS, MARJY LYALL	LUST Cleanup Site	Completed -	HUMBOLDT	1THU357

05314120	0.34	BP MINI MART / RIO DELL	LUST Cleanup Site	Case Closed	COUNTY LOP	
				Open - Site	HUMBOLDT	
				Assessment	COUNTY LOP	1THU118
20419106	41.88	PACIFIC LUMBER	LUST Cleanup Site	Completed -	HUMBOLDT	
		COMPANY/YAGER		Case Closed	COUNTY LOP	1THU197
					NORTH COAST	
		PACIFIC LUMPER YAGER			RWQCB	
20425108	70.41	CAMP	Cleanup Program Sit	Open - Inactive	(REGION 1)	1NHU197
		PACIFIC LUMBER CO.		Completed -	HUMBOLDT	
20412104	36.44	/CARLOTTA	LUST Cleanup Site	Case Closed	COUNTY LOP	1THU332
				Open - Site	HUMBOLDT	
20629116	0.23	JUDYS MARKET	LUST Cleanup Site	Assessment	COUNTY LOP	1THU436
				Open - Site	HUMBOLDT	
20329158	0.09	REVELES LIVING TRUST	LUST Cleanup Site	Assessment	COUNTY LOP	1THU224
				Open -	HUMBOLDT	
20212150	13.04	HUMBOLDT PETROLEUM	LUST Cleanup Site	Remediation	COUNTY LOP	1THU551
		PALCO FORTUNA MILL		Completed -	HUMBOLDT	
20133105	20.25	BUNKER TANK	LUST Cleanup Site	Case Closed	COUNTY LOP	1THU673
		CASH OIL COMPANY		Open - Site	HUMBOLDT	
20112314	0.16	(FORTUNA)	LUST Cleanup Site	Assessment	COUNTY LOP	1THU652
		TOTEM POLE MARKET		Open - Site	HUMBOLDT	
20108329	0.22	(FORMER)	LUST Cleanup Site	Assessment	COUNTY LOP	1THU028
					NORTH COAST	
				Completed -	RWQCB	
20331108	0.13	JOHNSON, HAROLD	LUST Cleanup Site	Case Closed	(REGION 1)	1THU235
					NORTH COAST	
		FORTUNA JUNIOR		Completed -	RWQCB	
20305113	1.81	ACADEMY	LUST Cleanup Site	Case Closed	(REGION 1)	1THU257
		FORTUNA METHODIST		Completed -	HUMBOLDT	
04008208	0.49	CHURCH	LUST Cleanup Site	Case Closed	COUNTY LOP	1THU781
					NORTH COAST	
				Completed -	RWQCB	
04006606	0.13	GRUNERT'S	LUST Cleanup Site	Case Closed	(REGION 1)	1THU136
		DON'S TRANSMISSION		Completed -	HUMBOLDT	
04017201	0.24	WORKS	LUST Cleanup Site	Case Closed	COUNTY LOP	1THU198
04025304	0.22	PETES SERVICE	LUST Cleanup Site	Open - Site	HUMBOLDT	1THU517

04025201	0.16	UNOCAL #5630	LUST Cleanup Site	Assessment Completed -	COUNTY LOP	
		PATTON CHEVROLET		Case Closed	HUMBOLDT	1THU449
20110103	0.93	OLDS PONTIAC	LUST Cleanup Site	Completed -	COUNTY LOP	
				Case Closed	HUMBOLDT	1THU080
					COUNTY LOP	
					NORTH COAST	
04018607	0.66	IMPERIALE, RANDY	LUST Cleanup Site	Open -	RWQCB	
				Remediation	(REGION 1)	1THU116
04018418	0.53	CHEVRON #9-5121	LUST Cleanup Site	Open - Site	HUMBOLDT	
				Assessment	COUNTY LOP	1THU156
04018415	0.14	HUMBOLDT PETROLEUM	LUST Cleanup Site	Open -	HUMBOLDT	
				Remediation	COUNTY LOP	1THU672
				Open -		
				Assessment &	NORTH COAST	
				Interim	RWQCB	
04013110	1.67	UNOCAL BULK PLANT	Cleanup Program Sit	Remedial Act	(REGION 1)	1NHU248
		FORMOST CREAMERY		Completed -	HUMBOLDT	
20110135	1.99	(OLD)	LUST Cleanup Site	Case Closed	COUNTY LOP	1THU114
				Open -		
				Verification	HUMBOLDT	
02508213	0.23	JACKSONS GARAGE	LUST Cleanup Site	Monitoring	COUNTY LOP	1THU014
				Open -		
				Verification	HUMBOLDT	
02507403	0.36	BLUE LAKE BELTING AND	LUST Cleanup Site	Monitoring	COUNTY LOP	1THU012
		LEATHER WORKS			NORTH COAST	
					RWQCB	
				Open - Site	(REGION 1)	1THU125
02502202	0.34	HCDPW BLUE LAKE	LUST Cleanup Site	Assessment	NORTH COAST	
		MAINTENANCE STATION			RWQCB	
				Open - Site	(REGION 1)	1LDHU177
51129126	40.42	USFS MCKINLEYVILLE	Land Disposal Site	Assessment	NORTH COAST	
					RWQCB	
				Completed -	(REGION 1)	1NHU766
51121125	0.30	WISE DYES	Cleanup Program Sit	Case Closed	NORTH COAST	
					RWQCB	
				Completed -	(REGION 1)	1NHU495
51315132	74.08	HAMMOND, SCOTT &	Cleanup Program Sit	Case Closed		
		JOANIE				

20232117	5.24	EEL RIVER GARBAGE FORTUNA SITE	Land Disposal Site	Open	NORTH COAST RWQCB	1B880770NHU
30910201	0.29	ELLIOTT'S SERVICE CENTER	LUST Cleanup Site	Open - Site Assessment	(REGION 1) HUMBOLDT COUNTY LOP	1THU210
30912101	0.17	ExxonMobile Oil Company Struve Property	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU782
30911605	0.19	JAMES, HOLLIS	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU025
51102159	0.70	BP MINI MART, FREEWAY MCKINLEYVILLE	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU434
50806118	1.75	SHOPPING CENTER	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU412
50824225	0.28	HUMBOLDT PETROLEUM	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP NORTH COAST RWQCB	1THU008
50827318	0.57	PITTMAN, MIKE	LUST Cleanup Site	Completed - Case Closed	(REGION 1) HUMBOLDT COUNTY LOP	1THU366
51013306	0.39	UNOCAL #5313	LUST Cleanup Site	Completed - Case Closed Open - Verification	HUMBOLDT COUNTY LOP	1THU659
51013207	0.48	CENTRAL BP BIG OIL & TIRE -	LUST Cleanup Site	Monitoring Open - Site	HUMBOLDT COUNTY LOP	1THU692
51009123	0.38	MCKINLEYVILLE BP	LUST Cleanup Site	Assessment Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU341
50901135	0.38	HAMMOND, RELLA & PAT	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU369
50903206	1.66	KARSHNER RESIDENCE	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU547
50930139	0.50	RAMEY, GRANT	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP NORTH COAST RWQCB	1THU414
50922144	0.35	MCKINLEYVILLE CSD SUTTER ROAD	LUST Cleanup Site	Completed - Case Closed	(REGION 1) HUMBOLDT COUNTY LOP	1THU223
50905122	0.74	DRAUT RESIDENCE	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU400

51138118	0.77	BIG OIL & TIRE - BIGFOOT SERVICE STATION	LUST Cleanup Site	Open - Verification	HUMBOLDT COUNTY LOP	1THU365
51008124	0.30	VERSTEEG, DOROTHY A. FIELDBROOK GENERAL	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU482
51212143	0.44	STORE	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU686
51034141	1.01	ARCATA FIRE PD MCKINLEYVILLE	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU099
51415501	0.41	TAYBACK RESIDENCE	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP	1THU918
51413112	1.20	HILLTOP MARKET	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU352
03330116	2.31	BENBOW INN	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP	1THU783
03316002	1.65	BENBOW VALLEY RESORT	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU505
03304117	4.14	HUMBOLDT COUNTY - BENBOW LANDFILL	Land Disposal Site	Open - Site Assessment	NORTH COAST RWQCB (REGION 1)	1LDHU812
07722113	0.56	REDWAY CARDLOCK	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU321
07719201	11.47	MEDD PROPERTY	Cleanup Program Sit	Open - Site Assessment	NORTH COAST RWQCB (REGION 1)	1NHU862
07718105	0.45	LIEFER, GEORGE	LUST Cleanup Site	Completed - Case Closed	NORTH COAST RWQCB (REGION 1)	1THU453
07718407	0.32	REDWAY ELEMENTARY SCHOOL	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU286
01717250	6.81	HINCH, JOSEPH R. RESIDENCE	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU726
51107105	44.33	AVIS RENT-A-CAR ARCATA AIRPORT	LUST Cleanup Site	Open - Site Assessment	NORTH COAST RWQCB (REGION 1)	1THU749
04206220	0.24	US TRINIDAD BOMBING	Military UST Site	Open - Inactive	NORTH COAST	1DODNHU753

TARGET (J09CA7297)				RWQCB (REGION 1)		
04204148	0.20	TOOBY RESIDENCE	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP NORTH COAST	1THU542
30639108	7.93	SOUTH BAY ELEMENTARY SCHOOL	LUST Cleanup Site	Completed - Case Closed	RWQCB (REGION 1)	1THU090
50726121	10.71	AMARANT WOOD PRODUCTS, INC.	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU506
30001108	145.53	A-1 EQUIPMENT	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU388
01710211	103.08	CHEVRON #8-4101 /MURRAY FIELD	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP NORTH COAST	1THU058
00212305	0.30	REDWOOD OIL BULK PLANT	Cleanup Program Sit	Open - Remediation	RWQCB (REGION 1) NORTH COAST	1NHU751
00220108	12.35	MONTGOMERY WARDS	LUST Cleanup Site	Completed - Case Closed	RWQCB (REGION 1)	1THU887
00112122	3.07	SMITH FAMILY BUSINESS	LUST Cleanup Site	Open - Inactive	NORTH COAST RWQCB (REGION 1)	
00209501	0.20	EUREKA BRAKE & FRONT END	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU779
00209410	0.15	HTA - V STREET SITE	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP NORTH COAST	1THU193
00212710	0.30	CAL-ONE CELLULAR	Cleanup Program Sit	Completed - Case Closed	RWQCB (REGION 1)	1NHU967
00210209	2.82	NIEKRASZ PLUMBING, INC. TETRAULT 4TH STREET	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU209
00213208	1.32	ROCKET	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU236
01408103	2.67	GEORGE'S EQUIPMENT	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU420
00121305	0.12	HCDPW MAIN OFFICE	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP	1THU973

00210111	0.36	HUMBOLDT PETROLEUM	LUST Cleanup Site	Open - Verification Monitoring	HUMBOLDT COUNTY LOP NORTH COAST RWQCB	1THU384
00113202	0.15	ADORNI SITE	Cleanup Program Sit	Completed - Case Closed	(REGION 1) NORTH COAST RWQCB	1NHU158
01415109	1.90	HUMBOLDT COUNTY AVIATION	Cleanup Program Sit	Open - Inactive Completed - Case Closed	(REGION 1) HUMBOLDT COUNTY LOP	1NHU754
01409108	4.81	U-HAUL CENTER, EUREKA	LUST Cleanup Site	Open - Remediation Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU056
00313105	0.37	ULTRAMAR BEACON #531 NORTH COAST	LUST Cleanup Site	Open - Remediation Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU316
00318208	0.69	MERCANTILE COMPANY TRADER DICK'S USED	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU268
00122205	0.39	CARS	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU071
00122101	0.07	DONUT MILL	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP	1THU730
00122306	0.50	QUALITY INN	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP NORTH COAST RWQCB	1THU733
01409103	3.25	HCDPW EUREKA GARAGE (JACOBS)	LUST Cleanup Site	Completed - Case Closed	(REGION 1) HUMBOLDT COUNTY LOP	1THU010
00117310	0.19	HUMBOLDT PETROLEUM AIR LIQUIDE (EUREKA	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU258
01409106	1.47	OXYGEN, A-L WELDING)	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU019
00106212	0.46	OREGON FREIGHTWAYS	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP NORTH COAST RWQCB	1THU054
01413102	1.91	TRINITY DIESEL	Cleanup Program Sit	Open - Inactive	(REGION 1) NORTH COAST RWQCB	1NHU621
00117507	0.15	HUMBOLDT COUNTY CIVIC CENTER	LUST Cleanup Site	Open - Site Assessment	(REGION 1) RWQCB	1THU483

00109402	0.29	EUREKA, CITY OF, PIONEER ALLEY FLUHRER BAKERIES	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU722
00102113	0.38	TRUCKING AREA	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP NORTH COAST RWQCB	1THU254
00119102	1.23	HCDBM COURTHOUSE	LUST Cleanup Site	Completed - Case Closed	(REGION 1) HUMBOLDT	1THU620
00125210	0.45	CARRINGTON COMPANY	LUST Cleanup Site	Completed - Case Closed	COUNTY LOP HUMBOLDT	1THU791
00109505	0.15	CARTER PROPERTIES	LUST Cleanup Site	Completed - Case Closed	COUNTY LOP NORTH COAST RWQCB	1THU333
00119104	0.46	HUMBOLDT COUNTY CIVIC CENTER	Cleanup Program Sit	Open - Site Assessment	(REGION 1) HUMBOLDT	1NHU483
00106606	0.48	EUREKA CITY ALLEY	LUST Cleanup Site	Completed - Case Closed	COUNTY LOP	1THU674
00123210	0.33	BIG OIL & TIRE - BIGFOOT GAS TOO	LUST Cleanup Site	Open - Verification	HUMBOLDT COUNTY LOP	1THU646
00110306	0.15	JIM DAVIS CAR WASH	LUST Cleanup Site	Monitoring Completed - Case Closed	HUMBOLDT COUNTY LOP NORTH COAST RWQCB	1THU507
00114402	0.15	Section Base, Seaplane, Lighter Than Air Base - US	Military Cleanup Si	Open - Inactive	(REGION 1) HUMBOLDT	1NHU844
00107201	0.60	ZENKERFELT MOTORS	LUST Cleanup Site	Completed - Case Closed	COUNTY LOP NORTH COAST RWQCB	1THU290
00114502	0.48	US FEDERAL BUILDING	LUST Cleanup Site	Completed - Case Closed	(REGION 1) HUMBOLDT	1THU607
00103101	0.24	A. T. DISTRIBUTING	LUST Cleanup Site	Completed - Case Closed	COUNTY LOP HUMBOLDT	1THU247
00114503	0.25	EXXON, RON'S	LUST Cleanup Site	Completed - Case Closed	COUNTY LOP NORTH COAST RWQCB	1THU355
00304107	18.37	SOUTHERN PACIFIC TRANSPORATION CO - 4th	Cleanup Program Sit	Open - Remediation	(REGION 1)	1NHU064

00304103	1.06	NILSEN FEED COMPANY EUREKA, CITY OF, FIRE	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU252
00107303	0.36	STA #1	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU510
00115205	0.31	MCCREA NISSAN SHOWROOM	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU648
00111305	0.30	REDWOOD MOTORS, INC.	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP	1THU067
00311102	0.18	HANSEN MACHINE WORKS	LUST Cleanup Site	Open - Remediation	HUMBOLDT COUNTY LOP	1THU642
00308219	2.70	SIMPSON PLYWOOD MILL (OLD)	Cleanup Program Sit	Open - Assessment & Interim Remedial Act	NORTH COAST RWQCB (REGION 1)	1NHU103
00111601	0.99	NORTHWOOD CHEVROLET	LUST Cleanup Site	Open - Remediation	HUMBOLDT COUNTY LOP	1THU266
00304105	0.68	ARCO BULK PLANT (FORMER)	Cleanup Program Sit	Open - Site Assessment	NORTH COAST RWQCB (REGION 1)	1NHU624
00304106	0.54	SOUTHERN PACIFIC TRANS CO.	LUST Cleanup Site	Open - Verification Monitoring	NORTH COAST RWQCB (REGION 1)	1THU064
00307204	23.50	SCHMIDBAUER LUMBER COMPANY	Cleanup Program Sit	Open - Remediation	NORTH COAST RWQCB (REGION 1)	1NHU602
00312138	0.51	EUREKA, WASHINGTON PUMP STATION	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU511
00312101	0.62	DONS RENT-ALL	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP	1THU794
00312102	0.11	PIERCE, E. W. COMPANY	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU112
00312147	0.98	USFS CLARK STREET LIFT	Cleanup Program Sit	Completed - Case Closed	NORTH COAST RWQCB (REGION 1)	1NHU532
00312148	0.78	CANTON CAFE	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU294

00502501	0.30	CLINESMITH, EUGENE (DAILY INN B & B)	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU641
00623303	0.86	HUMBOLDT PETROLEUM	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP	1THU269
00307206	4.15	UNOCAL TERMINAL (EUREKA)	Cleanup Program Sit	Open - Assessment & Interim Remedial Act	NORTH COAST RWQCB (REGION 1)	1NHU463
00402513	0.29	UNOCAL #2201	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU381
00416301	0.70	LIPSCOMB, JOHN	Cleanup Program Sit	Open - Inactive	NORTH COAST RWQCB (REGION 1)	1NHU244
00313116	3.05	NORTH COAST MOTORS	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU119
00308221	0.92	UNOCAL TERMINAL (EUREKA)	LUST Cleanup Site	Open - Remediation	NORTH COAST RWQCB (REGION 1)	1THU463
00516502	0.06	SIERRA PACIFIC AKA EUREKA FOREST PRODUST	Cleanup Program Sit	Open - Inactive	NORTH COAST RWQCB (REGION 1)	1NHU263
00308203	2.72	PG&E COAL GAS PLANT 119-1	Cleanup Program Sit	Open - Site Assessment	NORTH COAST RWQCB (REGION 1)	1NHU282
00516510	0.15	CASH-AND-CARRY	Cleanup Program Sit	Completed - Case Closed	NORTH COAST RWQCB (REGION 1)	1NHU530
00314104	2.68	O & M INDUSTRIES	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU556
00314101	0.18	BIG OIL & TIRE - BROADWAY BP	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU645
00403212	0.15	SWEETHEART MOTORS	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP	1THU917
00510509	0.10	EUREKA, CITY OF	Cleanup Program Sit	Completed - Case Closed	NORTH COAST RWQCB (REGION 1)	1NHU232

00504309	0.28	EUREKA CITY SCHOOL BUS GARAGE	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP NORTH COAST RWQCB	1THU649
00417113	0.12	JAMES-CARL & COMPANY BIG OIL&TIRE BROADWAY	Cleanup Program Sit	Completed - Case Closed	(REGION 1) HUMBOLDT COUNTY LOP	1NHU601
00403405	0.41	EXXON	LUST Cleanup Site	Assessment Completed - Case Closed	HUMBOLDT COUNTY LOP HUMBOLDT COUNTY LOP NORTH COAST RWQCB	1THU799
00403407	0.53	EUREKA CAR STEREO	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP NORTH COAST RWQCB	1THU776
00308216	15.64	UNOCAL BULK PLANT	Cleanup Program Sit	Open - Inactive Completed - Case Closed	(REGION 1) HUMBOLDT COUNTY LOP	1NHU305
00308228	9.39	EUREKA COSTCO CDOT EUREKA EQUIPMENT SHOP	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU322
00404201	2.71		LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU455
00404203	0.46	WONDERLAND SUPPLY	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP NORTH COAST RWQCB	1THU424
00511113	0.13	EUREKA FOREST PRODUCTS	LUST Cleanup Site	Completed - Case Closed	(REGION 1) NORTH COAST RWQCB	1THU263
00513323	0.19	DELANEY, DOROTHY	LUST Cleanup Site	Completed - Case Closed	(REGION 1) HUMBOLDT	1THU285
00426302	0.14	JACOBSEN, MICKEY	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU459
00703103	9.92	CITY GARBAGE COMPANY	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU467
00318205	1.21	DEO, FRED C.	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP	1THU171
01202109	0.26	HARTRIDGE RESIDENCE	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU663
01311109	0.75	GENERAL HOSPITAL	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU416
00705111	9.00	CUMMINS WEST INC.	Cleanup Program Sit	Completed - Case Closed	NORTH COAST RWQCB	1NHU126

						(REGION 1)	
						NORTH COAST	
01312103	7.41	ST. JOSEPH HOSPITAL	LUST Cleanup Site	Completed -	RWQCB		
		ST. BERNARD'S HIGH		Case Closed	(REGION 1)	1THU106	
01016204	2.27	SCHOOL	LUST Cleanup Site	Completed -	HUMBOLDT		
				Case Closed	COUNTY LOP	1THU701	
		UNOCAL #5680 / MALL			NORTH COAST		
00817110	0.40	UNION	LUST Cleanup Site	Completed -	RWQCB		
				Case Closed	(REGION 1)	1THU367	
					NORTH COAST		
01025222	0.29	NORMAN'S DRY CLEANERS	LUST Cleanup Site	Open - Site	RWQCB		
				Assessment	(REGION 1)	1THU694	
					NORTH COAST		
01106201	1.35	HCDBM CLARK COMPLEX	LUST Cleanup Site	Completed -	RWQCB		
				Case Closed	(REGION 1)	1THU623	
				Open -			
01006314	0.12	HUMBOLDT PETROLEUM	LUST Cleanup Site	Verification	HUMBOLDT		
				Monitoring	COUNTY LOP	1THU251	
				Open -			
		CHEVRON USA-MARINE		Assessment &	NORTH COAST		
00708109	0.19	TERMINAL	Cleanup Program Sit	Interim	RWQCB		
		EUREKA, MCCULLEN		Remedial Act	(REGION 1)	1NHU523	
00708130	0.07	AVENUE PUMP STATION	LUST Cleanup Site	Completed -	HUMBOLDT		
				Case Closed	COUNTY LOP	1THU560	
					NORTH COAST		
00906106	6.66	SEARS RETAIL STORE	LUST Cleanup Site	Completed -	RWQCB		
				Case Closed	(REGION 1)	1THU218	
00709215	2.08	MCMURRAY & SONS	LUST Cleanup Site	Completed -	HUMBOLDT		
				Case Closed	COUNTY LOP	1THU693	
					NORTH COAST		
01924103	1.68	OREGON COAST TOWING	Cleanup Program Sit	Completed -	RWQCB		
				Case Closed	(REGION 1)	1NHU012	
					NORTH COAST		
01924104	2.60	PETERSON TRACTOR,	LUST Cleanup Site	Open - Site	RWQCB		
		FORMER		Assessment	(REGION 1)	1THU908	
01925107	1.06	BROADWAY BULK PLANT	Cleanup Program Sit	Open - Site	NORTH COAST	1NHU769	

				Assessment	RWQCB (REGION 1)	
01925106	2.32	BISHOP'S TRUCK STOP	LUST Cleanup Site	Open -	HUMBOLDT	1THU065
		PIERSON BUILDING		Verification	COUNTY LOP	
01925104	5.22	CENTER	LUST Cleanup Site	Monitoring	HUMBOLDT	1THU105
		OCEAN VIEW CEMETERY,		Completed -	COUNTY LOP	
01921120	2.52	CORPORATION YARD	LUST Cleanup Site	Completed -	HUMBOLDT	1THU469
		EUREKA MUNICIPAL GOLF		Case Closed	COUNTY LOP	
30103118	65.98	COURSE	LUST Cleanup Site	Completed -	HUMBOLDT	1THU464
				Case Closed	COUNTY LOP	
30217120	0.44	HENSELL MATERIALS, INC.	LUST Cleanup Site	Completed -	HUMBOLDT	1THU076
		EUREKA TALLOW		Case Closed	COUNTY LOP	
30217137	8.84	COMPANY	LUST Cleanup Site	Completed -	HUMBOLDT	1THU425
		COCA COLA BOTTLING		Case Closed	COUNTY LOP	
00403105	0.14	COMPANY	LUST Cleanup Site	Case Closed	COUNTY LOP	1THU293
					NORTH COAST	
		SIMPSON TIMBER		Completed -	RWQCB	
01708101	60.49	(BRAINARD)	LUST Cleanup Site	Case Closed	(REGION 1)	1THU024
					NORTH COAST	
				Completed -	RWQCB	
50914110	0.18	HUNTER, ARTHUR C.	Cleanup Program Sit	Case Closed	(REGION 1)	1NHU614
		SIMPSON PAPER / HUMB		Completed -	HUMBOLDT	
40130109	136.87	PULP MILL	LUST Cleanup Site	Case Closed	COUNTY LOP	1THU055
					NORTH COAST	
		SIMPSON TIMBER		Open - Site	RWQCB	
40103146	68.55	COMPANY SAMOA	Cleanup Program Sit	Assessment	(REGION 1)	1NHU764
		Simpson Timber Company		Completed -	HUMBOLDT	
31303107	427.05	Korbel Mill	LUST Cleanup Site	Case Closed	COUNTY LOP	1THU785
					NORTH COAST	
		SIMPSON RESOURCES			RWQCB	
31303201	645.04	KORBEL WWDS	Land Disposal Site	Open	(REGION 1)	1B75147OHUM
		COLLEGE OF THE		Completed -	HUMBOLDT	
30706107	64.57	REDWOODS	LUST Cleanup Site	Case Closed	COUNTY LOP	1THU372
51714214	41.95	SIMPSON TIMBER	Cleanup Program Sit	Open - Inactive	NORTH COAST	1NHU875

COMPANY SAWMILL				RWQCB (REGION 1) HUMBOLDT COUNTY LOP NORTH COAST RWQCB (REGION 1)		
52217428	1.22	UNION, FORK'S	LUST Cleanup Site	Completed - Case Closed		1THU083
20004308	5.65	HUMBOLDT CREAMERY ASSOCIATION	Cleanup Program Sit	Open - Inactive Open - Verification Monitoring		1NHU488
04029248	2.57	CDF FORTUNA	LUST Cleanup Site			1THU011
51313108	99.21	LOUISIANA PACIFIC CRANNELL FORESTRY	Cleanup Program Sit	Open - Inactive Open - Verification Monitoring		1NHU861
51610153	0.32	BIG OIL & TIRE - GLENDALE BP	LUST Cleanup Site			1THU170
51615119	12.06	MCNAMARA & PEEPE	Cleanup Program Sit	Open - Inactive Completed - Case Closed		1NHU527
51614118	16.33	BLUE CHIP MILLING HUMBOLDT BAY	LUST Cleanup Site			1THU086
51612157	2.17	MUNICIPAL WATER DIST PUMP STA #3	Cleanup Program Sit	Open - Site Assessment		1NHU562
51610183	2.62	TREND STUD MILL	Cleanup Program Sit	Open - Inactive		1NHU876
50606110	13.59	SIERRA PACIFIC ARCATA DIVISION	Cleanup Program Sit	Open - Remediation Completed - Case Closed		1NHU526
40004154	0.58	BIG OIL & TIRE MANILA	LUST Cleanup Site			1THU667
50607111	0.63	REDWOOD COAST TRUCKING, INC.	LUST Cleanup Site	Completed - Case Closed		1THU095
51216106	7.37	FLDDBROOK	LUST Cleanup Site	Completed -		1THU216

		ELEMENTARY SCHOOL		Case Closed	RWQCB (REGION 1)	
30520104	1.56	EUREKA FISHERIES	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP NORTH COAST RWQCB	1THU081
30520117	4.83	HUMBOLDT BAY FOREST PRODUCTS	Cleanup Program Sit	Open - Inactive	(REGION 1)	1NHU743
30517115	35.80	HUMBOLDT BAY FOREST PRODUCTS	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP	1THU743
30710105	51.21	HUMBOLDT BAY FOREST PRODUCTS	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU379
20324105	11.03	CHAMBERS LOGGING	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU703
51012236	0.85	TETRAULT MCKINLEYVILLE ROCKET STATION	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP NORTH COAST RWQCB	1THU533
40501102	1.46	INDIAN ISLAND	Cleanup Program Sit	Open - Site Assessment	(REGION 1)	1NHU802
30516101	34.45	EZ LANDING MARINA & RV PARK	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP	1THU928
20209212	2.01	EEL RIVER DISPOSAL	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP NORTH COAST RWQCB	1THU219
40501110	44.14	INDIAN ISLAND	Cleanup Program Sit	Open - Site Assessment	(REGION 1)	1NHU802
21519141	35.77	SHUSD WHITETHORN SCHOOL	LUST Cleanup Site	Open - Verification Monitoring	HUMBOLDT COUNTY LOP NORTH COAST RWQCB	1THU370
21515201	636.88	HUMBOLDT COUNTY - SHELTER COVE BURN DUMP	Land Disposal Site	Open - Site Assessment	(REGION 1)	1LDHU828
02520109	0.72	BLUE LAKE PUBLIC WORKS YARD	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU050
10016225	0.30	NOBLES GROCERY	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP	1THU363
21019105	26.42	PG&E HANSEN HILL	LUST Cleanup Site	Completed -	HUMBOLDT	1THU068

		REPEATER		Case Closed	COUNTY LOP	
03203423	0.32	CHEVRON, GARBERVILLE	LUST Cleanup Site	Open - Remediation	HUMBOLDT COUNTY LOP	1THU393
03207123	0.33	HUMBOLDT PETROLEUM	LUST Cleanup Site	Open - Remediation	HUMBOLDT COUNTY LOP	1THU331
03207129	1.07	Motel Garberville	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP	
03203405	0.39	UNOCAL #4080	LUST Cleanup Site	Open - Verification Monitoring	HUMBOLDT COUNTY LOP NORTH COAST	1THU458
03202128	1.43	SOUTHERN HUMBOLDT BUILDERS	LUST Cleanup Site	Completed - Case Closed	RWQCB (REGION 1)	1THU174
50919124	0.49	CIRCLE K STORE #1106	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP	1THU698
40131101	20.26	FAIRHAVEN FIRE PROTECTION DISTRICT	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP NORTH COAST	1THU297
20036334	5.72	MAKI, ALLAN WOODWASTE DISPOSAL SITE	Land Disposal Site	Open - Site Assessment	RWQCB (REGION 1)	1LDHU849
20035305	4.06	OIL WELL LUBE CENTER / FORMER DIPSTICK	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP NORTH COAST	1THU793
01715103	1.28	INDIANOLA MARKET	LUST Cleanup Site	Completed - Case Closed	RWQCB (REGION 1) NORTH COAST	1THU073
40230119	1.39	WAYNE HOOPER TRUCKING	Cleanup Program Sit	Open - Inactive	RWQCB (REGION 1) NORTH COAST	1NHU639
51627103	19.80	HUMBOLDT BAY MUNI WATER ESSEX	LUST Cleanup Site	Completed - Case Closed	RWQCB (REGION 1)	1THU225
50420137	1.78	SIMPSON TIMBER, MAD RIVER COMPLEX	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP NORTH COAST	1THU502
21608103	236.25	HUMBOLDT COUNTY - HARRIS BURN DUMP	Land Disposal Site	Open - Site Assessment	RWQCB (REGION 1)	1LDHU819

30911301	0.35	LOLETA FIRE PROTECTION DISTRICT	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP NORTH COAST RWQCB	1THU234
51528110	6.52	STEINBERG, ROBERT & SUSAN	LUST Cleanup Site	Completed - Case Closed	(REGION 1) HUMBOLDT COUNTY LOP	1THU314
09512134	0.24	WEOTT AUTOMOTIVE SERVICE	LUST Cleanup Site	Open - Referred	HUMBOLDT COUNTY LOP	1THU329
40203212	4.71	INDIANOLA MARKET	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP NORTH COAST RWQCB	1THU690
40233131	3.65	FIGAS CONSTRUCTION	Cleanup Program Sit	Completed - Case Closed	(REGION 1) HUMBOLDT COUNTY LOP	1NHU622
40224106	0.15	FRESHWATER STORE HUMBOLDT AREA	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU206
40203129	11.13	FOUNDATION	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU787
40206106	2.93	BRADEN AUTOMOTIVE	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU439
40216101	21.14	MID-CITY MOTOR WORLD	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU280
03212119	0.55	CHEVRON #9-0416	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP	1THU347
03205166	0.19	TEXACO - BIG A AUTO PARTS	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP	1THU500
03205109	0.18	CHEVRON #9-0667 (CONNIE'S CORNER GIFTS)	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP NORTH COAST RWQCB	1THU503
02511110	8.95	BLUE LAKE UNION ELEMENTARY SCHOOL	LUST Cleanup Site	Completed - Case Closed	(REGION 1) HUMBOLDT COUNTY LOP	1THU215
20126101	62.33	MERCER FRASER CO. FORTUNA YD.	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU110
03213303	0.69	SOUTHERN HUMBOLDT COMMUNITY HOSPITAL	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU448
03201106	0.22	CONTEL, GARBERVILLE	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU043
03201118	0.17	DON'S AUTO PARTS	Cleanup Program Sit	Open - Inactive	NORTH COAST	1NHU809

FACILITY				Case Closed	RWQCB (REGION 1) NORTH COAST RWQCB (REGION 1) NORTH COAST RWQCB (REGION 1) HUMBOLDT COUNTY LOP HUMBOLDT COUNTY LOP	
00116105	0.66	HCDPW SIGN YARD	LUST Cleanup Site	Open - Site Assessment		1THU113
00101206	0.55	R.E. DAVENPORT	LUST Cleanup Site	Open - Site Assessment		1THU561
00101307	0.99	BAKER & STANTON EUREKA, HILL STREET	LUST Cleanup Site	Completed - Case Closed		1THU243
00219131	1.82	PUMP STATION	LUST Cleanup Site	Completed - Case Closed		1THU559
00225226	7.14	BIG OIL & TIRE - MALL 101 BP	LUST Cleanup Site	Open - Verification Monitoring		1THU653
00314311	0.05	OLD WOOLEN MILL	Cleanup Program Sit	Completed - Case Closed		1NHU175
00317110	0.56	MCBETH, JOHN AL'S EUREKA TRUCK	LUST Cleanup Site	Completed - Case Closed		1THU508
00712105	2.69	TERMINAL	LUST Cleanup Site	Completed - Case Closed		1THU088
01307109	0.31	MATSON ARCHITECTS	LUST Cleanup Site	Completed - Case Closed		1THU474
00101403	1.04	EUREKA, CITY OF	LUST Cleanup Site	Completed - Case Closed		1THU911
00106412	0.90	JOHN EHRET DODGE HUMBOLDT COUNTY - WILLOW CREEK BURN	LUST Cleanup Site	Open - Site Assessment		1THU213
52219128	2.39	DUMP	Land Disposal Site	Open - Site Assessment		1LDHU831
52220101	48.06	PILOT TIMBER OCEAN VIEW	LUST Cleanup Site	Completed - Case Closed		1THU408
01934101	38.71	CEMETERY,CREMATORIUM	LUST Cleanup Site	Open - Site Assessment		1THU296
20030201	0.17	FERNBRIDGE MARKET	LUST Cleanup Site	Open -		1THU345

				Verification Monitoring Open - Site Assessment	COUNTY LOP	
20004209	1.55	L&M RENNER FERNBRIDGE CARDLOCK	LUST Cleanup Site		HUMBOLDT COUNTY LOP NORTH COAST RWQCB	1THU922
50725121	11.55	MAD RIVER INDUSTRIAL COMPLEX	LUST Cleanup Site	Completed - Case Closed	(REGION 1) NORTH COAST RWQCB	1THU063
50743016	0.97	BRITT SAWMILL	Cleanup Program Sit	Open - Inactive	(REGION 1) NORTH COAST RWQCB	1NHU057
50725118	16.66	AMARANT WOOD PRODUCTS	Cleanup Program Sit	Open - Inactive	(REGION 1) HUMBOLDT	1NHU506
50746111	12.89	CASCADE FOREST PRODUCTS, INC.	LUST Cleanup Site	Completed - Case Closed	COUNTY LOP	1THU395
50729138	20.34	JOHNSON RANCHES	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU444
50712136	55.04	BRITT LUMBER CO.	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP NORTH COAST RWQCB	1THU057
50712113	3.25	LOUISIANA PACIFIC / HUMBOLDT FLAKEBOARD	Cleanup Program Sit	Completed - Case Closed	(REGION 1) NORTH COAST RWQCB	1NHU772
50712133	1.68	BETTENDORF ENTERPRISES, INC.	Cleanup Program Sit	Open - Site Assessment	(REGION 1) NORTH COAST RWQCB	1NHU627
50711102	31.47	SIMPSON TIMBER, MAD RIVER INDUSTRIAL COMPLEX	Cleanup Program Sit	Completed - Case Closed	(REGION 1) NORTH COAST RWQCB	1NHU502
50720356	40.89	SUN VALLEY BULB FARMS	Land Disposal Site	Open - Site Assessment Open - Verification	(REGION 1) HUMBOLDT COUNTY LOP	1LDHU091
50742220	0.18	HUMBOLDT PETROLEUM	LUST Cleanup Site	Monitoring Open - Verification	HUMBOLDT COUNTY LOP	1THU163
50709236	0.84	S&H AUTO WRECKERS	LUST Cleanup Site		HUMBOLDT COUNTY LOP	1THU737

50501117	2.87	CAL-KIRK LANDSCAPING	LUST Cleanup Site	Monitoring	HUMBOLDT	
		SUNSET SCHOOL BUS		Completed -	COUNTY LOP	1THU082
50504110	2.61	GARAGE	LUST Cleanup Site	Case Closed	HUMBOLDT	
				Completed -	COUNTY LOP	1THU415
02013701	1.45	FISCH TRUST PROPERTY	LUST Cleanup Site	Completed -	HUMBOLDT	
				Case Closed	COUNTY LOP	1THU715
02010207	0.15	SCHMIDT RESIDENCE	LUST Cleanup Site	Completed -	HUMBOLDT	
				Case Closed	COUNTY LOP	1THU710
02009704	0.21	SWEET, WALTER B., INC.	LUST Cleanup Site	Completed -	HUMBOLDT	
				Case Closed	COUNTY LOP	1THU695
				Open -		
02005224	3.48	HUMBOLDT STATE		Verification	HUMBOLDT	
		UNIVERSITY - PLANT OPS	LUST Cleanup Site	Monitoring	COUNTY LOP	1THU405
				Open -	HUMBOLDT	
02109511	0.25	SHELL, BLOXHAMS	LUST Cleanup Site	Remediation	COUNTY LOP	1THU211
		RELIABLE HARDWARE		Completed -	HUMBOLDT	
02123410	0.15	COMPANY	LUST Cleanup Site	Case Closed	COUNTY LOP	1THU015
		RELIABLE EQUIPMENT		Completed -	HUMBOLDT	
02011407	0.37	COMPANY	LUST Cleanup Site	Case Closed	COUNTY LOP	1THU016
		SCHMIDBAUER ARCATA		Completed -	HUMBOLDT	
02122306	4.29	MILL	LUST Cleanup Site	Case Closed	COUNTY LOP	1THU655
		STIMSON LUMBER		Completed -	HUMBOLDT	
02122308	1.03	COMPANY	LUST Cleanup Site	Case Closed	COUNTY LOP	1THU410
				Completed -	HUMBOLDT	
02117303	0.98	BRIZARD COMPANY	LUST Cleanup Site	Case Closed	COUNTY LOP	1THU704
				Completed -	HUMBOLDT	
02114402	0.42	DAVIS TRUST	LUST Cleanup Site	Case Closed	COUNTY LOP	1THU904
		ARCATA MOVING AND		Completed -	HUMBOLDT	
02114509	0.10	STORAGE	LUST Cleanup Site	Case Closed	COUNTY LOP	1THU389
					NORTH COAST	
		CALIF CENTRAL		Completed -	RWQCB	
02115106	0.35	CREAMERY BUILDING	Cleanup Program Sit	Case Closed	(REGION 1)	1NHU292
		NORTHCOAST		Completed -	HUMBOLDT	
02110204	0.08	ENVIRONMENTAL CENTER	LUST Cleanup Site	Case Closed	COUNTY LOP	1THU901
02105709	0.86	ARCATA FIRE	LUST Cleanup Site	Completed -	HUMBOLDT	1THU021

		PROTECTION		Case Closed	COUNTY LOP	
				Completed -	HUMBOLDT	
02002405	0.47	DOLF ESTATE	LUST Cleanup Site	Case Closed	COUNTY LOP	1THU780
				Completed -	HUMBOLDT	
02104101	0.06	OLD ARCATA CITY HALL	LUST Cleanup Site	Case Closed	COUNTY LOP	1THU798
				Completed -	HUMBOLDT	
02120105	2.41	TROMBETTA WAREHOUSE	LUST Cleanup Site	Case Closed	COUNTY LOP	1THU122
					NORTH COAST	
				Completed -	RWQCB	
02110112	0.21	SACCHI PROPERTIES	Cleanup Program Sit	Case Closed	(REGION 1)	1NHU792
				Open -		
				Verification	HUMBOLDT	
02104406	0.26	UNOCAL #4066	LUST Cleanup Site	Monitoring	COUNTY LOP	1THU555
					NORTH COAST	
				Open - Site	RWQCB	
02116801	0.57	HUMBOLDT WASTE MANAGEMENT AUTHORITY	Cleanup Program Sit	Assessment	(REGION 1)	1NHU765
				Completed -	HUMBOLDT	
02104410	0.33	ARCO #00421	LUST Cleanup Site	Case Closed	COUNTY LOP	1THU736
		NAAS Arcata Bombing Range			NORTH COAST	
		- US NAAS ARCATA-			RWQCB	
02104322	0.25	BOMBING	Military Cleanup Si	Open - Inactive	(REGION 1)	1NHU840
					NORTH COAST	
				Open -	RWQCB	
02111508	0.18	ARCATA, CITY CORPORATION YARD	Cleanup Program Sit	Remediation	(REGION 1)	1NHU767
		CASH OIL COMPANY		Completed -	HUMBOLDT	
02118203	0.27	(ARCATA)	LUST Cleanup Site	Case Closed	COUNTY LOP	1THU302
					NORTH COAST	
				Completed -	RWQCB	
50320204	30.35	UNIVERSAL FOREST PRODUCTS	Cleanup Program Sit	Case Closed	(REGION 1)	1NHU489
		PORTER STREET BBQ /		Open - Site	HUMBOLDT	
02118516	5.57	FORMER A&A TEXACO	LUST Cleanup Site	Assessment	COUNTY LOP	1THU784
				Completed -	HUMBOLDT	
02111702	0.33	KENS AUTO PARTS	LUST Cleanup Site	Case Closed	COUNTY LOP	1THU795
				Completed -	HUMBOLDT	
02111212	0.30	VAGLE'S UNIONTOWN TIRE	LUST Cleanup Site	Case Closed	COUNTY LOP	1THU712
50323213	10.55	LITTLE LAKE INDUSTRIES	Cleanup Program Sit	Open - Site	NORTH COAST	1NHU018

		(ARCATA MILL)		Assessment	RWQCB (REGION 1)	
50325103	16.42	LITTLE LAKE INDUSTRIES	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU018
50322212	0.13	VIDEO EXPERIENCE	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU915
02112202	0.72	ARCATA AMBULANCE	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU017
50104201	66.36	CHP ARCATA	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP	1THU462
50321132	74.88	CLIFFORD PROPERTY	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU696
50305205	0.20	SUNNYBRAE CENTER PARTNERSHIP	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP	1THU544
50019102	1.20	ROGERS GARAGE (FORMER)	Cleanup Program Sit	Assessment & Interim	NORTH COAST RWQCB	
50019120	0.48	ROGERS GARAGE (FORMER)	LUST Cleanup Site	Remedial Act Completed - Case Closed	(REGION 1) HUMBOLDT COUNTY LOP	1NHU804
30513124	8.22	KIEM-TV EUREKA HUMBOLDT CSD	Cleanup Program Sit	Completed - Case Closed	NORTH COAST RWQCB (REGION 1)	1NHU603
30513138	6.40	(BROADWAY)	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU657
30513135	67.01	PG&E HUMBOLDT BAY POWER PLANT	Cleanup Program Sit	Open - Site Assessment	NORTH COAST RWQCB (REGION 1)	1NHU303
31212103	1.63	BIG OIL & TIRE - BLUE LAKE BP	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP	1THU509
52006110	8.00	ORICK SCHOOL	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU447
52008608	1.06	GREEN VALLEY EXXON	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP	1THU921
52008111	1.09	BIG OIL & TIRE ORICK 76	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU656

52015114	6.54	HUMBOLDT CO ORICK BURN DUMP	Land Disposal Site	Open	NORTH COAST RWQCB	1B880750NHU
52015115	1.54	SHORELINE MARKET	LUST Cleanup Site	Open - Site	(REGION 1)	
52013102	0.24	CDOT ORICK MAINTENANCE STATION	LUST Cleanup Site	Assessment	HUMBOLDT	1THU777
52002207	0.60	PARK-WOODS GARAGE AKA ORICK PRESBYTERIAN CHURCH	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU003
01804313	0.33	TEXACO	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU227
21413115	68.60	SHUSD SOUTH FORK HIGH	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU262
21404122	2.99	DEERHORN LODGE	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU670
21629110	0.93	LOUISIANA PACIFIC ALDERPOINT MILL	Cleanup Program Sit	Open - Inactive	HUMBOLDT COUNTY LOP	1THU699
21625501	0.24	ALDERPOINT GENERAL STORE	LUST Cleanup Site	Completed - Case Closed	NORTH COAST RWQCB	1NHU853
10507106	37.67	PETROLIA ELEMENTARY SCHOOL	Cleanup Program Sit	Completed - Case Closed	(REGION 1)	
10509105	2.03	HENRY A DREES TRUST	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU487
20733211	3.47	CDPR GRIZZLEY CREEK REDWOODS	LUST Cleanup Site	Completed - Case Closed	NORTH COAST RWQCB	1THU666
20711107	1.59	SWAIN'S FLAT OUTPOST	LUST Cleanup Site	Completed - Case Closed	(REGION 1)	
50623110	30.17	SIMPSON TIMBER COMPANY, ARCATA	Cleanup Program Sit	Open - Site	HUMBOLDT COUNTY LOP	1THU717
30210108	2.52	CDOT ELK RIVER INTERCHANGE	Cleanup Program Sit	Assessment Completed - Case Closed	NORTH COAST RWQCB	1NHU661
						1NHU354

20644143	2.14	CUDDEBACK ELEMENTARY SCHOOL	LUST Cleanup Site	Completed - Case Closed	(REGION 1) HUMBOLDT COUNTY LOP NORTH COAST	1THU027
20535113	13.89	SOUTHERN PACIFIC SCOTIA RAIL	LUST Cleanup Site	Completed - Case Closed	RWQCB (REGION 1)	1THU051
20535121	519.18	PACIFIC LUMBER COMPANY, BERTAINS LAUNDRY	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU241
01807229	0.18	FOXWOOD ESTATES	LUST Cleanup Site	Open - Verification Monitoring	HUMBOLDT COUNTY LOP	1THU916
01701227	0.46	CHEVRON #9-1109	LUST Cleanup Site	Open - Verification Monitoring	HUMBOLDT COUNTY LOP	1THU062
22317105	0.70	UNOCAL BULK PLANT #1153/RENNER	LUST Cleanup Site	Open - Site Assessment	HUMBOLDT COUNTY LOP	1THU386
22317108	4.22	UNOCAL BULK PLANT #0228	LUST Cleanup Site	Open - Remediation	HUMBOLDT COUNTY LOP	1THU552
22317104	10.58	CDOT, GARBERVILLE MAINTENANCE STATION	Cleanup Program Sit	Open - Site Assessment	NORTH COAST RWQCB (REGION 1)	1NHU038
30407105	85.90	CONNORS, WILLIAM R.	LUST Cleanup Site	Completed - Case Closed	NORTH COAST RWQCB (REGION 1)	1THU295
51216121	6.15	COTTER, MARY ALICE	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP	1THU349
20636110	0.70	CARLOTTA LUMBER COMPANY	Cleanup Program Sit	Open - Inactive	NORTH COAST RWQCB (REGION 1)	1NHU761
51135109	415.48	Eureka-Humboldt County Airport - US ARCATA AUX NAS	Military UST Site	Open - Inactive	NORTH COAST RWQCB (REGION 1)	1DODTHU889
20511115	20.14	EEL RIVER SAWMILLS, FORTUNA	Cleanup Program Sit	Open - Site Assessment	NORTH COAST RWQCB (REGION 1)	1NHU528

52249117	15.67	MCKNIGHT REDI-MIX	LUST Cleanup Site	Completed - Case Closed	HUMBOLDT COUNTY LOP NORTH COAST RWQCB (REGION 1) NORTH COAST RWQCB (REGION 1) NORTH COAST RWQCB (REGION 1) NORTH COAST RWQCB (REGION 1)	1THU237
03302143	0.81	BENBOW SUBDIVISION	Land Disposal Site	Open		1B93016RHUM
40534105	2.02	STEVE WILLIS TRUCKING FRESHWATER CREEK SPILL	Cleanup Program Sit	Open - Site Assessment		1NHU934
20718209	93.27	CDOT BRIDGEVILLE BRIDGE REPLACEMENT	Cleanup Program Sit	Completed - Case Closed		1NHU344
01415109	2.63	HUMBOLDT COUNTY AVIATION	Cleanup Program Sit	Open - Inactive		1NHU754

Redevelopment area sites: assessor's parcel number, area, and acres.

APN	AREA	ACRES	50608118	MANILA	1.58
20129211	ALTON	13.64	50608116	MANILA	0.41
20124115	ALTON	7.68	50608102	MANILA	2.17
20124114	ALTON	0.45	50608217	MANILA	1.02
20122112	ALTON	1.30	50608103	MANILA	0.13
20122101	ALTON	2.05	50608104	MANILA	0.15
20121104	ALTON	9.42	50608221	MANILA	1.25
30520105	FIELDS LANDING	0.68	50606106	MANILA	1.34
30520104	FIELDS LANDING	1.56	50606107	MANILA	12.19
30520111	FIELDS LANDING	1.87	50607110	MANILA	0.30
30520103	FIELDS LANDING	2.61	50608117	MANILA	2.06
30520117	FIELDS LANDING	4.83	50606128	MANILA	10.89
30517115	FIELDS LANDING	35.80	52001213	ORICK	43.00
30520116	FIELDS LANDING	14.18	52008609	ORICK	0.32
30710108	FIELDS LANDING	14.16	52008608	ORICK	1.06
30710102	FIELDS LANDING	33.02	52008111	ORICK	1.09
30711103	FIELDS LANDING	11.95	52014206	ORICK	0.86
30622107	FIELDS LANDING	3.76	52008607	ORICK	0.18
30620142	FIELDS LANDING	4.54	52015115	ORICK	1.54
30620182	FIELDS LANDING	3.26	51920216	ORICK	32.49
30520108	FIELDS LANDING	0.57	51920215	ORICK	2.28
30520109	FIELDS LANDING	0.53	07735103	REDWAY	3.58
51616103	GLENDALE	4.86	07735106	REDWAY	0.67
51610153	GLENDALE	0.32	07732104	REDWAY	1.91
51610152	GLENDALE	0.57	07732107	REDWAY	1.19
51611115	GLENDALE	2.80	07732108	REDWAY	0.62
51615119	GLENDALE	12.06	07733136	REDWAY	0.26
51615116	GLENDALE	22.02	07722113	REDWAY	0.56
51610140	GLENDALE	9.25	07715122	REDWAY	0.60
51611161	GLENDALE	0.86		SAMOA	
51610108	GLENDALE	0.79	40103140	FAIRHAVEN	67.27
51610179	GLENDALE	1.44		SAMOA	
51610183	GLENDALE	2.62	40111211	FAIRHAVEN	15.56
51610168	GLENDALE	1.40		SAMOA	
51610163	GLENDALE	1.32	40112204	FAIRHAVEN	22.58
51610164	GLENDALE	0.79		SAMOA	
51610184	GLENDALE	4.99	40112111	FAIRHAVEN	10.35
51610117	GLENDALE	1.83		SAMOA	
51615104	GLENDALE	1.09	40112210	FAIRHAVEN	2.12
51615103	GLENDALE	2.22		SAMOA	
51611162	GLENDALE	17.83	40112208	FAIRHAVEN	18.36
50606110	MANILA	13.59		SAMOA	
50606109	MANILA	2.00	40112206	FAIRHAVEN	0.57
40004156	MANILA	0.22		SAMOA	
40004154	MANILA	0.58	40112209	FAIRHAVEN	4.32
				SAMOA	
			40112108	FAIRHAVEN	39.04

40116201	SAMOA FAIRHAVEN	4.09	40111107	FAIRHAVEN SAMOA	30.33
40116101	FAIRHAVEN SAMOA	3.80	40103146	FAIRHAVEN SAMOA	68.55
40117114	FAIRHAVEN SAMOA	0.62	40103158	FAIRHAVEN SAMOA	22.16
40113104	FAIRHAVEN SAMOA	65.21	40103161	FAIRHAVEN SAMOA	35.27
40117115	FAIRHAVEN SAMOA	0.45	40103162	FAIRHAVEN SAMOA	3.45
40130110	FAIRHAVEN SAMOA	5.22	40117136	FAIRHAVEN SAMOA	0.66
40131306	FAIRHAVEN SAMOA	1.52	40131101	FAIRHAVEN SAMOA	20.26
40114105	FAIRHAVEN SAMOA	31.94	40131102	FAIRHAVEN SAMOA	3.88
40111215	FAIRHAVEN SAMOA	5.97	40103159	FAIRHAVEN SAMOA	25.74
40111213	FAIRHAVEN SAMOA	22.34	40103167	FAIRHAVEN SAMOA	1.45
40111214	FAIRHAVEN SAMOA	81.20	40103165	FAIRHAVEN	51.70
40103143	FAIRHAVEN SAMOA	8.41	52234212	WILLOW CREEK	0.98
40103156	FAIRHAVEN SAMOA	7.31	52227209	WILLOW CREEK	1.19
40103155	FAIRHAVEN SAMOA	16.70	52227211	WILLOW CREEK	0.52
40103148	FAIRHAVEN SAMOA	11.17	52227109	WILLOW CREEK	0.24
40114104	FAIRHAVEN SAMOA	311.91	52228112	WILLOW CREEK	0.15
40112112	FAIRHAVEN SAMOA	42.20	52217428	WILLOW CREEK	1.22
40130109	SAMOA	136.87	52249116	WILLOW CREEK	11.84
			52249117	WILLOW CREEK	16.15
			52220101	WILLOW CREEK	48.06

APPENDIX B

Data CD containing GIS information.