

Prepared for
Nevada Environmental Response Trust
Henderson, Nevada

Prepared by
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Project Number
1690029369-001

Date
January 12, 2024

COMMUNITY INVOLVEMENT PLAN, REVISION 4

NEVADA ENVIRONMENTAL RESPONSE TRUST SITE

HENDERSON, NEVADA

COMMUNITY INVOLVEMENT PLAN, REVISION 4

Nevada Environmental Response Trust Site (Former Tronox LLC Site) Henderson, Nevada

Nevada Environmental Response Trust (NERT) Representative Certification

I certify that this document and all attachments submitted to the Division were prepared at the request of, or under the direction or supervision of NERT. Based on my own involvement and/or my inquiry of the person or persons who manage the system(s) or those directly responsible for gathering the information or preparing the document, or the immediate supervisor of such person(s), the information submitted and provided herein is, to the best of my knowledge and belief, true, accurate, and complete in all material respects.

Office of the Nevada Environmental Response Trust

Le Petomane XXVII, Inc., not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee

Signature: Jay A. Steinberg, President Not Individually, but Solely
as President of the Trustee

Name: Jay A. Steinberg, not individually, but solely in his representative capacity as President of the Nevada Environmental Response Trust Trustee

Title: Solely as President and not individually

Company: Le Petomane XXVII, Inc., not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee

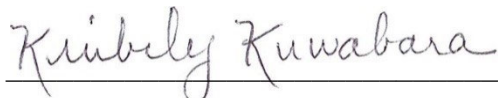
Date: January 12, 2024

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Nevada Environmental Response Trust Site (Former Tronox LLC Site) Henderson, Nevada

Responsible Certified Environmental Manager (CEM) for this project

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and, to the best of my knowledge, comply with all applicable federal, state and local statutes, regulations and ordinances.



January 12, 2024

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Date

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Community Involvement Plan, Revision 4
Nevada Environmental Response Trust Site
Henderson, Nevada

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1. OVERVIEW OF THE COMMUNITY INVOLVEMENT PLAN

This Community Involvement Plan (CIP) has been developed to facilitate communication between the Nevada Division of Environmental Protection (NDEP), the Nevada Environmental Response Trust (NERT or the "Trust"), and, most importantly, the community surrounding the NERT Site in Henderson, Nevada. This communication is important throughout the Trust's investigation of approximately 5,200 acres within the NERT Remedial Investigation (RI) Study Area (Figure 1) and eventual implementation of a final remedy to address certain impacts to the environment including elements to ensure the protection of the Las Vegas Wash, Lake Mead, and all downstream interests, to the extent such environmental impacts are associated with the NERT Site.

Three discrete areas, or Operable Units (OUs), have been established in areas including and adjacent to the NERT Site to facilitate the cleanup. The three OUs, which collectively make up the NERT RI Study Area, are defined as follows:

- Operable Unit 1 (OU-1) which consists of the NERT Site Study Area and includes property owned by NERT (the "NERT Site"), as well as three parcels transferred from NERT to TRECO, LLC (TRECO) in May 2020 and two parcels transferred from NERT to TRECO in June 2023¹;
- Operable Unit 2 (OU-2) comprises the southern portion of the NERT Off-Site Study Area and the Eastside Sub-Area; and
- Operable Unit 3 (OU-3) encompasses the northern portion of the NERT Off-Site Study Area, the Downgradient Study Area, and the Northeast Sub-Area.

Because the primary purpose of this CIP is to provide a framework for NDEP and the Trust to establish two-way communication with the community surrounding the NERT Site, this plan presents a summary of past environmental activity associated with the NERT Site; information regarding past and probable future community outreach associated with the NERT Site; information regarding accessing documents associated with the NERT Site; and contact information for NDEP, NERT, and certain community personnel to ensure all parties can be readily contacted (Appendix A). Consistent with the requirements that apply to the Trust, the activities proposed in this CIP address public involvement requirements consistent with the National Contingency Plan (NCP) for Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) sites consistent with 40 CFR 300.430(c)(2)(ii).

The Trust drew upon several information sources to develop this plan, including input received from the community, public information, and NERT files. The NDEP will oversee implementation of the community involvement activities outlined in this plan. The CIP will be utilized throughout completion of the final environmental remedy. The CIP will be updated as necessary and, at a minimum, every three years.

¹ The NERT Site and OU-1 occupied the same area prior to May 8, 2020 when Sale Parcels C, D, and H (see Figure 2) were conveyed to TRECO. Subsequently, Sale Parcels F and G (see Figure 2) were conveyed to TRECO on June 15, 2023. Within this CIP, the terms "NERT Site" or "Site" refer to property owned by the Trust after June 15, 2023. The terms "OU-1" and "NERT Site Study Area" refer to the area inclusive of the "NERT Site" as well as Sale Parcels C, D, F, G, and H.

The Trust's initial CIP was approved by NDEP in February 2014 and was developed solely for the NERT Site Study Area (at the time this area was referred to as the "NERT Site") (ENVIRON 2013). Revision 1 of the CIP was updated to include the NERT Phase 1 RI Study Area (which is now referred to as the NERT Site Study Area and the NERT Off-Site Study Area) and the Downgradient Study Area and was approved by NDEP in April 2016 (Ramboll Environ 2016a). Revision 2 of the CIP was updated to include the Eastside Study Area and references to the Phase 2 RI Study Area (which is geographically identical to the Phase 1 RI Study Area) and was approved by NDEP in May 2017 (Ramboll Environ 2017a). Revision 3 of the CIP (Ramboll 2020) was updated to include references to the three OUs, which is consistent with how the investigation areas are presented within the RI Report for OU-1 and OU-2 and the forthcoming RI Report for OU-3, and also incorporated updated references, contacts, and information. Consistent with the triennial requirement to update the CIP, this version of the CIP (Revision 4) has been updated to incorporate current references, contacts, and information.

2. SITE DESCRIPTION

2.1 NERT Site History

This section presents a summary of OU-1 history, which primarily consists of the NERT Site, going back to the initial industrial development in 1941. The information presented in this section was compiled from a review of several NERT Site reports, including ENVIRON 2011, Kleinfelder 1993, and Schumacher 1999.

OU-1 is located within the Black Mountain Industrial (BMI) complex, an industrial complex that has been operational since 1941. The BMI complex was originally sited and operated by the United States (U.S.) government as a magnesium production plant in support of the World War II effort. Following the war, a portion of the complex was leased by Western Electrochemical Company (WECCO). By August 1952, WECCO had purchased several portions of the BMI complex, including six of the large unit buildings, and produced manganese dioxide, sodium chlorate, and various perchlorates. Pursuant to a contract with the U.S. Navy in the 1950s, WECCO constructed and operated a plant to produce ammonium perchlorate on land purchased by the U.S. Navy. WECCO later merged with American Potash and Chemical Company (AP&CC) in 1956 and continued to operate the processes with the Navy's continued involvement in the ammonium perchlorate process. AP&CC purchased the ammonium perchlorate plant from the Navy in 1962 but continued to supply the Navy and its contractors material from the operating process. AP&CC merged with Kerr-McGee Corporation (Kerr-McGee) in 1967. As part of this merger, boron production processes in California were moved to Henderson. The boron operations, which included the production of elemental boron, boron trichloride and boron tribromide, began in the early 1970s with the boron tribromide process eventually being shut down and dismantled in 1994. Later, the sodium chlorate process was shut down in 1997 followed by shut down of the production of commercial ammonium perchlorate in 1998. The ammonium perchlorate production equipment was used to reclaim perchlorate from on-site materials until early 2002, when the equipment was permanently shut down.

In 2005, Kerr-McGee Chemical Corporation spun off the chemical business and changed the name to Tronox LLC (Tronox). Tronox subsequently filed for bankruptcy in 2009. The Trust was established through the resolution of the Tronox bankruptcy, and the Trust assumed ownership of the property that was previously owned by Tronox in February 2011. The exclusive purposes and functions of NERT, and the use of NERT's funds, are to own the former Kerr-McGee/Tronox property (the NERT Site) and remediate environmental impacts related to historic (pre-2011) operations; thus, NERT only conducts operations related to the ongoing remediation within the NERT RI Study Area. Tronox had a long-term lease for approximately 114 acres of the NERT Site, on which it continued to operate its chemical manufacturing business until August 2018 when Tronox's Henderson operations were purchased by EMD Acquisitions LLC (EMD) and EMD assumed the lease with the Trust. EMD currently produces manganese dioxide, boron trichloride, and elemental boron, and operates an Advanced Battery Material (ABM) production process within the leased area (Figure 2).

2.2 NERT RI Study Area Description and Location

Together the individual areas described below (OU-1 [primarily the NERT Site], OU-2, and OU-3) make up the NERT RI Study Area, which is shown in Figure 1. This document was developed for the community within and surrounding the NERT RI Study Area to define how and when communication about the project will take place.

2.2.1 Operable Unit 1 (primarily the NERT Site) and Vicinity

OU-1 is located approximately 13 miles southeast of Las Vegas, Nevada, in an unincorporated portion of Clark County. OU-1, which is approximately 340 acres, primarily consists of the NERT Site, which is approximately 266 acres. Major NERT Site features are shown in Figure 2. EMD has a long-term lease for approximately 114 acres of the NERT Site, which is currently used for manufacturing operations. The NERT Site occupies a generally rectangular area with certain interior portions of the rectangular area being owned and operated by other companies, specifically Lhoist and Western Area Power Administration (WAPA). The NERT Site also includes one non-contiguous parcel, referred to as Parcel E, located to the northeast of the main NERT Site area. OU-1 is surrounded by industrial, commercial, and residential properties (Figure 3).

As shown in Figure 4, facilities adjacent to OU-1 within the current BMI complex include TIMET to the east and Pioneer Americas LLC d/b/a Olin Chlor-Alkali Products (Olin) to the west. The Olin facility includes the former Stauffer Management Company, LLC/Syngenta Crop Protection, LLC (Stauffer/Syngenta) and Montrose Chemical Corporation of California (Montrose) sites. Basic Management, Inc. (BMI) property is located mainly to the northeast of the NERT Site, although a BMI-owned Corrective Action Management Unit (CAMU) is located immediately to the west. As shown in Figure 4, another former perchlorate manufacturing facility, Endeavour LLC (Endeavour; formerly American Pacific Corporation [AMPAC] and Pacific Engineering and Production Company of Nevada [PEPCON]), was located approximately 1.5 miles west-southwest of the NERT Site.

The nearest surface water to OU-1 is the Las Vegas Wash, which is located approximately 2.5 miles to the north-northeast. The Las Vegas Wash discharges to Lake Mead, which is located approximately 8.6 miles to the northeast and beyond Lake Las Vegas and is the primary water supply for residents and businesses within the NERT RI Study Area. The shallow groundwater under the NERT RI Study Area is not used for drinking water.

The nearest residential communities are located approximately 1,860 feet north of OU-1 and approximately 800 feet south (across Lake Mead Parkway) of OU-1 as shown in Figure 3. The nearest healthcare facility is located 0.65 miles to the east of OU-1.

2.2.2 Operable Unit 2

OU-2 is located immediately north of OU-1 and comprises the southern portion of the NERT Off-Site Study Area and the Eastside Sub-Area (Figure 1). OU-2 comprises approximately 2,645 acres. The NERT Off-Site Study Area was historically used for residential, commercial, and light industrial purposes, unaffiliated with operations at the NERT Site. Much of the Eastside Sub-Area was historically part of the BMI Common Areas, which have been the subject of numerous regulatory actions and environmental investigations overseen by NDEP and has received a no further action determination for the upper 10 feet of soil from NDEP. Much of this area is being redeveloped, primarily for residential use, as part of a Master-

Planned Community. As of the date of the most recently available aerial photo (August 2022), approximately 50% of the former BMI Common Areas within OU-2 has been redeveloped. By the time the development is complete, it is anticipated that as many as 13,250 planned residences, as well as parks, schools, and retail stores, will be constructed within much of the remaining vacant areas as part of the Cadence master-planned community (LandWell 2019).

2.2.3 Operable Unit 3

OU-3 is located immediately north of OU-2 and encompasses the northern portion of the NERT Off-Site Study Area, the Downgradient Study Area, and the Northeast Sub-Area (Figure 1). OU-3 comprises approximately 2,200 acres. The area extends along the Las Vegas Wash from near Duck Creek (west of the NERT Off-Site Study Area) to an area just west of Lake Las Vegas, as well as south to approximately Galleria Drive. Portions of the Downgradient Study Area within OU-3 include residential properties and uninhabited, recreational sections of the Las Vegas Wash (Clark County Wetlands Park, Henderson Bird Viewing Preserve, and Pabco Trail Head). The Northeast Sub-Area within OU-3 is located north of Galleria Drive and encompasses much of the area currently occupied by the Chimera Golf Club and surrounding residential community. Elements of the NERT final remedy will be critical in this OU as it represents the link between the contamination associated with the NERT Site and the Las Vegas Wash, Lake Mead, and all downstream interests.

2.3 NERT RI Study Area Investigations and Cleanup Activities

2.3.1 Historical Investigations and Cleanup Activities

Since the early 1970s, the NERT Site and surrounding area have been the subject of numerous regulatory actions, environmental investigations, and remedial actions. In response to the adoption of the 1972 Federal Water Pollution Control Act (the Clean Water Act [CWA]), Kerr-McGee modified its manufacturing processes and constructed lined surface impoundments to recycle and evaporate industrial wastewater (Kleinfelder 1993). The facility achieved zero-discharge status in 1976 regarding industrial wastewater management. A groundwater investigation was initiated by Kerr-McGee in July 1981 to comply with the federal Resource Conservation and Recovery Act (RCRA) standards for monitoring the existing on-site impoundments. Table 1 presents a summary of investigations and cleanup activities that followed the 1981 groundwater investigation, including the 2010-2011 soil removal program and the 2014-2022 NERT RI field investigations.

While the investigations performed to-date have found that soil and shallow groundwater within the NERT RI Study Area have been impacted as a result of former industrial operations at the NERT Site, it is the purpose of NERT's ongoing environmental efforts to remedy these impacts as further discussed below.

2.3.2 Planned Remedial Activities

RI results from OU-1 and OU-2 were presented in the RI Report for OU-1 and OU-2 (Revision 0), which was submitted to NDEP on July 9, 2021. NDEP's comments on Revision 0 were received on February 9, 2022. NERT submitted annotated responses to NDEP's comments (RTC) on June 9, 2022, and NDEP provided responses to the RTC on August 31, 2022. The RI Report for OU-1 and OU-2 (Revision 1) was submitted to NDEP on August 15, 2023 (Ramboll 2023b).

RI results from OU-3 will be presented in the forthcoming RI Report for OU-3, which is currently anticipated to be submitted to NDEP in 2024.

Human health and ecological risk assessment reports have been submitted to NDEP for OU-1 and OU-2, using data collected as part of the RI for OU-1 and OU-2. NERT's risk assessments in OU-1 and OU-2 concluded that exposure to the media investigated in OU-1 and OU-2 does not pose a risk to any receptor (e.g., residents, workers, birds, mammals, or plants) above the NDEP and United States Environmental Protection Agency (USEPA) cancer risk management range of 1×10^{-6} to 1×10^{-4} and the target hazard index (HI) of greater than one for noncarcinogenic health impacts, under the conditions and assumptions evaluated. Risk assessments for OU-3 will be submitted to NDEP in 2024 following submittal of the RI Report for OU-3.

NERT will prepare feasibility study (FS) reports that will assess the best tools and technologies for addressing contamination within the NERT RI Study Area. Several treatability and pilot studies are complete or currently underway, and the FSs will use the data collected in the RI and treatability/pilot studies, as well as the findings in the risk assessment reports, to evaluate viable remedial action alternatives. Currently, the FS report for OU-1 and OU-2 is anticipated to be submitted to NDEP in 2025, and the FS report for OU-3 is anticipated to be submitted to NDEP in 2026.

Following the FS, NERT and NDEP will prepare reports that explain the proposed remedy. The public will be able to review and comment on these reports. After addressing comments, NDEP will prepare documents that describe the final remedy, which are called the Records of Decision (RODs).

Following approval, NERT will implement the final remedy specified in the RODs. Depending on the remedy, this may involve engineering and design efforts, construction, and/or administrative actions.

2.3.3 On-Going Groundwater Treatment

The Trust currently operates a Groundwater Extraction and Treatment System (GWETS), which was designed as a removal action that targets the NERT plume of perchlorate and hexavalent chromium located within OU-1 and the portions of OU-2 and OU-3 west of Pabco Road. The GWETS primarily includes extraction of groundwater from three wellfields (the interceptor well field [IWF], the Athens Road well field [AWF], and the seep well field [SWF]) and treatment of the groundwater for hexavalent chromium (through a ferrous sulfate chemical precipitation treatment plant) and perchlorate (through biological FBRs and IX treatment plants). Following treatment, the extracted water is discharged to the Las Vegas Wash under a National Pollutant Discharge Elimination System (NPDES) permit. Groundwater monitoring and GWETS performance reports are submitted semi-annually to the NDEP. Current groundwater monitoring results indicate complete capture and ongoing reduction of the NERT perchlorate and hexavalent chromium plumes (Ramboll 2023c). Since

2000, perchlorate concentrations in Las Vegas Wash have declined by more than 90% due in large part to the operation of the GWETS.² Operation of the GWETS is ongoing.

As directed by NDEP, a Treatment System Extension (TSE) was constructed in 2022 through early 2023 to remove perchlorate and chromium from groundwater that migrates from the NERT Site and is captured by TIMET's GWETS. The captured groundwater is initially treated by TIMET for VOCs using an air stripper. The groundwater treated by TIMET is then pumped to the TSE located on the NERT Site, where it is treated for perchlorate and chromium. The treated groundwater is returned to TIMET for discharge into TIMET's recharge trenches, which are regulated by TIMET's underground injection control (UIC) permit.

² Two discrete sources of perchlorate contribute most of the perchlorate loading within the Las Vegas Wash. As of the date of this CIP revision, NERT has calculated its contribution to loading in the Las Vegas Wash at approximately 58% of the total perchlorate loading measured in the Wash from the Las Vegas Wasteway to Northshore Road, based on data presented in NERT's most recently published Annual Groundwater Monitoring and GWETS Performance Report (Ramboll 2023c).

3. COMMUNITY BACKGROUND

3.1 Community Profile

The NERT RI Study Area is located in and adjacent to Henderson, Nevada, a suburban city in Clark County, Nevada, United States, within the Las Vegas metropolitan area of the Mojave Desert. The NERT RI Study Area occupies the southeast end of the Las Vegas Valley. The total land area of Henderson is 107.33 square miles with a population density of 2,900 persons per square mile (US Census 2021).

Henderson is the second largest city in Nevada, after Las Vegas, with an estimated population of 311,250 in 2021. This represents a 26.0 percent increase over the 2010 Census population. Census 2021 data show that Henderson is 68.9 percent White, 9.1 percent Asian, 6.2 percent Black, 5.4 percent another single race, 8.9 percent two or more races, and 1.4 percent American Indian, Alaska Native, Native Hawaiian or Other Pacific native; 18.6 percent of the population classified itself as of Hispanic or Latino Origin. As of 2021, the median household income was \$77,924; 9.1 percent of the population lived below the poverty line; the unemployment rate was 8.5 percent; and 21.5 percent of the Henderson population was under 18, while 19.7 percent was 65 and older (US Census 2021).

Henderson has more than 8,300 businesses and more than 98,000 employees (Henderson 2023). In 2015, the largest individual employer was the City of Henderson with 2,924 employees. Four of the top ten employers were businesses in the tourism, gaming and entertainment industry. Two of the top ten employers were hospitals.

The public school system in Henderson is organized under the Clark County School District. Of the public schools serving Henderson, there are 29 elementary schools, 9 junior high/middle schools, 6 public high schools, 3 private high schools, and 9 area colleges and universities (Henderson 2023). There are also more than 20 charter and private schools. With specific relevance to the NERT RI Study Area, Edna F. Hinman Elementary School is located approximately three-quarters of a mile north/northeast of the NERT Site and in the direction of the Las Vegas Wash; Lake Mead Christian Academy is located along Lake Mead Parkway within the Eastside Study Area; and the Coral Academy of Science Las Vegas (CASLV), Eastgate Campus is located west of the BMI complex across Eastgate Rd.

There are 13 golf courses in Henderson, as well as 64 city parks on more than 1,306 acres (Henderson 2023). Henderson also boasts over 180+ miles of trails. All or portions of the following five parks are located within the NERT RI Study Area boundary: Weston Hills Park, Henderson Bird Viewing Preserve, Wells Park and Pool, Tuscany Park, and Cadence Central Park.

Lists including contact information of local, state, and federal-elected officials relevant to the NERT RI Study Area are provided in Appendices B, C, and D, respectively.

3.2 Community Concerns

The following presents common questions asked, and concerns raised by members of the community through interviews completed via community interview questionnaires and community interview meetings held on April 23, 2012, September 2, 2015, and June 21, 2017.

- What is the purpose and function of NERT?
- Is there risk to public health through exposure to water and soil in and around residential properties and water bodies? The public expressed concerns regarding impacted soil and groundwater areas which are now residential properties.
- What is the quality and safety of the residential drinking water?
- What are the USEPA drinking water standards and are they met in drinking water?
- What are the contaminants of concern?
- What are the potential risks of contaminant migration to the surrounding community?
- What is the fate and transport of chemicals from the NERT Site?
- What are the treatment processes employed by the existing groundwater treatment system?
- What is the project schedule, location of investigative work, and the plan for future investigation and remediation work?
- What is the cost of remediation and who is paying for the cleanup?
- What are the responsibilities of the Trust and NDEP and their oversight responsibilities?
- What chemicals may be released into the air from the larger BMI complex? The public expressed concerns regarding air quality.
- Is there potential deposition of airborne particulates from impacted soil on properties adjacent to the NERT Site? What are the health effects related to inhalation of dust from the NERT Site, both historically, due to the soil contamination, as well as currently, due to both the soil contamination that remains and air emissions from the BMI complex?
- What are the sources and levels of perchlorate and other contaminants in groundwater?
- What is the status of remediation of other properties within the BMI complex?
- Where can historical and current documentation related to the NERT RI Study Area and remediation activities be found?
- What are the impacts of the contamination on property values and requirements for real estate disclosure?

It is the intent of both NDEP and the Trust to address these questions and similar concerns raised by members of the community through the implementation of the CIP as detailed in Section 4. A timeline of the community engagement, as well as copies of the communications and information designed to answer questions such as these (e.g., slideshows from community meetings, fact sheets and frequently asked question [FAQ] documents) since 2012 are included within Appendix E and Attachments E-1 through E-14.

3.3 Communication with Other Interested Parties

The Trust and NDEP participate in calls and meetings with various water utility providers and other interested government entities generally quarterly and on an as-needed basis. The Trust will continue to work closely with members of key stakeholder groups, including the Central Arizona Project (CAP), Metropolitan Water District of Southern California (MWD), Southern Nevada Water Authority (SNWA), and the City of Henderson (COH). The Trust has also maintained open communications to interested parties such as the Colorado River Commission of Nevada (CRC) and the Henderson Industrial Community Advisory Panel (HICAP), which includes representatives of the community such as local residents, business owners, and a school principal, along with representatives of nearby industries, police, fire, community development, and the Chamber of Commerce.

4. THE COMMUNITY INVOLVEMENT PLAN

The overall goal of the CIP is to promote two-way communication between the community and the Trust and NDEP, and to provide opportunities for meaningful and active dialog between all parties during the cleanup process. NDEP, through the Trust, will implement the community involvement activities described below. The following plan is based on the results of the community interviews described earlier in Section 3.2 and included within Appendix E; it addresses each issue that was identified as being important to the community. The activities include:

- Designate a Community Involvement Coordinator (CIC).
- Prepare and distribute technical summary fact sheets.
- Prepare and distribute documents outlining responses to FAQs raised by the community.
- Maintain a mailing list for the NERT RI Study Area.
- Establish and maintain information repositories.
- Establish and maintain the Administrative Record.
- Hold public meetings or public hearings.
- Contact with local media outlets.
- Revise the CIP.

4.1 Community Involvement Activities

The following highlights community involvement activities associated with this plan.

Designation of CIC

Objective: The CIC is the primary liaison between the community and the NDEP and the Trust, and will ensure prompt, accurate, and consistent responses and information dissemination about the NERT RI Study Area. In those instances where the CIC may be unable to provide adequate information (such as on technical issues), inquiries will be directed to the appropriate Trust contact.

Method: The CIC to be appointed upon approval of this CIP will be James (JD) Dotchin, Chief Environmental Programs, Bureau of Industrial Site Clean-up (BISC) of the NDEP. He will work closely with the Trust and its consultants.

Timing: James (JD) Dotchin has officially been designated as the CIC since December 2013, when the Trust's initial CIP was prepared. James (JD) Dotchin will continue as the designated CIC unless specified otherwise by NDEP.

Prepare and distribute technical summary fact sheets and responses to community FAQs

Objective: To provide citizens with current, accurate, easy-to-read, easy-to-understand information about the NERT RI Study Area and the status of NERT's investigation and remediation activities.

Method: Fact sheets and responses to community FAQs will be mailed to parties on the mailing list (see below). In addition, copies will be available on the website, www.NERT-

Trust.com, for the NERT RI Study Area. The community mailing documents will be available in both English and Spanish.

Timing: NDEP, through the Trust, will prepare and distribute fact sheets at least once per year or more frequently, if appropriate, to communicate activities within the NERT RI Study Area. Responses to community FAQs (such as the examples provided in Section 3.2) will be provided with the fact sheets in distributions following public meetings or hearings (see below).

Maintain a mailing list for the NERT RI Study Area

Objective: To facilitate the distribution of site-specific information to everyone who needs or wants to be kept informed about the NERT RI Study Area.

Method: NDEP, through the Trust, will create a mailing list that includes all residential addresses or owners of residential property (excluding international owners of residential property) located within a 1-mile radius of the NERT RI Study Area, as well as other appropriate recipients and interested parties (e.g., regulators, individuals living outside the 1-mile radius who subscribed to NERT's mailing list).

Timing: NDEP, through the Trust, will review and update the mailing list annually prior to the annual fact sheet distribution.

Establish and maintain information repositories

Objective: To provide a convenient location where residents can obtain copies of official documents and other pertinent information about the NERT RI Study Area, the status of NERT's environmental investigations, and its progress toward remediation.

Method and Timing: Two on-line information repositories have been established that relate to the NERT Site.

- A website can be found at www.NERT-Trust.com. This website is maintained by NERT and contains site-specific information for the NERT RI Study Area. General updates are posted annually or as project milestones are reached, and new NERT Site-related documents are posted within 30 days of receipt of NDEP approval.
- A website can be found at <https://ndep.nv.gov/environmental-cleanup/black-mountain-industrial-bmi-complex/nevada-environmental-response-trust-nert>. This website is maintained by NDEP and contains site-specific information for the NERT RI Study Area and includes links to other cleanup efforts being conducted by others including those adjacent to and surround the NERT Site.

These on-line information repositories can be accessed, free of charge, using computers located at all Henderson Library locations, including the James I. Gibson Library on Lake Mead Parkway. See Appendix F for a list of Henderson Library locations.

Establish and maintain the Administrative Record

Objective: To provide residents with documents and information used by the Trust and the NDEP in reaching decisions about the NERT RI Study Area and its cleanup.

Method: The Administrative Record for the NERT Site predates the formation of the Trust and was established in the 1980s. The Administrative Record is maintained by NDEP to reflect documents approved by the agency pertaining to the Site. The Administrative Record

can be viewed in-person at the NDEP office in Las Vegas. See Appendix F for NDEP's Las Vegas office address.

Timing: NERT's Administrative Record is updated by NDEP on an on-going basis.

Hold public meetings or public hearings

Objective: To update the community on NERT RI Study Area developments and address community questions, concerns, ideas and comments. As required by Title 40 of the Code of Federal Regulations (CFR) Part 300, public meetings may be held at project milestones such as publication of the RI and FS reports and a public hearing will be held to discuss the proposed plan. Public meetings, which are less formal than public hearings, do not require a record of proceedings.

Method: NDEP, through the Trust, will schedule, prepare for, and attend all announced meetings or hearings. The CIC and other appropriate NDEP staff and representatives of the Trust will attend. At least 30-day notice of the scheduled meeting or hearing will be provided to the community through community mailings and media outlets. Meetings and hearings will be held at times and places which, to the maximum extent feasible, facilitate attendance by the public.³ As with the previous community interview and public meetings, more than one meeting or hearing may be held to facilitate public participation. The public meetings and hearings will be presented for both English and Spanish-language community members.

Timing: Community interview and public meetings have been held on April 23, 2012, September 2, 2015, and June 21, 2017 at the Henderson Convention Center, 200 South Water Street, Henderson, Nevada. Future public meetings will be held as needed and when project milestones are met. NDEP is planning the next public meeting after the RI Report for OU-1 and OU-2 is approved by NDEP. Another public meeting is anticipated to be held after NDEP approval of the RI Report for OU-3. A public hearing will be held after issuance of the proposed plan, a report that explains the proposed remedy for all three OUs to solicit comments on the proposed plan.

Contact with local media outlets

Objective: To provide information on public meetings or hearings to the public via local media outlets.

Method: NDEP, through the Trust, will provide public meeting or hearing notifications to select local media and service outlets from those listed in Appendix G, either by mail or email to the individual contact or media outlet.

Timing: Information will be provided to media outlets by NDEP, through the Trust, at least 30 days prior to scheduled public meetings or hearings.

Revise the CIP

Objective: To identify and address community needs, issues, or concerns regarding the NERT RI Study Area or the cleanup remedy that are identified after the publication of this CIP.

Method: A Revised CIP will update the information presented in the previous version of the CIP.

³ Due to the COVID-19 pandemic, public meetings might be conducted virtually if determined appropriate by NDEP.

Timing: The Trust, in cooperation with NDEP, will revise the CIP as community input warrants or at least every three years until the completion of corrective actions at the NERT RI Study Area.

4.2 History of Community Involvement

Tronox CIP Implementation

Tronox implemented a previous CIP for the property now known as the NERT Site beginning in approximately September 2007 (Tronox 2007), and the NDEP has maintained a public website (<https://ndep.nv.gov/environmental-cleanup/black-mountain-industrial-bmi-complex/nevada-environmental-response-trust-nerf>) with various site-related documents and related information since 2006.

NERT CIP Implementation

Consistent with NDEP and USEPA guidelines, NERT initiated efforts in 2012 to develop a CIP during its initial phases of the RI/FS process. The initial CIP was implemented for the NERT Site by the Trust on behalf of NDEP in 2013. Since that time, NERT has continued to update and engage with the community via fact sheet updates, community interview questionnaires, and community meetings, as described within Appendix E. A timeline of the CIP's implementation, as well as copies of the communication and information conveyed via community mailings and community meetings is included in Appendix E.

5. REFERENCES

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Community Involvement Plan, Revision 4
Nevada Environmental Response Trust Site
Henderson, Nevada

TABLE

Table 1. Summary of Site Investigations and Cleanup Activities

Date	Event Description
December 1983	NDEP requested that Kerr-McGee investigate the extent of chromium impacts in the groundwater beneath the facility.
September 1986	A Consent Order between Kerr-McGee and NDEP stipulated additional groundwater characterization and the implementation of remedial activities to address chromium in the groundwater.
Mid-1987	Monitoring wells, groundwater interceptor wells, a groundwater treatment system for chromium reduction, and two treated-groundwater injection trenches were installed and the treatment of hexavalent chromium in groundwater began. This treatment is on-going today, although the injection trenches are not currently utilized.
April 1991	Kerr-McGee was one of six companies that entered into a Consent Agreement with the NDEP to conduct environmental studies to assess site-specific environmental conditions, which are the result of past and present industrial operations and waste disposal practices. The six companies (Chemstar, Inc.; Kerr-McGee; Montrose; Pioneer Chlor Alkali Company, Inc.; Stauffer; and TIMET) that entered into the Consent Agreement included those past or present entities that conducted business within the BMI complex. The Consent Agreement specified that, among other things, the companies identify, document or address soil, surface water, groundwater or air impacts and document measures that have been taken to address environmental impacts from their respective sites.
April 1993	Kerr-McGee submitted the Phase I Environmental Conditions Assessment (Phase I ECA) to NDEP to be compliant with the 1991 Consent Agreement. The purpose of the report was to identify and document site-specific environmental impacts resulting from past or present industrial activities. The Phase I ECA included an assessment of the geologic and hydrologic setting, as well as then-current and historical manufacturing activities.
1994	The NDEP issued a letter of understanding (LOU) that identified 69 data gap areas that needed additional information, either in the form of additional document research or field sampling. Subsequent to the issuance of the LOU, an additional potential source area, the former U.S. Vanadium site, was identified during planning for the 2009 Phase B Source Investigation. Although not formally designated as an LOU, the U.S. Vanadium site is referred to as LOU 70.

Date	Event Description
Mid to late 1990s	Kerr-McGee collected additional data to fill the LOU-identified data gaps. This was done by investigating past operator records as well as through field sampling. Results of this work are described in the Phase II Written Response to the LOU (1996), the Phase II ECA (1997), and the Supplemental Phase II ECA (2001), the latter two of which were reports describing the results of field sampling of groundwater and soils. Through this effort, potential environmental impacts associated with the 69 LOU data gap areas were evaluated.
1997	Perchlorate was discovered in the vicinity of the Las Vegas Wash. As a result, this aspect of the Phase I ECA was placed on a remedial fast-track.
Late 1990s	An impact characterization and perchlorate treatment methodology evaluation was performed. Concurrently, a seep water collection system was installed adjacent to the Las Vegas Wash to mitigate the discharge of perchlorate, and a temporary ion exchange (IX) treatment system was installed. The perchlorate groundwater treatment process began operation in November 1999.
1999	Kerr-McGee and NDEP entered into a 1999 Consent Agreement, which defined response requirements and looked forward to a treatment process that would replace the temporary IX. After considerable research and process development, fluidized bed reactors (FBRs) were decided on as the most effective technology for treatment of perchlorate.
2001	Kerr-McGee and NDEP entered into an October 2001 Administrative Order on Consent (AOC) defining the current response requirements, which included additional extraction well systems and the construction of the on-site FBR groundwater treatment system. These systems were installed by Kerr-McGee.
2002	Pursuant to this AOC, Kerr-McGee completed the existing off-site Athens Road Well Field (AWF), the off-site Seep Well Field (SWF), and the associated on-site FBR groundwater treatment system. The AWF, completed in 2002 and added to in 2006 and 2014, consists of a series of 14 groundwater extraction wells, 12 of which were installed in pairs, that span roughly 1,200 feet of the alluvial paleochannels and pump from the shallow zone at a combined rate of approximately 450 gallons per minute (gpm). The SWF includes 9 extraction wells located immediately south of Las Vegas Wash, which currently pump from the shallow zone at a combined rate of approximately 750 gpm. The groundwater extraction and treatment system (GWETS) has operated almost continuously at the NERT Site since 2002.

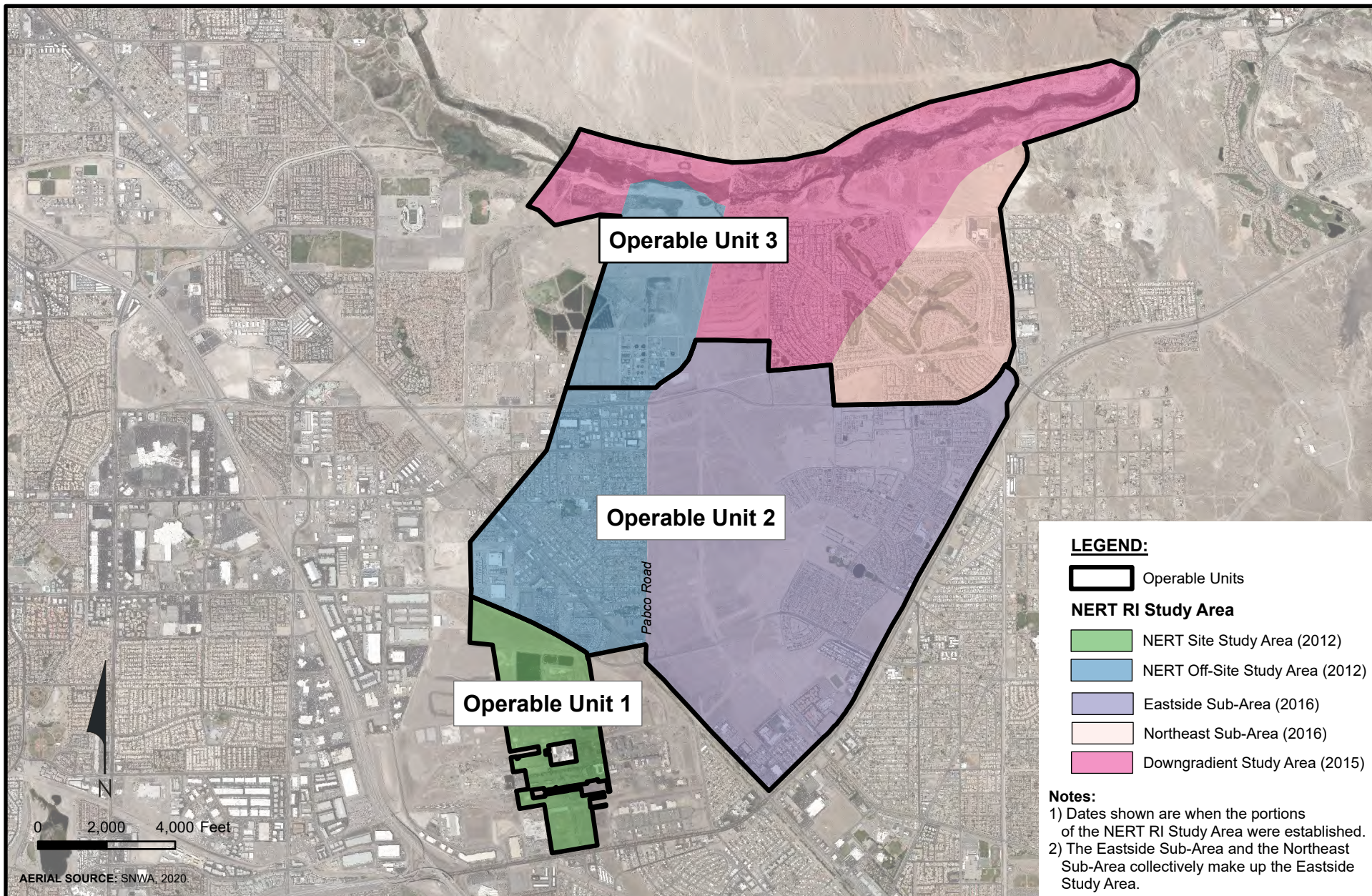
Date	Event Description
2004	A list of site-related chemicals was developed based upon then-current and historic operations information and on-site soil and groundwater investigation analytical results. This list included, but was not limited to, raw materials, process chemicals, intermediates, and products of all current and previous manufacturers at the NERT Site.
2005	A Conceptual Site Model (CSM) was prepared for the NERT Site, which consolidated and evaluated information about known and potential environmental impacts.
2006 and 2009	Based on data gaps identified in the investigation results and CSM, Tronox implemented two soil sampling programs (known as Phase A and B Source Investigations) that were completed in 2006 and 2009, respectively. These investigations identified a number of constituents in excess of Nevada Basic Comparison Level (BCL) criteria within the upper 10 feet of soil, including dioxins/furans toxic equivalents (TEQ), hexachlorobenzene, other semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), asbestos, metals, organochlorine pesticides (OCPs), and perchlorate.
2009	<p>In an Order dated December 14, 2009, NDEP directed Tronox to remove all contaminated soil (within the vertical interval extending to a depth of 10 feet below ground surface) from the NERT Site by the end of 2010. For the purposes of soil removal activities, the main contaminated portions of the NERT Site were divided into the five separate remediation zones listed below:</p> <ul style="list-style-type: none"> RZ-A: the southern portion of the NERT Site RZ-B: the area around the Unit buildings RZ-C: the ammonia perchlorate production area, Koch Materials area, pond and diesel storage tank area, and manganese tailings area RZ-D: the former Trade Effluent ponds and ammonium perchlorate pad/drum recycling area (including a waste landfill where hazardous wastes may have been disposed) RZ-E: the Beta Ditch <p>Soil sampling in RZ-A did not identify soils exceeding NDEP cleanup criteria so there was no excavation performed.</p>
2010-2011	The May 28, 2010 Remedial Action Work Plan by Tronox proposed the strategy for excavating chemically-impacted soil within the upper 10 feet of soil in areas RZ-B through RZ-E, to the extent such soils were accessible. These remediation activities commenced in 2010 and were completed in 2011 by the Trust.

Date	Event Description
2012	<p>As of January 1, 2012, approximately 850,000 cubic yards of contaminated soil and related materials had been excavated. An interim soil removal action completion report was prepared for all five remediation zones in January 2012 and revised in September 2012. Certain impacted soils within the remediation zones, which could not be excavated due to physical constraints or other access issues were designated as Excavation Control Areas (ECAs) and are addressed through the Site Management Plan (SMP), which is updated annually. The current version of the SMP is Revision 8, dated January 27, 2023 (Ramboll 2023a). The SMP describes procedures to address the known remaining environmental conditions at the NERT Site, as well as contingency actions to be taken if previously unknown environmental conditions are encountered.</p>
2014-present (3Q 2023)	<p>As described below, the NERT RI field investigations were completed between October 2014 and October 2022. The NERT RI Study Area was divided into three OUs (Figure 1) for the purposes of the remedial investigation and determination of future remedial action.</p> <p>The first phase of the RI (within the NERT Site Study Area [in OU-1] and NERT Off-Site Study Area [in both OU-2 and OU-3]) was completed between the October 2014 and May 2015. A technical memorandum summarizing the findings of this initial investigation was submitted to NDEP in May 2016 (Ramboll Environ 2016b) and outlined additional work as part of the Phase 2 RI investigation. The Phase 2 RI field investigations (including 15 Phase 2 RI Modifications) were conducted between February 2017 and April 2019. The Phase 2 RI activities included additional investigation to resolve new soil and groundwater data gaps identified within the NERT Site (in OU-1) and the NERT Off-Site Study Area (in both OU-2 and OU-3).</p> <p>The Downgradient Study Area (in OU-3) was established in 2015. Field investigations within the Downgradient Study Area were conducted between December 2015 and August 2019, under the direction of NDEP.</p> <p>In 2016, NDEP directed the Trust to investigate conditions in the Eastside Sub-Area to evaluate the nature and extent of impacts in the subsurface due to the migration of perchlorate and chlorate from the NERT Site. The scope of work for the Phase 3 RI was presented in the Remedial Investigation/Feasibility Study (RI/FS) Work Plan Addendum for the Phase 3 Remedial Investigation (Phase 3 RI Work Plan) within the Eastside Study Area (Ramboll</p>

Date	Event Description
	<p>Environ 2017b). The Phase 3 RI Work Plan expanded the boundaries of the NERT RI, adding the Eastside Study Area to the existing NERT Site Study Area, the NERT Off-Site Study Area, and the Downgradient Study Area (collectively, "NERT RI Study Area"). The Phase 3 RI field investigations (including 15 Phase 3 RI Modifications) were conducted between December 2017 and October 2022.</p> <p>RI results from OU-1 and OU-2 were presented in the RI Report for OU-1 and OU-2 (Revision 0), which was submitted to NDEP on July 9, 2021. NDEP's comments on Revision 0 were received on February 9, 2022. NERT submitted annotated responses to NDEP's comments (RTC) on June 9, 2022, and NDEP provided responses to the RTC on August 31, 2022. The RI Report for OU-1 and OU-2 (Revision 1) was submitted to NDEP on August 15, 2023 (Ramboll 2023b).</p> <p>RI results from OU-3 will be presented in the forthcoming RI Report for OU-3, which is currently anticipated to be submitted to NDEP in 2024.</p>

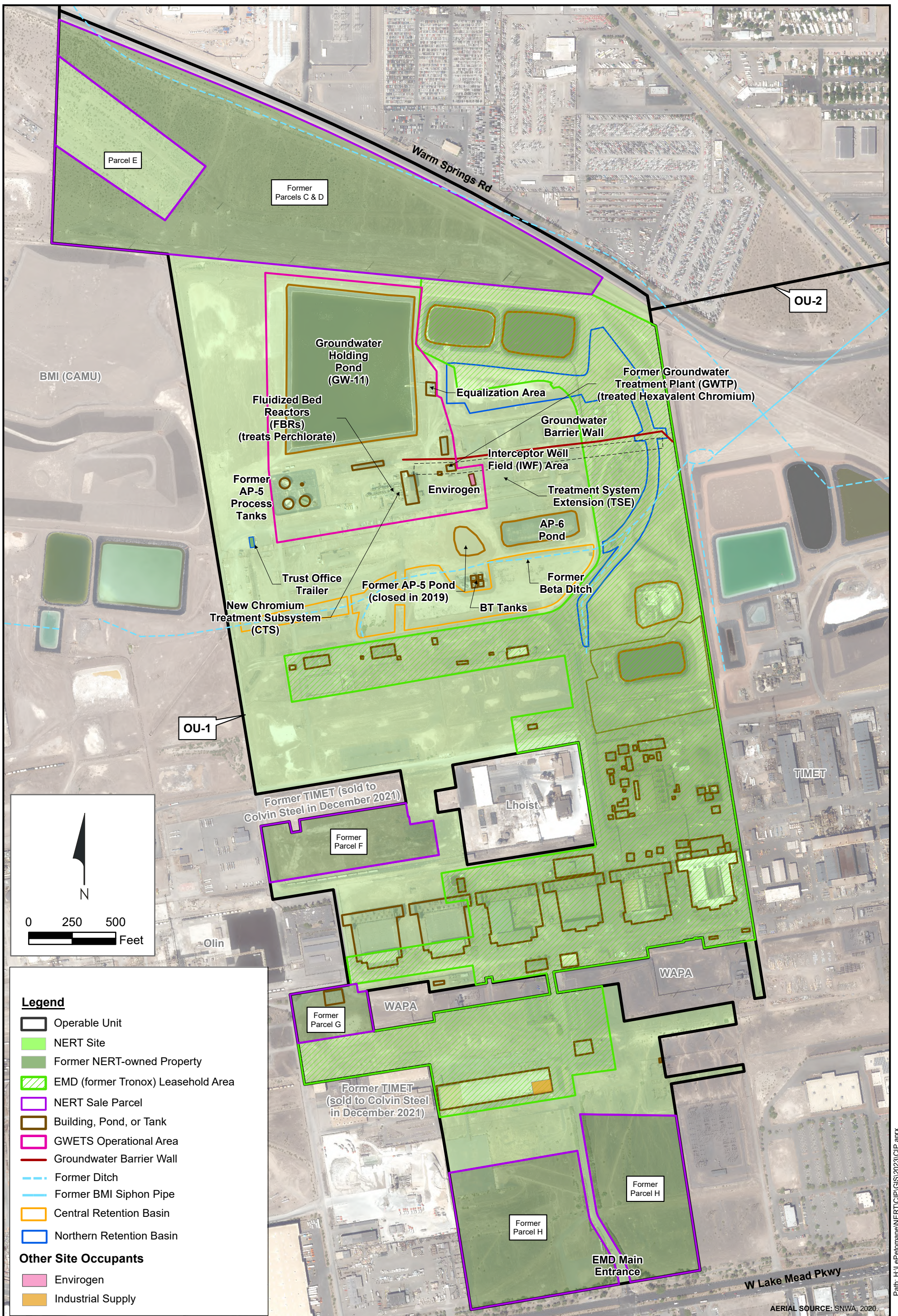
Notes: Historical activities within this table are based on information within ENVIRON 2011, Kleinfelder 1993, and Schumacher 1999.

FIGURES



NERT RI Study Area Operable Units
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure
1

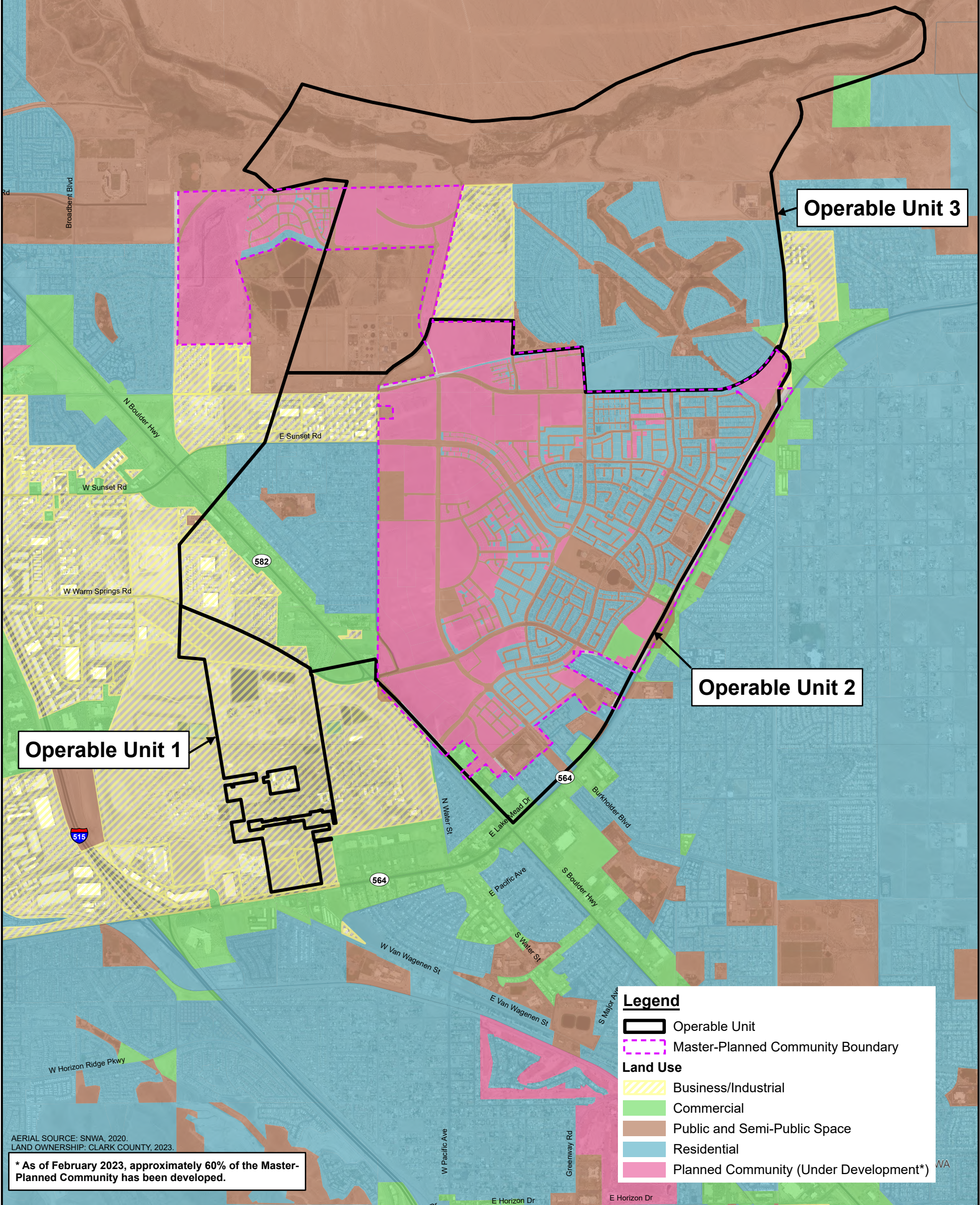
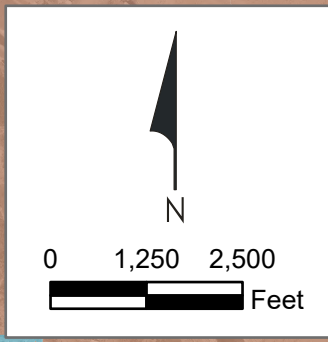


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Site Features
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
2



AERIAL SOURCE: SNWA, 2020.
LAND OWNERSHIP: CLARK COUNTY, 2023.

* As of February 2023, approximately 60% of the Master-Planned Community has been developed.

Legend

- Operable Unit
- Master-Planned Community Boundary

Land Use

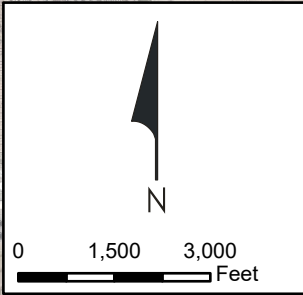
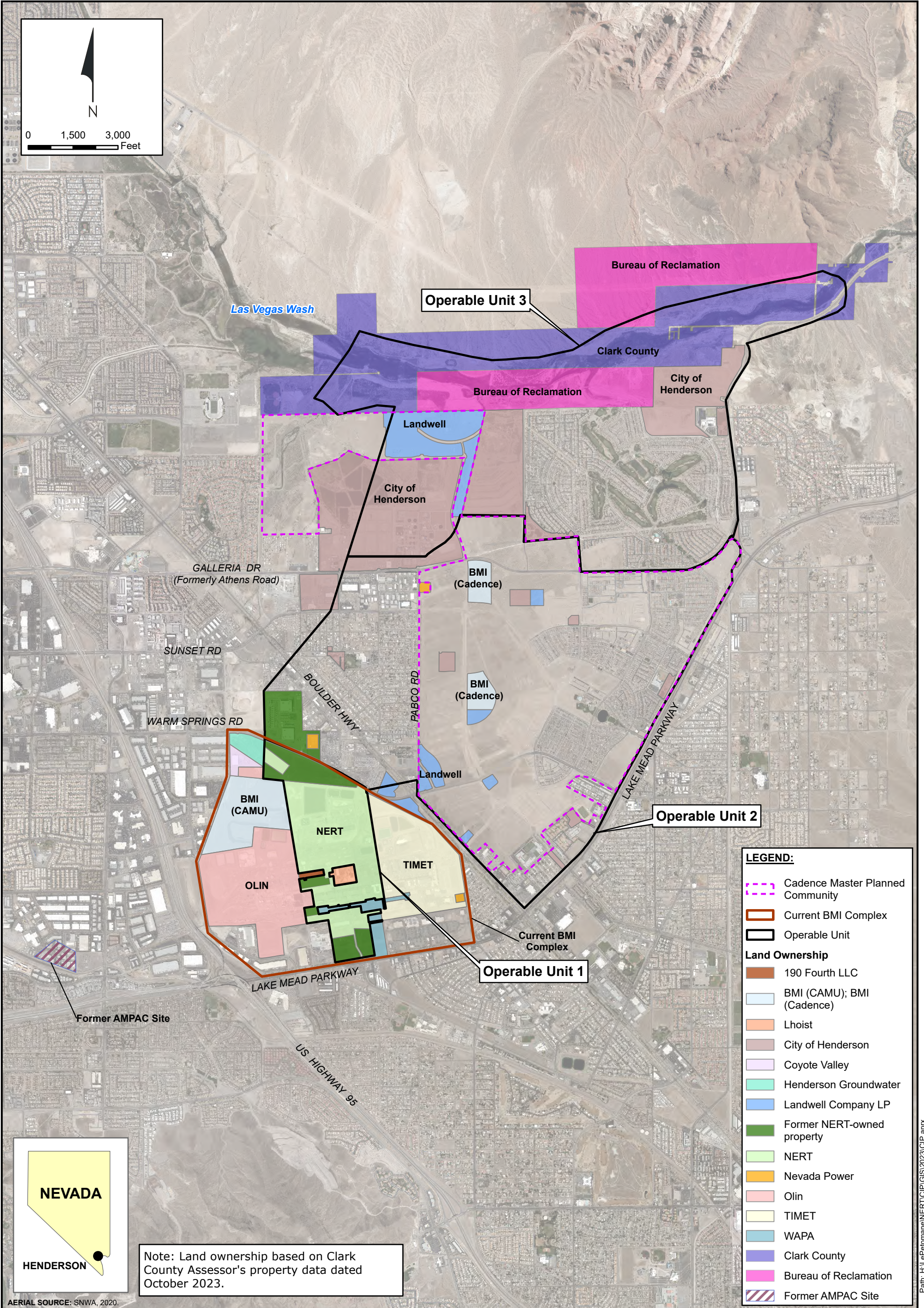
- Business/Industrial
- Commercial
- Public and Semi-Public Space
- Residential
- Planned Community (Under Development*)



Site Vicinity Land Use Map
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
3

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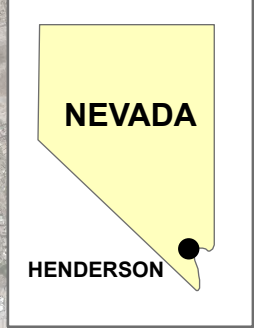


LEGEND:

- Cadence Master Planned Community
- Current BMI Complex
- Operable Unit

Land Ownership

- 190 Fourth LLC
- BMI (CAMU); BMI (Cadence)
- Lhoist
- City of Henderson
- Coyote Valley
- Henderson Groundwater
- Landwell Company LP
- Former NERT-owned property
- NERT
- Nevada Power
- Olin
- TIMET
- WAPA
- Clark County
- Bureau of Reclamation
- Former AMPAC Site



Note: Land ownership based on Clark County Assessor's property data dated October 2023.

AERIAL SOURCE: SNWA, 2020

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Major Land Ownership in the RI Study Area
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
4

Community Involvement Plan, Revision 4
Nevada Environmental Response Trust Site
Henderson, Nevada

APPENDIX A
NDEP AND NERT CONTACTS

Appendix A
NDEP and NERT Contacts

NDEP

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Nevada Division of Environmental Protection
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Public Information Officer
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Kaylynn Perez
Public Information Officer
Nevada Division of Environmental Protection
901 S. Stewart Street, Suite 4001
Carson City, NV 89701
Phone: (775) 684-2712

NERT

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35 East Wacker Drive, Suite 690
Chicago, Illinois 60601
Phone: (312) 505-2688

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in his representative capacity as Vice
President of the Nevada Environmental
Response Trust Trustee
35 East Wacker Drive, Suite 690
Chicago, Illinois 60601
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Stephen R. Clough, P.G., Remediation
Director
Nevada Environmental Response Trust
510 S. Fourth Street
Henderson, NV 89015
Phone: (702) 686-9611

Brian Loffman, Senior Program Manager,
Le Petomane, Inc.
510 S. Fourth Street
Henderson, NV 89015
Phone: (702) 960-4301

Community Involvement Plan, Revision 4
Nevada Environmental Response Trust Site
Henderson, Nevada

APPENDIX B
LOCAL OFFICIALS

Appendix B
Local Officials

Mayor Michelle Romero
Telephone (702) 267-2406

City Council Members
Council Ward I – Jim Seebock
Council Ward II – Dan Shaw
Council Ward III – Carrie Cox
Council Ward IV – Dan H. Stewart
City Council Offices (702) 267-2085

Southern Nevada Health District
280 South Decatur Boulevard
Las Vegas, NV 89107
Telephone (702) 759-1000

Fire Department
Telephone (702) 267-2222

Police Department
223 Lead Street
Henderson, NV 89015
Telephone (702) 267-5000

Community Involvement Plan, Revision 4
Nevada Environmental Response Trust Site
Henderson, Nevada

APPENDIX C STATE OFFICIALS

Appendix C State Officials

Governor Joe Lombardo

R (4-year term expires in 2027)
555 E. Washington Ave., Suite 5100
Las Vegas, NV 89101
(702) 486-2500 (o)
(702) 486-2505 (f)

State Capitol Building
101 N. Carson Street
Carson City, NV 89701
(775) 684-5670 (o)
(775) 684-5683 (f)
www.gov.nv.gov

Lt. Governor Stavros Anthony

R (4-year term expires in 2027)
555 E. Washington Ave., Suite 5500
Las Vegas, NV 89101
(702) 486-2400 (o)
(702) 486-2404 (f)

State Capitol Building
101 N. Carson Street, Suite 2
Carson City, NV 89701
(775) 684-7111 (o)
(775) 684-7110 (f)
<http://ltgov.nv.gov/>

Clark County Commissioner Michael Naft

D–District A (4-year term expires in 2025)
500 Grand Central Parkway, 6th Floor
Las Vegas, NV 89106
(702) 455-3500 (o)
(702) 383-6041 (f)
ccdista@clarkcountynv.gov
<https://www.clarkcountynv.gov/county-commissioners/districta/Pages/default.aspx>

Clark County Commissioner James B. Gibson

D–District G (4-year term expires in 2027)
500 Grand Central Parkway, 6th Floor
Las Vegas, NV 89155
(702) 455-3500 (o)
(702) 383-6041 (f)
ccdistg@clarkcountynv.gov
<https://www.clarkcountynv.gov/county-commissioners/districtd/Pages/default.aspx>

Clark County Commissioner Tick Segerblom

D–District E (4-year term expires in 2027)
500 Grand Central Parkway, 6th Floor
Las Vegas, NV 89106
(702) 455-3500 (o)
(702) 383-6041 (f)
ccdistrcte@clarkcountynv.gov
<https://www.clarkcountynv.gov/county-commissioners/districtg/Pages/default.aspx>

Community Involvement Plan, Revision 4
Nevada Environmental Response Trust Site
Henderson, Nevada

APPENDIX D
FEDERAL ELECTED OFFICIALS

Appendix D
Federal Elected Officials

U.S. Senator Catherine Cortez Masto

D–Nevada (6-year term expires in 2029)
Lloyd George Federal Building
333 Las Vegas Blvd. S., Suite 8016
Las Vegas, NV 89101
(702) 388-5020 (o)
(702) 388-5030 (f)

516 Hart Senate Office Building
Washington, DC 20510
(202) 224-3542
cortezmastose.nate.gov

U.S. Senator Jacky Rosen

D–Nevada (6-year term expires in 2025)

Lloyd George Federal Building
333 Las Vegas Blvd. S., Suite 8203
Las Vegas, NV 89101
(702) 388-0205

144 Russell Senate Building
Washington, DC 20510
(202) 224-6244
rosen.senate.gov

U.S. Representative Dina Titus

D–Nevada District 1 (2-year term expires in 2025)
495 South Main Street, 3rd Floor
Las Vegas, NV 89101
(702) 220-9823

2464 Rayburn House Office Building
Washington, DC 20515
(202) 225-5965
titus.house.gov

U.S. Representative Mark Amodei

R–Nevada District 2 (2-year term expires in 2025)
5310 Kietzke Lane, Suite 103
Las Vegas, NV 89511
(775) 686-5760 (o)
(775) 686-5711 (f)

104 Cannon House Office Building
Washington, DC 20515
(202) 225-6155 (o)
(202) 225-5679 (f)

U.S. Representative Susie Lee

D–Nevada District 3 (2-year term expires in 2025)
8872 S. Eastern Ave., Suite 210/220
Las Vegas, NV 89123
(702) 963-9336

522 Cannon House Office Building
Washington, DC 20515
(202) 225-3252
susielee.house.gov

U.S. Representative Steven Horsford

D–Nevada District 4 (2-year term expires in 2025)
2250 North Las Vegas Blvd, Suite 500
North Las Vegas, NV 89030
(702) 963-9360

1330 Longworth House Office Building
Washington, DC 20515
(202) 225-9894 (o)
(202) 225-9783 (f)
horsford.house.gov

APPENDIX E

COMMUNITY COMMUNICATIONS

A timeline of previous communication is included below. Copies of the referenced items are included as one figure and attachments to this appendix.

Figure E-1	Community Involvement Mailing List Distribution Areas
Attachment E-1	March 2012 Community Information Documents Provided in Mailing and Newspaper Announcements
Attachment E-2	April 23, 2012 Community Interview Meeting Presentations and Sign-In Sheets
Attachment E-3	May 2014 Community Information Documents Provided in Mailing
Attachment E-4	January 2015 Community Information Documents Provided in Mailing
Attachment E-5	July 2015 Community Information Documents Provided in Mailing and Newspaper Announcements
Attachment E-6	September 2, 2015 Community Interview Meeting Presentations and Sign-In Sheets
Attachment E-7	January 2016 Community Information Documents Provided in Mailing
Attachment E-8	April 2017 Community Information Documents Provided in Mailing
Attachment E-9	June 21, 2017 Community Interview Meeting Presentation and Sign-In Sheets
Attachment E-10	November 2018 Community Information Documents Provided in Mailing
Attachment E-11	December 2019 Community Information Documents Provided in Mailing
Attachment E-12	January 2021 Community Information Documents Provided in Mailing
Attachment E-13	February 2022 Community Information Documents Provided in Mailing
Attachment E-14	January 2023 Community Information Documents Provided in Mailing

Community Communications Timeline

NERT initiated efforts in 2012 to develop a CIP during its initial phases of the RI/FS process.

NDEP has held several community meetings that were open to the public for interested community residents and local authorities, distributed fact sheets and FAQ documents related to the NERT Site and the NERT RI Study Area and disseminated information regarding the NERT Site to the local newspapers, as outlined below.

- **2012:** Community input was collected from returned community interview questionnaires provided in a mailing sent to residential addresses and property owners located within a 1-mile radius of the NERT Site Study Area, as well as from questions asked during two Community Interview Meetings held on April 23, 2012 with one held during the late afternoon and one in the evening. The fact sheet and questionnaire from the March 2012 mailing, as well as the newspaper announcements for the Community Interview Meeting are provided in Attachment E-1. The 2012 distribution area, as well as all subsequent mailing distribution areas, are shown on Figure E-1. The Community Interview Meeting presentations and sign-in sheets for the two April 23, 2012 meetings are included in Attachment E-2.
- **2013:** Based on input from community members, the initial CIP, which was developed solely for the NERT Site Study Area (then referred to as the NERT Site), was prepared by the Trust in December 2013 and approved by NDEP in February 2014.
- **2014:** An updated fact sheet, including a cover letter from NDEP, were mailed to community members located within a 1-mile radius of the NERT Site Study Area in May 2014. This cover letter and fact sheet are included in Attachment E-3.
- **2015:** An updated fact sheet, including a cover letter from NDEP, were mailed to community members located within a 1-mile radius of the NERT Site Study Area in January 2015. This cover letter and fact sheet are included in Attachment E-4.

In July 2015¹, an updated fact sheet with a community interview questionnaire, cover letter from NDEP, and Community Information & Interview Mailing notification flyer were mailed to community members and property owners located within a 1-mile radius of the NERT RI Study Area (which did not include the Eastside Study Area at the time). The documents in the July 2015 mailing are included in Attachment E-5 and the distribution area is shown on Figure E-1. The distribution boundary was expanded in some areas to include whole neighborhoods if a portion of the neighborhood fell within the 1-mile radius. The documents were mailed to more than 8,800 addresses including local residents and property owners. Notification of the meeting was also presented in a newspaper and two local inserts included with the newspaper in the distribution areas (Attachment E-5). NDEP held two Community Interview Meetings on September 2, 2015, one during the day and one in the

¹ The community members located within a 1-mile radius of the NERT Site and who received the January 2015 fact sheet were not included in the July 2015 mailing.

evening. The Community Interview Meeting presentations and sign-in sheets for the two September 2, 2015 meetings are included in Attachment E-6.

- **2016:** An updated fact sheet, a FAQ document, and a cover letter from NDEP were compiled by NDEP for distribution to the community in January 2016. The FAQ responded to questions asked by the community during the September 2015 meetings as well as questions asked in returned community interview questionnaires (see Section 3.3). The components of this mailing are included in Attachment E-7.

A revised CIP (Revision 1) was issued in March 2016 (and approved by NDEP on April 27, 2016). The revised document expanded the area covered by the CIP to include the NERT Off-Site Study Area and the Downgradient Study Area.

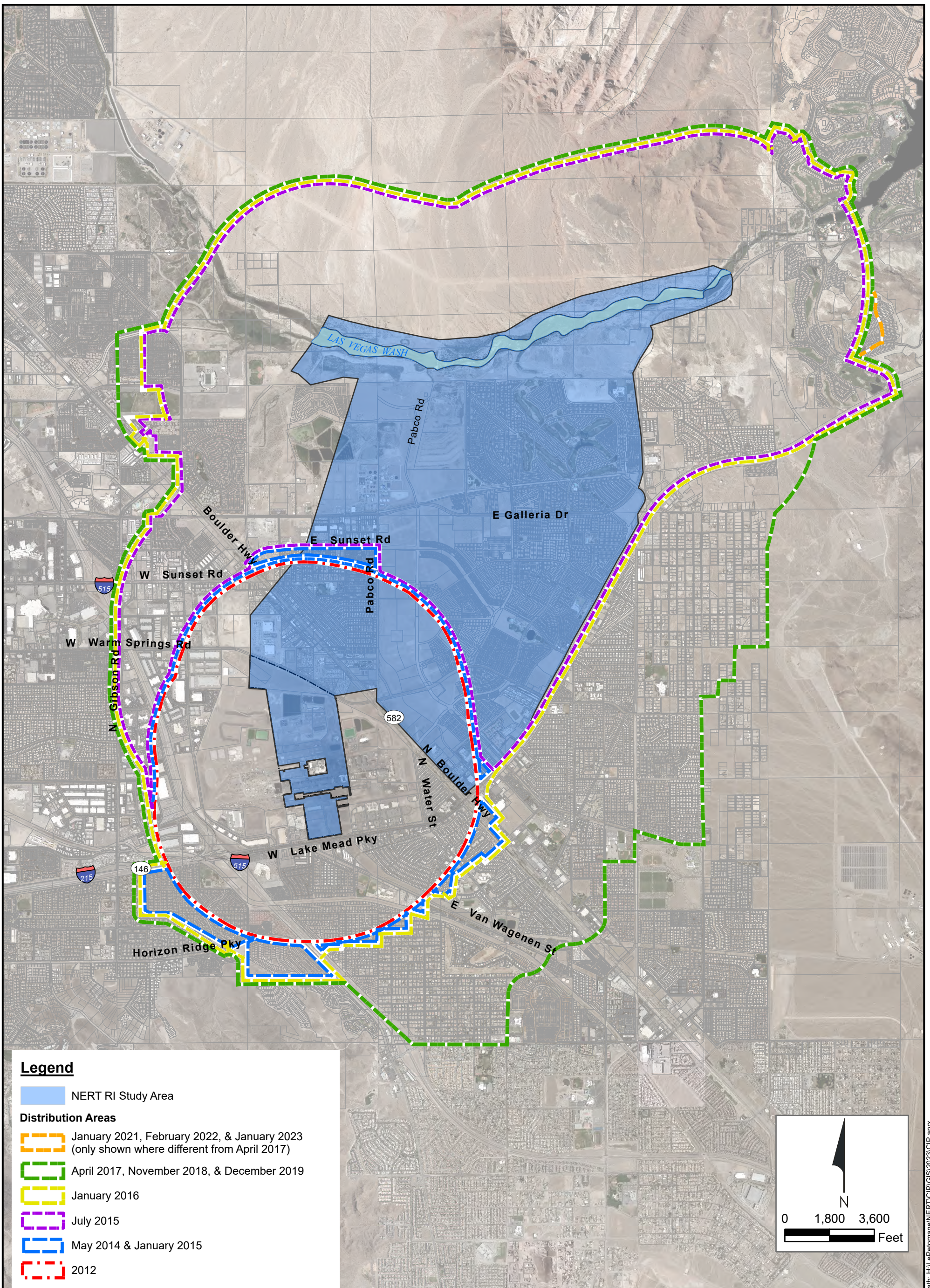
- **2017:** A revised CIP (Revision 2) was issued in April 2017 (and approved by NDEP on May 5, 2017). The revised document expanded the area covered by the CIP to include the Eastside Study Area. In April 2017, an updated fact sheet, community interview questionnaire, cover letter from NDEP, and Community Information & Interview Mailing notification flyer for the June 21, 2017 meetings were mailed to residential addresses, as well as owners of residential properties, located within a 1-mile radius of the NERT RI Study Area (including the Eastside Study Area). The components of this mailing are included in Attachment E-8 and the distribution area is shown on Figure E-1.

NDEP held two Community Interview Meetings on June 21, 2017, one during the late afternoon and one in the evening. The Community Interview Meeting presentations and sign-in sheets for the two June 21, 2017 meetings are included in Attachment E-9.

- **2018:** An updated fact sheet, a response to FAQs, and a cover letter from NDEP were compiled by NDEP for distribution to the community in November 2018. The components of this mailing are included in Attachment E-10.
- **2019:** An updated fact sheet and cover letter from NDEP were mailed to community members located within a 1-mile radius of the NERT RI Study Area in December 2019. The content of the mailing is included in Attachment E-11.
- **2020:** A 2020 fact sheet and cover letter from NDEP were mailed to community members located within a 1-mile radius of the NERT RI Study Area in January 2021. The content of the mailing is included in Attachment E-12.
- **2021:** A 2021 fact sheet and cover letter from NDEP were mailed to community members located within a 1-mile radius of the NERT RI Study Area in February 2022. The content of the mailing is included in Attachment E-13.
- **2022:** A 2022 fact sheet and cover letter from NDEP were mailed to community members located within a 1-mile radius of the NERT RI Study Area in January 2023. The content of the mailing is included in Attachment E-14.

Community Involvement Plan, Revision 4
Nevada Environmental Response Trust Site
Henderson, Nevada

FIGURE E-1

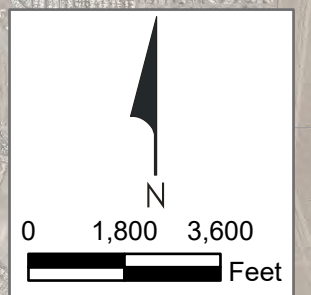


Legend

NERT RI Study Area

Distribution Areas

- January 2021, February 2022, & January 2023
(only shown where different from April 2017)
- April 2017, November 2018, & December 2019
- January 2016
- July 2015
- May 2014 & January 2015
- 2012



Community Involvement Mailing List Distribution Areas
Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
E-1

Drafter: RS/JC

Date: 2023/12/14

Contract Number: 169002 9369

Approved by:

Revised:

Path: H:\LeFolomane\NERT\CIP\GIS\2023\CIP.aprx

Community Involvement Plan, Revision 4
Nevada Environmental Response Trust Site
Henderson, Nevada

**ATTACHMENT E-1
MARCH 2012 COMMUNITY INFORMATION DOCUMENTS PROVIDED IN
MAILING AND NEWSPAPER ANNOUNCEMENTS**



STATE OF NEVADA

Department of Conservation & Natural Resources

DIVISION OF ENVIRONMENTAL PROTECTION

Brian Sandoval, Governor

Leo M. Drozdoff, P.E., Director

Colleen Cripps, Ph.D., Administrator

March 21, 2012

Re: Community Information and Interview Meetings
Nevada Environmental Response Trust Site (formerly Tronox Site and Kerr-McGee Site)

Dear Resident:


You are receiving this correspondence because you live in the area surrounding the Nevada Environmental Response Trust Site (formerly known as the Tronox Site and Kerr-McGee Site), 560 West Lake Mead Parkway, which is located in an unincorporated section of Clark County, Nevada and is surrounded by the City of Henderson. Attached is a Fact Sheet with some background information on the Site. In connection with this Site, both the Nevada Environmental Response Trust and the Nevada Division of Environmental Protection invite you to attend one of the Community Information and Interview Meetings scheduled for April 23, 2012. In order to best accommodate the schedules of community residents, the first meeting will begin at 4:00 pm and a second meeting will begin at 7:00 pm at the Henderson Convention Center, 200 S. Water Street, Henderson, Nevada 89015.

At these Community Information and Interview Meetings, we will have a brief presentation regarding the background and history of the Nevada Environmental Response Trust Site including the most recent developments by which ownership of the Site changed from Tronox LLC to the Trust. We will also discuss the most recent soil and groundwater cleanup activities that have occurred at the Site, as well as the cleanup activities we expect to occur in the near future. Lastly, we will solicit input from members of the community, like you, about any concerns you may have regarding the Site in addition to how and when you would like to receive future information and updates about the Site. After the presentation, there will be an open forum for additional community input.

If you have any questions regarding the Community Information and Interview Meetings or the Site in general, please to contact Shannon Harbour of the Nevada Division of Environmental Protection, at (775) 687-9332 or sharbour@ndep.nv.gov. Documents related to the Nevada Environmental Response Trust Site can be viewed during normal business hours at NDEP's Las Vegas office, 2030 E. Flamingo Rd. Suite 230, Las Vegas NV 89119. File reviews generally require one business day notice. Please contact Christa Smaling at 702-486-2850 x 254 or csmaling@ndep.nv.gov to schedule a file review. In addition, significant milestone documents may be viewed online at <http://ndep.nv.gov/bmi/tronox.htm>.

Thank you for your time and we look forward to seeing you at one of the Community Information and Interview Meetings on April 23, 2012 scheduled at 4:00 pm and again at 7:00 pm at the Henderson Convention Center. If you are unable to attend either of the Community Information and Interview Meetings, please consider filling out the enclosed Community Interview Questionnaire and returning it to us in the enclosed self-addressed stamped envelope as we greatly value your input as we continue the cleanup process at the Nevada Environmental Response Trust Site.

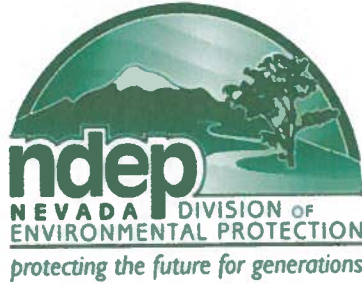
Sincerely,



Greg Lovato, P.E.
Bureau Chief
Bureau of Corrective Actions
Nevada Division of Environmental Protection
Fax: (775) 687-8335

Enclosures





STATE OF NEVADA

Department of Conservation & Natural Resources

DIVISION OF ENVIRONMENTAL PROTECTION

901 S. Stewart Street, Suite 4001 Carson City, Nevada 89701 (775) 687-4670 FAX 687-5856

Nevada Department of Conservation and Natural Resources, Division of Environmental Protection (NDEP) and the Nevada Environmental Response Trust announce:

Community Information & Interview Meeting

Discussing the Nevada Environmental Response Trust Site
(formerly known as the Tronox Site and Kerr McGee Site)

Date of Meeting: April 23, 2012
Times: 4:00 pm and 7:00 pm
Meeting Location: Henderson Convention Center
200 South Water Street
Henderson, Nevada 89015

Below is an agenda for both of the scheduled meetings regarding the NV Environmental Response Trust Site (located at 560 West Lake Mead Parkway, Henderson, NV):

- Presentation: Site background and history
- Presentation: Current and future soil and groundwater response activities
- Public Comment and Discussion: Community concerns, information needs, and desired involvement in the cleanup process
- Open Forum: At the close of the presentation and discussion, there will be an open forum for additional community input.

Documents related to the Nevada Environmental Response Trust Site may be viewed by appointment during normal business hours at the Nevada Division of Environmental Protection's Las Vegas office at 2030 East Flamingo Road Suite 230, Las Vegas NV 89119. In addition, significant milestone documents may be viewed online at <http://ndep.nv.gov/bmi/tronox.htm>.

For further information, contact:

Shannon Harbour
NDEP Carson City Office
(775) 687-9332
sharbour@ndep.nv.gov

To schedule a file review, contact:

Christa Smaling
NDEP Las Vegas Office
(702) 486-2850 x 254
csmaling@ndep.nv.gov

Members of the news media or for press inquiries, please contact the NDEP Public Information Officer, Vinson Guthreau at 775-687-9395



STATE OF NEVADA
Department of Conservation & Natural Resources
DIVISION OF ENVIRONMENTAL PROTECTION

Brian Sandoval, Governor
Leo M. Drozdoff, P.E., Director
Colleen Cripps, Ph.D., Administrator

March 30, 2012

Re: Community Information and Interview Meetings: Missing Fact Sheet
Nevada Environmental Response Trust Site (formerly Tronox Site and Kerr-McGee Site)

Dear Resident:

It has come to my attention that a mailing you received last week that did not contain the enclosed fact sheet referenced in the letter. This mailing was sent on behalf of the Nevada Division of Environmental Protection (NDEP), the state agency with regulatory oversight of site assessment and corrective action activities at the Nevada Environmental Response Trust Site (formerly Tronox and Kerr McGee Site) in the Black Mountain Industrial Complex. I apologize for this oversight. The fact sheet is enclosed with this letter.

If you have any questions regarding the Community Information and Interview Meetings or the Site in general, please to contact Shannon Harbour of the Nevada Division of Environmental Protection, at (775) 687-9332 or sharbour@ndep.nv.gov. Documents related to the Nevada Environmental Response Trust Site can be viewed during normal business hours at NDEP's Las Vegas office, 2030 E. Flamingo Rd. Suite 230, Las Vegas NV 89119. File reviews generally require one business day notice. Please contact Christa Smaling at 702-486-2850 x 254 or csmaling@ndep.nv.gov to schedule a file review. In addition, significant milestone documents may be viewed online at <http://ndep.nv.gov/bmi/tronox.htm>.

Thank you for your time and we look forward to seeing you at one of the Community Information and Interview Meetings on April 23, 2012 scheduled at 4:00 pm and again at 7:00 pm at the Henderson Convention Center.

Sincerely,

Greg Lovato, P.E.
Bureau Chief
Bureau of Corrective Actions
Nevada Division of Environmental Protection

Enclosure



Nevada Environmental Response Trust Site Fact Sheet for Summer 2011

The Nevada Environmental Response Trust (“NERT”) Site, which was previously known as the Tronox LLC (“Tronox”), formerly Kerr-McGee Chemical LLC, Henderson Facility, is located within the Black Mountain Industrial (“BMI”) complex near Henderson, Nevada. The Site is approximately 450 acres in size and is located 13 miles southeast of Las Vegas, Nevada in an unincorporated section of Clark County, Nevada. It is completely surrounded by the incorporated area comprising the City of Henderson (“COH”).

Site History

The BMI complex has been the site of industrial operations since 1942 and was originally sited and operated by the U.S. government as a magnesium production plant in support of the World War II effort.

Following the war, a portion of the complex was leased by Western Electrochemical Company (“WECCO”). By August 1952, WECCO had purchased several portions of the complex, including six of the large unit buildings, and produced manganese dioxide, sodium chlorate and various perchlorates. In addition, in the early 1950s, pursuant to a contract with the U.S. Navy, WECCO constructed and operated a plant to produce ammonium perchlorate on land purchased by the Navy. In 1956, WECCO merged with American Potash and Chemical Company (“AP&CC”) and continued to operate the processes, with the Navy’s continued involvement in the ammonium perchlorate process. In 1962, AP&CC purchased the ammonium perchlorate plant from the Navy, but continued to supply the Navy, and its contractors, material from the operating process. AP&CC merged with Kerr-McGee Corporation (“Kerr-McGee”) in 1967. This merger included boron production processes in California, which were moved to Henderson and began operation in the early 1970s. These included elemental boron, boron trichloride and boron tribromide. In 1994, the boron tribromide process was shut down and dismantled. In 1997, the sodium chlorate process was shut down and in 1998, production of commercial ammonium perchlorate ended as well. The ammonium



Air Photo of Tronox LLC Site



Site Location

perchlorate production equipment was used to reclaim perchlorate from on-site materials until early 2002, when the equipment was permanently shut down. In 2005, Kerr-McGee Chemical LLC’s name was changed to Tronox LLC, and in 2009 Tronox filed for bankruptcy. The NERT was established as part of Tronox’s reorganization and in February, 2011 became the owner of the property that was previously owned by Tronox. Tronox leases back a portion of the site from the NERT for production of manganese dioxide, boron trichloride and elemental boron. Tronox has also recently renovated Unit Building 4 for its Advanced Battery Material (“ABM”) production process, which is anticipated to begin operation in the near future.

Site Investigation and Remediation

A groundwater investigation was initiated by Tronox in July 1981 to comply with the federal Resource Conservation and Recovery Act (“RCRA”) standards for monitoring the existing on-site impoundments. In December, 1983, the Nevada Division of Environmental Protection (“NDEP”) requested that Tronox investigate the extent of chromium impact in the groundwater beneath the facility.

A Consent Order between Tronox and NDEP, prepared in September 1986, required additional groundwater characterization and the implementation of response activities to address chromium in the groundwater. As a result of the 1986 Consent Order, monitor wells, groundwater interceptor wells, a groundwater treatment system for chromium reduction, and two treated-groundwater injection trenches were installed, and the treatment of groundwater began in mid-1987. This treatment is on-going today although the injection trenches are not currently utilized.

In April 1991, Tronox was one of six companies that entered into a Consent Agreement with NDEP to conduct environmental studies to assess site-specific environmental conditions resulting from past and present industrial operations and waste disposal practices. The six companies that entered into the Consent Agreement included those past or present entities that conducted business within the BMI complex. The Consent Agreement specified that, among other things, the companies identify, document or address soil, surface water, groundwater or air impacts and document measures that have been taken to address environmental impacts from their respective sites.

In April 1993, in compliance with the 1991 Consent Agreement, Tronox submitted the Phase I Environmental Conditions Assessment (“ECA”) to NDEP. The purpose of the ECA was to identify and document site-specific environmental impacts resulting from past or present industrial activities. The Phase I ECA included an assessment of the geologic and hydrologic setting, as well as historical manufacturing activities. In 1994, NDEP issued a letter of understanding (“LOU”) that identified 69 data gap areas which needed additional information, either in the form of additional document research or field sampling of site conditions.

During the mid to late 1990s, Tronox collected additional data to fill the data gaps identified in the LOU. This was done by investigating past operator records as well as through field sampling. Results of this work are described in a Phase II Written Response to the LOU, a Phase II ECA, and a Supplemental Phase II ECA, the latter two of which were reports describing the results of field sampling of groundwater and soils. Through this effort, potential environmental impacts associated with the 69 LOU areas were evaluated.

In 1997, perchlorate was discovered in the Las Vegas Wash vicinity and this aspect of the ECA was placed on a response fast-track. Impact characterization and treatment methodology evaluation were on-going in the late 1990s, along with the installation of a seep water collection system adjacent to the Las Vegas Wash to mitigate the discharge of perchlorate and a temporary ion exchange (“IX”) treatment system to treat perchlorate-impacted groundwater.

This environmental response process began operation in November 1999. Tronox and NDEP entered into a 1999 Consent Agreement, which defined additional response requirements and looked forward to a treatment process that would replace the

temporary IX treatment system. After considerable research and process development, a replacement treatment technology was developed. In October, 2001 Tronox and NDEP entered into an Administrative Order on Consent (“AOC”) that defined the replacement treatment process, which required Tronox to install additional extraction well systems and construct an on-site groundwater treatment facility. The current groundwater treatment facility includes granular activated, biological fluidized bed reactors, as well as a ferrous sulfate system. Following treatment, all extracted water is discharged to Las Vegas Wash under a National Pollutant Discharge Elimination System permit. A semi-annual remedial performance report covering performance data for both the chromium and perchlorate remediation programs during the period from July, 2010 through December, 2010 was submitted to NDEP in March, 2011. An Annual Remedial Performance Report was submitted to NDEP on August 26, 2011.

In 2004, a list of Site-related chemicals was developed based upon investigations associated with operations at the Site. This list included raw materials, process chemicals, and intermediates, as well as products of all current and previous manufacturers at the Site. In 2005, a Conceptual Site Model (“CSM”) was prepared for the Site, which consolidated information gathered regarding environmental impact, both known and potential.

Tronox implemented two soil sampling programs (known as Phase A and B Source Investigations) that were completed in 2006 and 2009, respectively. These investigations identified a number of constituents in excess of state Basic Comparison Level (“BCL”) criteria within the upper 10 feet of soil, including dioxin TEQ, hexachlorobenzene, other semivolatile organic compounds, PCBs, asbestos, metals, organochlorine pesticides, and perchlorate. In an order dated December 14, 2009, NDEP directed Tronox to remove all soil containing chemicals of potential concern in excess of worker BCLs (or modified risk-based goals agreed upon by NDEP) from the site by the end of 2010. NERT is not regulated under any of the Kerr-McGee/Tronox consent agreements or administrative orders on consent, and is completing the soil removal program consistent with an Interim Consent Agreement.

For the purposes of soil remediation activities, the main contaminated portions of the Site were divided into the five separate remediation zones (“RZ”) listed below:

- RZ-A: an area on the southern portion of the Site
- RZ-B: the area around the Unit buildings
- RZ-C: the ammonia perchlorate production area, Koch Materials area, pond and diesel storage tank area, and manganese tailings area
- RZ-D: the Trade Effluent ponds and ammonium perchlorate pad/drum recycling area (including the hazardous waste landfill)
- RZ-E: the Beta Ditch

Soil sampling in RZ-A did not identify soils exceeding NDEP cleanup criteria, and therefore excavation activities were not planned in this area. A Human Health Risk Assessment prepared for RZ-A concluded that COPC concentrations remaining in soil did not result in unacceptable risks and has been approved by NDEP. Tronox’s consultant prepared a workplan describing a strategy for excavating chemically impacted soil within the upper 10 feet of soil in areas RZ-B through E, to the extent such

soils were accessible. These response activities commenced during 2010. As of November 7, 2011, approximately 930,000 tons of contaminated soil had been excavated. Upon completion of these removal activities, a completion report will be prepared for all five remediation zones. Certain impacted soils within the remediation zones that cannot be excavated due to physical constraints or other access issues will be addressed through institutional controls, such as environmental covenants that will run with the land.

A project milestone schedule covering the overall progress of current and future site activities is available on the NDEP web site (<http://ndep.nv.gov/bmi/tronox.htm>).

**COMMUNITY INTERVIEW QUESTIONNAIRE
NEVADA ENVIRONMENTAL RESPONSE TRUST SITE
HENDERSON, NEVADA**

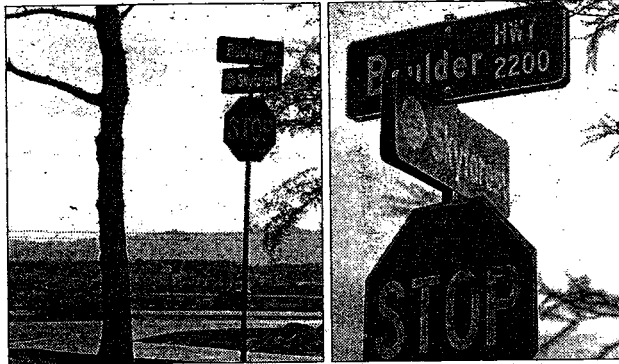
1. Would you like to receive additional information regarding the Nevada Environmental Response Trust Site or the remediation project described in the Fact Sheet? If so, how would you prefer to receive such information?

2. What information regarding the Site or the remediation project would you most like to know?

3. In your opinion, what information is most important and/or relevant to the community with regard to the Site?

4. You are free to respond anonymously, however, if you would like to be contacted directly, please provide your name, address, phone number and e-mail address, if applicable.

Suicide suspected in death of man hit and killed on roadway



Buford Davis | THP

A 59-year-old man was struck and killed, while walking in the middle of North Boulder Highway near Skyforest Drive in Henderson on April 18.

By **Carla J. Zvosec**
Editor

A 59-year-old man who was walking in the middle lane of North Boulder Highway with his back turned to traffic was struck and killed in the early morning hours of Wednesday, April 18.

The accident occurred at about 1:10 a.m. when a 2005 Pontiac Grand Am, which was

headed southbound on North Boulder Highway, hit the man. The car was driven by Sasha Harris, 30, and the accident happened near the intersection of Skyforest Drive.

The man, pronounced dead at the scene, was not attempting to cross the road; investigators are following up on information that he may have been trying to commit suicide. Earlier in the day, he apparently had

been talking to some people in the area of the accident about committing suicide. Investigators are trying to locate those individuals to help verify the information.

In a secondary collision, a 1978 Ford pickup driven by Johnny Herrera, of Spokane, Wash., a witness to the pedestrian accident, was struck. Herrera stopped to help at the initial accident scene, when his truck was hit by an unknown silver vehicle that fled the scene.

The southbound lanes of Boulder Highway were closed for about three hours, while the investigation was conducted. The preliminary investigation into the pedestrian accident indicates that, regarding Harris, drugs, alcohol or speed did not play a role in the accident.

The victim's name will be released by the Clark County Coroner's office after his family has been notified.

So far this year, Henderson has seen seven fatalities that occurred in four fatal accidents.

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COMPLIMENTARY ADMISSION!
HendersonLive.com | 267-2171

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By **Carla J. Zvosec**

Editor

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HENDERSON HERITAGE PARADE & FESTIVAL SATURDAY APRIL 21, 2012

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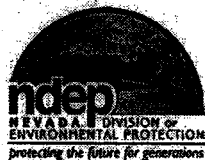
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STATE OF NEVADA

Department of Conservation & Natural Resources

DIVISION OF ENVIRONMENTAL PROTECTION

901 S. Stewart Street, Suite 4001 Carson City, Nevada 89701 (775) 687-4670 FAX 687-5856

Nevada Department of Conservation and Natural Resources, Division of Environmental Protection (NDEP) and the Nevada Environmental Response Trust announce:

Community Information & Interview Meeting

Discussing the Nevada Environmental Response Trust Site
(formerly known as the Tronox Site and Kerr McGee Site)

Date of Meeting: April 23, 2012
Times: 4:00 pm and 7:00 pm
Meeting Location: Henderson Convention Center
200 South Water Street Henderson, Nevada 89015

Below is an agenda for both of the scheduled meetings regarding the NV Environmental Response Trust Site (located at 560 West Lake Mead Parkway, Henderson, NV):

- Presentation: Site background and history
- Presentation: Current and future soil and groundwater response activities
- Public Comment and Discussion: Community concerns, information needs, and desired involvement in the cleanup process
- Open Forum: At the close of the presentation and discussion, there will be an open forum for additional community input.

Documents related to the Nevada Environmental Response Trust Site may be viewed by appointment during normal business hours at the Nevada Division of Environmental Protection's Las Vegas office at 2030 East Flamingo Road Suite 230, Las Vegas NV 89119. In addition, significant milestone documents may be viewed online at <http://ndep.nv.gov/bmi/tronox.htm>.

For further information, contact:
Shannon Harbour
NDEP Carson City Office
(775) 687-9332
sharhour@ndep.nv.gov

To schedule a file review, contact:
Christa Smaling
NDEP Las Vegas Office
(702) 486-2850 x 254
csmaling@ndep.nv.gov

Members of the news media or for press inquiries, please contact the NDEP Public Information Officer, Vinson Guthreau at 775-687-9395



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Vol. 3, No. 13

www.hendersonpress.com

March 29-April 4, 2012 FREE

Snow's job

Former RTC chief takes over as city manager in April

By Buford Davis
Reporter

Jacob Snow is set to become Henderson's next city manager after the City Council approved his proposed contract on March 20.

"Every government I know of is in the business of having to make do with less," said Snow shortly after the contract approval. "Those aren't the more pleasant discussions to

have or actions to take, but I think it's easy to manage when times are good. When times are tough, like we have now, that's when we really need to get creative."

Snow's three-year contract will pay him \$225,000 annually, which has been the salary of the city manager since 2007. Snow will not receive a car allowance or longevity

—continued on PAGE 6



Buford Davis | THP

Jacob Snow sits with his wife, Cheryl, waiting approval of his contract to become Henderson's next city manager. Snow is set to be sworn in on April 2.

Obama pushes solar at Boulder City stop



Courtesy of Sempra U.S. Gas & Power

President Barack Obama's three-hour stop in Southern Nevada on March 21 was part of pitch for clean-energy production. The president's energy policies have been the focus of Republican criticism in the face of high fuel prices.

By Buford Davis
Reporter

President Barack Obama highlighted his administration's clean-energy initiatives at a brief stop in Southern Nevada on Wednesday, March 21.

"If some politicians have their way, there won't be any more public investments in solar energy," Obama told a

modest crowd in the center of nearly a million solar panels at the Copper Mountain Solar 1 facility, the largest photovoltaic solar plant in the United States. "These politicians need to come to Boulder City and see what I'm seeing."

A day earlier, the U.S. Commerce Department placed tariffs on solar panel imports from China, which Obama

said "wasn't playing fair when it came to solar power. And so, we took the first step toward leveling the playing field, because my attitude is, when the playing field is level, then American workers and American businesses are always going to win."

The president's visit was part of a four-state tour to advocate clean-energy production.

INSIDE

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Economic indicators show slow growth into summertime

11 Studies show link between lack of sleep and heart disease

Henderson home invaded, robbed

Homeowner taken to hospital after being attacked, stabbed several times

By Carla J. Zvosec
Editor

A 50-year-old Henderson homeowner was stabbed several times during a home invasion robbery on March 23. His wife, who was also home at the time of the attack, was not injured during the incident.

Detectives from the Henderson Police Department were told that four men, one of whom spoke with a heavy accent, wearing hoods and masks entered the couples' home on Inveraray Court, located within The Grand Legacy guard-gated community near Green Valley and Wigway parkways in

Green Valley, at about 8 p.m. on Friday.

The suspects stole cash and jewelry from the home. Police do not believe the crime was random, and the investigation is still under way.

The stabbing victim was taken to an area hospital and is expected to recover from his wounds.



Carla J. Zvosec | THP

A Henderson home located on Inveraray Court in The Grand Legacy guard-gated community, was invaded and robbed by four masked, hooded men who stabbed one of the homeowners, a 50-year-old man, several times on Friday, March 23.

Patty's Henderson Department Closet

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 500 Block, Lariat Lane
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 1300 Block, S Boulder Highway
 700 Block, South Racetrack Road
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 900 Block, American Pacific Drive

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 2200 Block, Bull Lake Drive
 700 Block, East Warm Springs Road
 800 Block, Airy Hill Street
 900 Block, Seven Hills Drive
 700 Block, Center Street
 200 Block, Kola Street
 2200 Block, West Horizon-Ridge Parkway

ASSAULT ▲

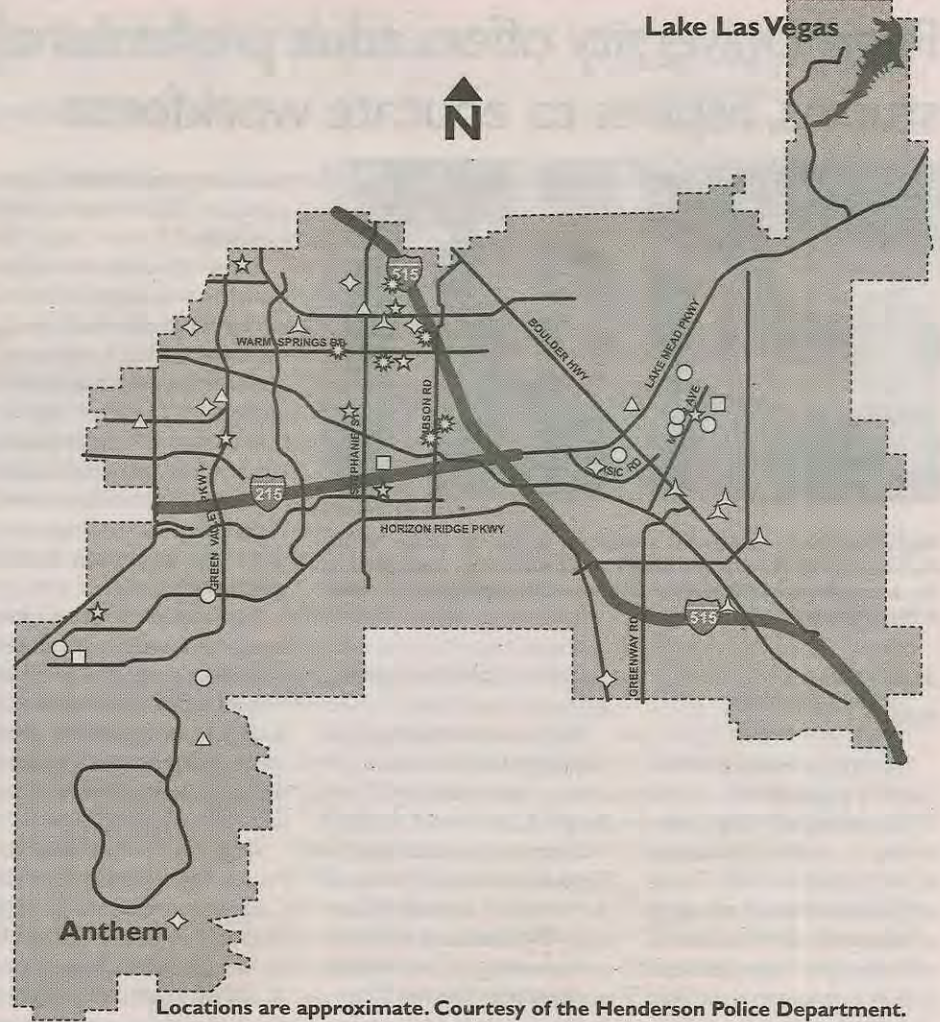
500 Block, East Lake Mead Parkway
 600 Block, North Stephanie Street
 2200 Block, Aria Drive
 2600 Block, Windmill Parkway
 2200 Block, Le Conte Avenue

NARCOTICS ★

1800 Block, North Green Valley Parkway
 2100 Block, Ramrod Avenue
 1300 Block, West Sunset Road
 900 Block, Sierra Vista Drive
 800 Block, Tracey Street
 40 Block, Chapata Drive
 2900 Block, Siena Heights Drive
 200 Block, Quest Park Street

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70 Block, Dow Jones Street
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Nevada Department of Conservation and Natural Resources, Division of Environmental Protection (NDEP) and the Nevada Environmental Response Trust announce:

Community Information & Interview Meeting
 Discussing the Nevada Environmental Response Trust Site (formerly known as the Tronox Site and Kerr McGee Site)

Date of Meeting: April 23, 2012
 Times: 4:00 pm and 7:00 pm
 Meeting Location: Henderson Convention Center
 200 South Water Street Henderson, Nevada 89015

Below is an agenda for both of the scheduled meetings regarding the NV Environmental Response Trust Site (located at 560 West Lake Mead Parkway, Henderson, NV):

- Presentation: Site background and history
- Presentation: Current and future soil and groundwater response activities
- Public Comment and Discussion: Community concerns, information needs, and desired involvement in the cleanup process
- Open Forum: At the close of the presentation and discussion, there will be an open forum for additional community input.

Documents related to the Nevada Environmental Response Trust Site may be viewed by appointment during normal business hours at the Nevada Division of Environmental Protection's Las Vegas office at 2030 East Flamingo Road Suite 230, Las Vegas NV 89119. In addition, significant milestone documents may be viewed online at <http://ndep.nv.gov/bmi/tronox.htm>.

For further information, contact:
Shannon Harbour
 NDEP Carson City Office
 (775) 687-9332
 sharhour@ndep.nv.gov

To schedule a file review, contact:
Christa Smaling
 NDEP Las Vegas Office
 (702) 486-2850 x 254
 csmaling@ndep.nv.gov

Members of the news media or for press inquiries, please contact the NDEP Public Information Officer, Vinson Guthreau at 775-687-9395



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STEVE DOUGLAS/THE ASSOCIATED PRESS

Emergency workers tend to a JetBlue captain after a Las Vegas-bound jetliner made an emergency landing Tuesday in Amarillo, Texas. The pilot was subdued by passengers who said he was screaming about al-Qaida, Iraq and Iran and a possible bomb on the plane. The co-pilot locked the cockpit during the episode. An off-duty pilot who had been a passenger took over the flight, the airline said.

Alarmed passengers subdue pilot during in-flight episode

By ANTONIO PLANAS, OSKAR GARCIA and BETSY BLANEY
REVIEW-JOURNAL STAFF AND WIRE REPORTS

Peter Karoczkai got an early indication that something was amiss with the pilot on his JetBlue flight when the man forced his way into the bathroom while a woman was washing her hands.

"This is crazy, the captain just broke into the bathroom," Karoczkai recalled the woman,

LV-bound jet made emergency landing

a co-worker, saying. The two joked about how the pilot must have eaten some spicy food.

Things got serious quickly on Tuesday for Karoczkai and other passengers aboard JetBlue Airways Flight 191, which departed from New

York's John F. Kennedy International Airport and was headed for McCarran International Airport. Passengers described frenzied moments when the pilot, Clayton Osbon, moved quickly from the back of the plane to a locked cockpit and began banging on the door while screaming incoherently.

"Bring it to idle. Bring it

▶ SEE PILOT PAGE 8A
'We're going down!'

HEALTH CARE OVERHAUL

Insurance mandate splits court

Conservative justices probe limits of government's power

By ROBERT BARNES and N.C. AIZENMAN

THE WASHINGTON POST

WASHINGTON — The Supreme Court's conservative justices appeared skeptical Tuesday that a key component of President Barack Obama's health care law is constitutional, endangering the most ambitious domestic program to emerge from Congress in decades.

In an intense interrogation of the government's lawyer, Solicitor General Donald Verrilli, the justices posed repeated and largely unanswered questions about the limits of federal power.

At the end of two hours, the court seemed split on the same question that has divided political leaders and the country: whether the Constitution gives Congress the power to compel Americans to either buy health insurance or pay a penalty.

The answer is likely to come from Justice Anthony Kennedy or Chief Justice John Roberts.

Both men fully joined in the rough 60 minutes of questioning for Verrilli. But they indicated that the case might be a closer call for them than for their col-

leagues.

If either were to save the health care law — championed by Obama, passed by a Democratic-controlled Congress in 2010 and increasingly unpopular in public opinion polls — it seemingly would require a judgment that there is something unique about the health care market that allows such regulation and that some line could be drawn to limit the government's claim of federal power.

Tuesday's arguments were the most dramatic so far of the Supreme Court's three days of hearings on the Patient Protection and Affordable Care Act, and the session was perhaps the most remarkable one since the court ended the 2000 presidential election with its decision in Bush vs. Gore.

Outside the courthouse, one demonstrator dressed as Lady Liberty, while another posed as a prisoner with a ball and chain. Down the street, Rep. Michele Bachmann, R-Minn., rallied tea party supporters. Inside the chamber, Cabinet secretaries and members of Congress were

▶ SEE MANDATE PAGE 5A
Today, court looks at Medicaid, states

PLUS Reid urges caution in trying to predict how justices will rule. ▶ PAGE 5A

Foundation audit finds questionable expenses

By KRISTI JOURDAN and BRIAN HAYNES
LAS VEGAS REVIEW-JOURNAL



Kathleen Vermillion
Ex-Henderson councilwoman

A forensic auditor who stud

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NOTICE OF COMMUNITY INFORMATION AND INTERVIEW MEETING The Nevada Department of Conservation and Natural Resources, Division of Environmental Protection (NDEP) and the Nevada Environmental Response Trust will discuss the Nevada Environmental Response Trust Site (formerly known as the Tronox Site and Kerr McGee Site) on April 23, 2012 at 4:00 pm and 7:00 pm at the Henderson Convention Center, 200 South Water Street, Henderson, Nevada 89015. The agenda for both of the scheduled meetings regarding the Nevada Environmental Response Trust Site (located at 560 West Lake Mead Parkway, Henderson, NV) will include: (1) a presentation on the site background and history; (2) a presentation on the current and future soil and groundwater response activities; (3) public comment and discussion regarding community concerns, information needs, and desired involvement in the cleanup process; and (4) an open forum at the close of the presentation and discussion for additional community input. Documents related to the Nevada Environmental Response Trust Site may be viewed by appointment during normal business hours at the Nevada Division of Environmental Protection's Las Vegas office at 2030 East Flamingo Road Suite 230, Las Vegas NV 89119. In addition, significant milestone documents may be viewed online at http://ndep.nv.gov/bmi/tronox.htm. For further information, contact: Shannon Harbour, NDEP Carson City Office, (775) 687-9332, sh harbour@ndep.nv.gov To schedule a file review, contact: Christa Smaling, NDEP Las Vegas Office; (702) 486-2850, ext 254; csmaling@ndep.nv.gov Members of the news media or for press inquiries, please contact the NDEP Public Information Officer, Vinson Guthreau at 775-687-9395.
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Community Involvement Plan, Revision 4
Nevada Environmental Response Trust Site
Henderson, Nevada

ATTACHMENT E-2
APRIL 23, 2012 COMMUNITY INTERVIEW
MEETING PRESENTATIONS AND SIGN-IN SHEETS

Nevada Environmental Response Trust Site Project Status and Future Actions

Nevada Division of Environmental Protection (NDEP)
Nevada Environmental Response Trust (NERT)
ENVIRON International Corporation (Environmental
Consultant to NERT)

April 23, 2012

Nevada Environmental Response Trust (NERT) Site



- 450 Acre Site
- Located in Henderson, NV
- Active Industrial Facility (Tronox, LLC)
- Adjacent Active Industrial Facilities (Timet, L'Hoist, WAPA and Others)

Parties Involved

- NDEP: Nevada Division of Environmental Protection
- NERT: Nevada Environmental Response Trust
- ENVIRON: ENVIRON International Corporation
 - Environmental Consultant to NERT

Site History

- 1940s: Magnesium Production for WWII effort (US Gov't)
- 1950s-1960s: Manganese dioxide, sodium chlorate, perchlorates (WECCO, American Potash & Chemical Co., United States Navy)
- Early 1970s: elemental boron, boron trichloride and boron tribromide production began (Kerr-McGee)
- 1990s: Production ceased: boron tribromide (1994), sodium chlorate (1997), and ammonium perchlorate (1998)
- Perchlorate reclamation from on-site materials until 2002
- 2005: Kerr-McGee became Tronox LLC
- 2009: Tronox LLC filed for bankruptcy
- 2011: Tronox LLC reorganization; NERT established



Primary Contaminants of Concern

- Metals (e.g. arsenic, chromium VI, manganese)
- Perchlorate
- Dioxins/Furans

Accomplishments to Date

- Soil Characterization
- Large-Scale Soil Excavation and Off-Site Disposal
- Groundwater Characterization
- Groundwater Extraction and Treatment
- Groundwater Monitoring

Soil Removal Action

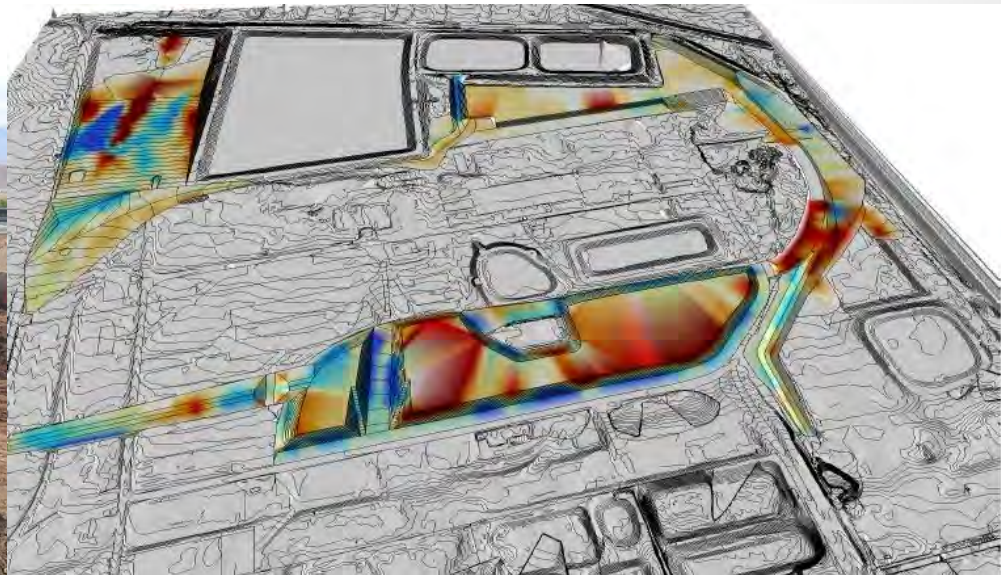
- 930,461 tons of contaminated soil removed
- ~115 acres
- Monitoring for worker and neighbor health/safety
- Disposal of impacted soil at Apex Landfill



Backfill / Grading



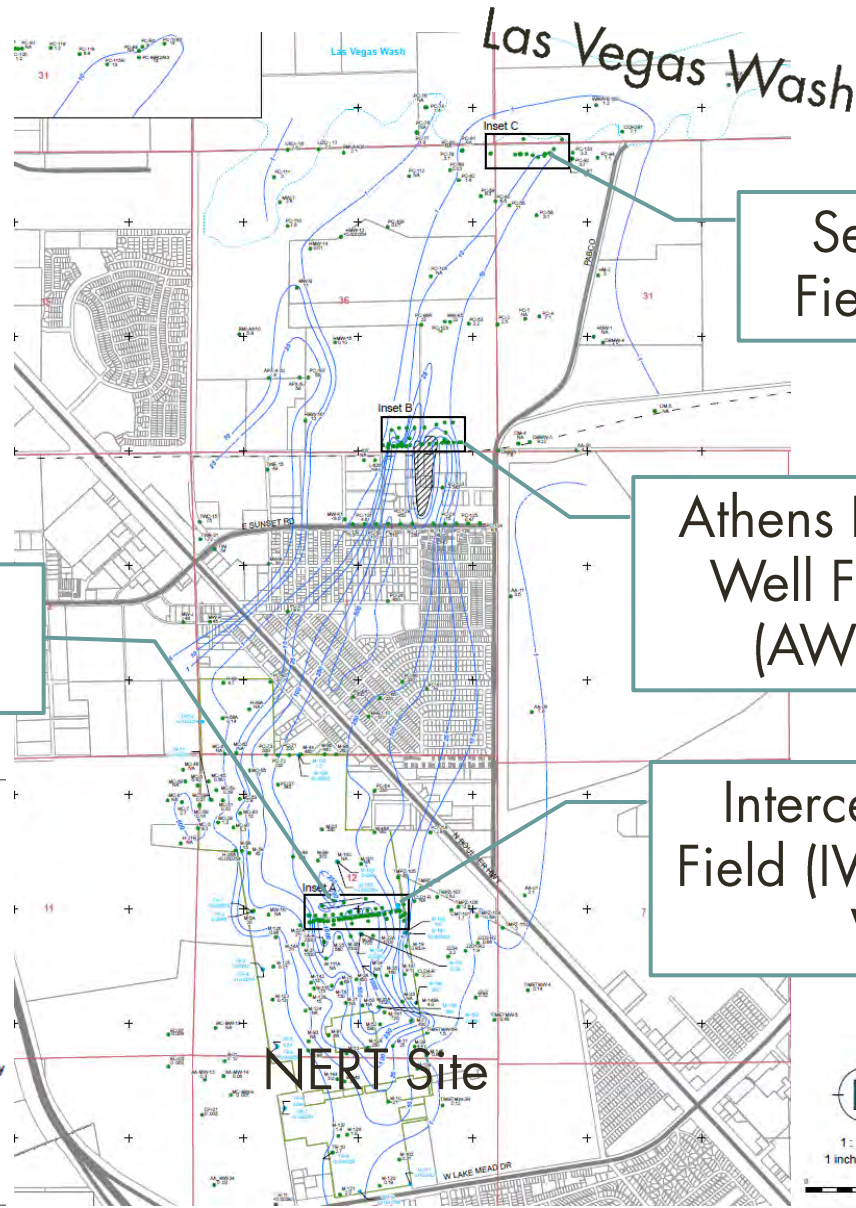
- 407,072 tons of clean imported backfill placed
- Site Grading
- Site Restoration



Site Management Plan

- Identifies Excavation Control Areas (ECAs)
 - Inaccessible contaminated soil
 - Unknown conditions and/or limited analytical information
 - Soils >10 ft below original grade
- Soil Management Protocols for:
 - ECA Soils
 - Previously Unknown Contaminated Soils
- Groundwater Risk Management Protocols

Perchlorate Plume and GWETS



Seep Well Field (SWF)

Athens Road Well Field (AWF)

Interceptor Well Field (IWF) & Slurry Wall

Groundwater Treatment System

LEGEND

Wells Identified for Sampling (May - June 2011)

- Shallow Water Bearing Zone Well (used in Contouring)
- Deeper Water Bearing Zone (not used in Contouring)
- Perchlorate Iso-concentration Line (mg/L) (Dashed where approximate)
- 1700 Perchlorate Concentration (mg/L)
- NA No Analysis
- J Estimated Concentration
- J+ Estimated Concentration with Positive Bias
- ▭ Nevada Environmental Response Trust Property Boundary
- ▨ Unsaturated Alluvium

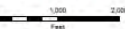
Note: Results shown may have been rounded for clarity. See Table A-1 and A-2 for all results reported to full precision.

Grid: State Plane, Nevada East, NAD83, Feet

DRAFT



1 : 12,000
1 inch = 1,000 ft



Groundwater Extraction and Treatment System

- Three discrete extraction well fields
 - On-Site: Interceptor Well Field (IWF)
 - Galleria Drive: Athens Road Well Field (AWF)
 - Near Las Vegas Wash: Seep Well Field (SWF)
- On-site groundwater treatment facility - permitted discharge under the Clean Water Act (NPDES)
 - Carbon adsorption
 - Chemical precipitation
 - Fluidized-bed biological treatment
 - Discharge to Las Vegas Wash
- Stable operation and consistent compliance with NPDES permit limitations

Groundwater Monitoring

- ~300 Groundwater Wells monitored regularly
 - ~50 wells sampled monthly
 - ~150 wells sampled quarterly
 - ~300 wells sampled annually
- Treatment plant monitoring as required by permit
- Primary chemicals monitored are chromium and perchlorate
- Also monitoring for total dissolved solids (TDS), nitrate, chlorate, and pH

Site Remediation Strategy

Remediation Program – Primary Issues

- Groundwater plume containing perchlorate and other chemicals extending off-site to the north
 - Primarily in the shallow (alluvial) aquifer
- Residual Sources
 - Deep (>10 feet) vadose zone soils containing perchlorate and other chemicals
 - Inaccessible soils containing perchlorate and other chemicals

Remedial Investigation/Feasibility Study (RI/FS)

Plan for 2012-2013

- RI/FS Work Plan
 - Identify Data Quality Objectives
 - Identify Data Gaps
 - Preliminary Identification of Likely Response Scenarios and Remedial Action Objectives
- Remedial Investigation (RI)
 - Summary and Analysis of Existing Site Data
 - Capture Zone Evaluation and Groundwater Model Development
 - Data Gap Investigation (as required)
 - Treatability Study Work Plan and Implementation
 - Baseline Risk Assessment

Remedial Investigation/Feasibility Study (RI/FS)

Plan for 2012-2013

- Feasibility Study
 - Development of Remedial Action Objectives
 - Detailed Analysis of Remedial Alternatives
 - Proposed Remedy Selection
- Public Participation
 - Community Involvement Plan
 - Community Meetings
 - Public Comment Opportunities
 - Documentation/Information Available to the Community

Community Interview Questionnaire

- Would you like to receive additional information regarding the Nevada Environmental Response Trust Site or the remediation project described in the Fact Sheet? If so, how would you prefer to receive such information?
- What information about the Site or the remediation project would you most like to know?
- In your opinion, what information is most important and/or relevant to the community regarding the Site?
- You are free to respond anonymously, however, if you would like to be contacted directly, please provide your name, address, phone number and email address if applicable.

Questions/Comments

Nevada Department of Conservation and Natural Resources, Division of Environmental Protection (NDEP)
 and the Nevada Environmental Response Trust
 Community Information and Interview Meeting
 April 23, 2012

4 PM

Name	Address	Phone Number	Email Address	Do you want to receive information in the future?
Andrea Sommar	1540 Palm St, Nend.	(702) 767-2843	AndreaNV@cox.net	Yes
Gary Miller	Dept Air Quality	702-455-5188	miller.g@clackentia.nv.gov	no
John Holmstrom	1118 San Eduardo	465-6707	john.holmstrom@fox.com	yes
Steve Tyahla	75 Hawthorne St, SF	(415) 972-3466	tyahla.stephen@epa.gov	
Anna Hestenes	15 New Mexico Way	Henderson NV 89015	Anna-Hestenes@cox.net	yes
2 Elmer & Johanna Bartelt	211 Denver Way	Henderson, NV 89015	rodeanena@hotmail.com	yes
James Collins	638 W. Victory	702-450-5949	jamelc@thevisitinggroup.net	yes
Alex Stater	560 W. Lake Mead			no
2 adults 2 children Tanya Dritz	288 Pastel Cloud	702-575-3339		
John Brawell	416 PerLife St	565-4984		?
Stephanne Zimmerman	875 W. Warm Springs Road	567 0400	szimmerman@landwellco.com	Yes
Ty Salazar	4500 Warner Cr. ^{W. side}	702-576-2021	tsalazar@kason.com	Yes
Ed Hall	611 Buchanan Ave.	(702) 565-7321		Yes

Nevada Department of Conservation and Natural Resources, Division of Environmental Protection (NDEP)
 and the Nevada Environmental Response Trust
 Community Information and Interview Meeting
 April 23, 2012

4 PM

Name	Address	Phone Number	Email Address	Do you want to receive information in the future?
Laverne Tinker	217 Bismark Way	564-6202		yes
Mike Skromyda	Tronox			
Scott Haigh	Tronox			

23 Adults 2 children for 4 PM

Nevada Department of Conservation and Natural Resources, Division of Environmental Protection (NDEP)
 and the Nevada Environmental Response Trust
 Community Information and Interview Meeting
 April 23, 2012

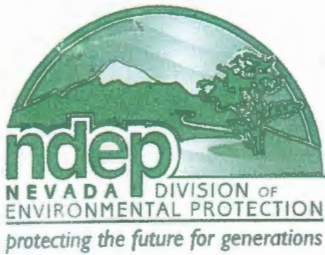
7 PM

Name	Address	Phone Number	Email Address	Do you want to receive information in the future?
Victoria Coda	245 Pastel Blvd Henderson 89015	558-5099	rivermaniac2@earthlink.net	Yes
STEVE SESSUMS	138 CAMINO CAPRI 89012	565-0106	PLANEWAZER@HOTMAIL.COM	YES
2 Robert Rynda Mary Speers	96 Wagon Box Rd	566-9905	bikerandhiker@hotmail.com	yes
Charlene Black	147 W. Victory Rd	564-1492	cbplis@earthlink.net	yes
Ralph Peters	1601 Athol Ave	564-7453		
2 Carly & David Held	281 Jessica Grove St 89015	405-0715	carlyheld@gmail.com	yes

11 ADULTS + 1 CHILD @ 7:00 PM mtg

Community Involvement Plan, Revision 4
Nevada Environmental Response Trust Site
Henderson, Nevada

**ATTACHMENT E-3
MAY 2014 COMMUNITY INFORMATION
DOCUMENTS PROVIDED IN MAILING**



STATE OF NEVADA

Department of Conservation & Natural Resources
DIVISION OF ENVIRONMENTAL PROTECTION

Brian Sandoval, Governor
Leo M. Drozdoff, P.E., Director
Colleen Cripps, Ph.D., Administrator

May 30, 2014

Re: **Community Information and Community Involvement Plan**
Nevada Environmental Response Trust Site (formerly Tronox Site and Kerr-McGee Site)

Dear Resident:

You are receiving this correspondence because you live in the area surrounding the Nevada Environmental Response Trust Site (formerly known as the Tronox Site and Kerr-McGee Site), 560 West Lake Mead Parkway, which is located in an unincorporated section of Clark County, Nevada and is surrounded by the City of Henderson. Attached is a Fact Sheet with some background information on the Site.

If you have any questions regarding the Community Information or the Site in general, please to contact James Dotchin of the Nevada Division of Environmental Protection, at (702) 486-2850 or jdotchin@ndep.nv.gov. Documents related to the Nevada Environmental Response Trust Site can be viewed during normal business hours at NDEP's Las Vegas office, 2030 E. Flamingo Rd. Suite 230, Las Vegas NV 89119. File reviews generally require one business day notice. Please contact Christa Smaling at 702-486-2850 x 254 or csmaling@ndep.nv.gov to schedule a file review. A second project document repository is located at the James I. Gibson Library at 100 W. Lake Mead Parkway in Henderson, Nevada. In addition, significant milestone documents may be viewed online at: <http://ndep.nv.gov/bmi/tronox.htm>

Thank you for your time and we look forward to hearing from you.

Sincerely,

James (JD) Dotchin
Nevada Division of Environmental Protection
Supervisor Special Projects Branch
Bureau of Corrective Actions
2030 E. Flamingo Rd, Suite 230
Las Vegas, NV. 89119
Fax: 702-486-2863

Enclosures



Nevada Environmental Response Trust Site Fact Sheet

The Nevada Environmental Response Trust (the “NERT”) Site, which was previously known as the Tronox LLC (“Tronox”), formerly Kerr-McGee Chemical LLC, Henderson Facility, is located within the Black Mountain Industrial (“BMI”) complex near Henderson, Nevada. The Site is approximately 346 acres in size and is located 13 miles southeast of Las Vegas, Nevada in an unincorporated section of Clark County, Nevada. It is completely surrounded by the incorporated area comprising the City of Henderson (“COH”).



Site Location

Site History

The BMI complex has been the site of industrial operations since 1942 and was originally sited and operated by the U.S. government as a magnesium production plant in support of the World War II effort. Following the war, a portion of the complex was leased by Western Electrochemical Company (“WECCO”). By August 1952, WECCO had purchased several portions of the complex, including six of the large unit buildings, and produced manganese dioxide, sodium chlorate and various perchlorates. In addition, in the early 1950s, pursuant to a contract with the U.S. Navy, WECCO constructed and operated a plant to produce ammonium perchlorate on land purchased by the Navy. In 1956, WECCO merged with American Potash and Chemical Company (“AP&CC”) and continued to operate the processes, with the Navy’s continued involvement in the ammonium perchlorate process. In 1962, AP&CC purchased the ammonium perchlorate plant from the Navy, but continued to supply the Navy, and its contractors, material from the operating process. AP&CC merged with Kerr-McGee Corporation (“Kerr-McGee”) in 1967. This merger included boron production processes in California, which were moved to Henderson and began operation in the early 1970s. These included elemental boron, boron trichloride and boron tribromide. In 1994, the boron tribromide process was shut down and dismantled. In 1997, the sodium chlorate process was shut down and in 1998, production of commercial ammonium perchlorate ended as well. The ammonium perchlorate production equipment was used to reclaim perchlorate from on-site materials until early 2002, when the equipment was permanently shut down. In 2005, Kerr-McGee Chemical LLC’s name was changed to Tronox LLC (“Tronox”), and in 2009 Tronox filed for



bankruptcy. NERT was established as part of Tronox’s reorganization and in February 2011 became the owner of the property that was previously owned by Tronox. Tronox leases back a portion of the Site from NERT for production of manganese dioxide, boron trichloride

and elemental boron. Tronox has also recently renovated Unit Building 4 for its Advanced Battery Material (“ABM”) production process.

Site Investigation and Remediation

In response to the 1972 Federal Water Pollution Control Act, also known as the Clean Water Act (“CWA”), Kerr-McGee modified its manufacturing processes and constructed lined surface impoundments to recycle and evaporate industrial wastewater. The facility achieved zero-discharge status in 1976 regarding industrial wastewater management, and in February 1977, Kerr-McGee obtained a National Pollutant Discharge Elimination System (“NPDES”) permit under the CWA authorizing up to 4 million gallons per day discharge of non-contact cooling water to Las Vegas Wash. A groundwater investigation was initiated by Tronox in July 1981 to comply with the federal Resource Conservation and Recovery Act (“RCRA”) standards for monitoring the existing on-site impoundments. In December 1983, the Nevada Division of Environmental Protection (“NDEP”) requested that Tronox investigate the extent of chromium impact in the groundwater beneath the facility.

A Consent Order between Tronox and NDEP, prepared in September 1986, required additional groundwater characterization and the implementation of response activities to address chromium in the groundwater. As a result of the 1986 Consent Order, monitoring wells, groundwater interceptor wells, a groundwater treatment system for chromium reduction, and two treated-groundwater injection trenches were installed, and the treatment of hexavalent chromium in groundwater began in mid-1987. This treatment is on-going today although the injection trenches are not currently utilized.

In April 1991, Tronox was one of six companies that entered into a Consent Agreement with NDEP to conduct environmental studies to assess site-specific environmental conditions resulting from past and present industrial operations and waste disposal practices. The six companies that entered into the Consent Agreement included those past or present entities that conducted business within the BMI complex. The Consent Agreement specified that, among other things, the companies identify, document or address soil, surface water, groundwater or air impacts and document measures that have been taken to address environmental impacts from their respective sites.

In April 1993, in compliance with the 1991 Consent Agreement, Tronox submitted the Phase I Environmental Conditions Assessment (“ECA”) to NDEP. The purpose of the ECA was to identify and document site-specific environmental impacts resulting from past or present industrial activities. The Phase I ECA included an assessment of the geologic and hydrologic setting, as well as historical manufacturing activities. In 1994, NDEP issued a letter of understanding (“LOU”) that identified 69 data gap areas which needed additional information, either in the form of additional document research or field sampling of site conditions. Subsequent to the issuance of the LOU, an additional potential source area, the former U.S. Vanadium site, was identified during planning for the 2009 Phase B Source Investigation. Although not formally designated as an LOU, the U.S. Vanadium site is referred to as LOU 70.

During the mid to late 1990s, Tronox collected additional data to fill the data gaps identified in the LOU. This was done by investigating past operator records as well as through field sampling. Results of this work are described in a Phase II Written Response to the LOU, a Phase II ECA, and a Supplemental Phase II ECA, the latter two of which were reports describing the results of field sampling of groundwater and soils. Through this effort, potential environmental impacts associated with the 69 LOU areas were evaluated.

In 1997, perchlorate was discovered in the vicinity of the Las Vegas Wash and this aspect of the ECA was placed on a response fast-track. Impact characterization and treatment methodology evaluation were on-going in the late 1990s, along with the installation of a seep water collection system adjacent to the Las Vegas Wash to mitigate the discharge of perchlorate. In November 1999, Tronox began operation of a temporary ion exchange (“IX”) treatment system to treat perchlorate-impacted groundwater. Also in 1999, Tronox and NDEP entered into a Consent Agreement, which defined additional response requirements and looked forward to a treatment process that would replace the temporary IX treatment system. After considerable research and process development, a replacement treatment technology was developed. In October 2001 Tronox and NDEP entered into an Administrative Order on Consent (“AOC”) that defined the replacement treatment process, which required Tronox to install additional extraction well systems and construct an on-site groundwater treatment facility. The groundwater extraction and treatment system (“GWETS”) has operated continuously at the Site since 2002. The current groundwater treatment facility includes granular activated, biological fluidized bed reactors, as well as a ferrous sulfate system. Following treatment, all extracted water is discharged to Las Vegas Wash under a National Pollutant Discharge Elimination System permit. Semi-annual and annual remedial performance reports covering performance data for both the chromium and perchlorate remediation programs are submitted to NDEP each year.

In 2004, a list of Site-related chemicals was developed based upon investigations associated with operations at the Site. This list included raw materials, process chemicals, and intermediates, as well as products of all current and previous manufacturers at the Site. In 2005, a Conceptual Site Model (“CSM”) was prepared for the Site, which consolidated information gathered regarding environmental impact, both known and potential.

Tronox implemented two soil sampling programs (known as Phase A and B Source Investigations) that were completed in 2006 and 2009, respectively. These investigations identified a number of constituents in excess of state Basic Comparison Level (“BCL”) criteria within the upper 10 feet of soil, including dioxin toxic equivalents (“TEQ”), hexachlorobenzene, other semivolatile organic compounds, polychlorinated biphenyls (“PCBs”), asbestos, metals, organochlorine pesticides, and perchlorate. In an order dated December 14, 2009, NDEP directed Tronox to remove all soil containing chemicals of potential concern in excess of worker BCLs (or modified risk-based goals agreed upon by NDEP) from the Site by the end of 2010. Tronox began the soil removal project in August 2010, but it was not completed when the Site was transferred to NERT on February 14, 2011. Although NERT is not regulated under any of the Kerr-McGee/Tronox consent agreements or administrative orders on consent, NERT completed the interim soil removal program in November 2011, consistent with an Interim Consent Agreement between NDEP and NERT effective as of February 14, 2011.

For the purposes of soil remediation activities, the main contaminated portions of the Site were divided into the five separate remediation zones (“RZ”) listed below:

- RZ-A: an area on the southern portion of the Site
- RZ-B: the area around the Unit buildings
- RZ-C: the ammonia perchlorate production area, Koch Materials area, pond and diesel storage tank area, and manganese tailings area

- RZ-D: the Trade Effluent ponds and ammonium perchlorate pad/drum recycling area (including the hazardous waste landfill)
- RZ-E: the Beta Ditch

Soil sampling in RZ-A did not identify soils exceeding NDEP cleanup criteria, and therefore excavation activities were not planned in this area. A Human Health Risk Assessment prepared for RZ-A concluded that COPC concentrations remaining in soil did not result in unacceptable risks and has been approved by NDEP. Tronox's consultant prepared a workplan describing a strategy for excavating chemically impacted soil within the upper 10 feet of soil in areas RZ-B through E, to the extent such soils were accessible. These response activities commenced during 2010. As of January 1, 2012, approximately 930,000 tons of contaminated soil had been excavated. An interim soil removal action completion report was prepared for all five remediation zones in January 2012 and revised in September 2012. Certain impacted soils within the remediation zones that cannot be excavated due to physical constraints or other access issues were designated as Excavation Control Areas ("ECAs") and are addressed through the Site Management Plan ("SMP"), Revision 1, dated October 2013. The SMP describes procedures to address the known remaining environmental conditions at the Site, as well as contingency actions to be taken if previously unknown environmental conditions are encountered.

Recent groundwater monitoring results indicate significant capture and ongoing reduction of the perchlorate and hexavalent chromium plumes. Perchlorate concentrations in Las Vegas Wash have declined by more than 90% over the last 10 years of groundwater capture system operation. The GWETS continues to operate.

In 2012, NERT developed a Remedial Investigation/Feasibility Study ("RI/FS") Work Plan to address soil and groundwater contamination at the Site pursuant to the Interim Consent Agreement. The RI/FS will be conducted in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). A revised work plan, incorporating comments received from NDEP and other stakeholders, was submitted to NDEP in January 2014.

In accordance with the approved Community Involvement Plan (CIP), project documents are available to the public in a document repository at the NDEP office located at 2030 E. Flamingo Road, Suite 230, Las Vegas, Nevada. A second project document repository is located at the James I. Gibson Library at 100 W. Lake Mead Parkway in Henderson, Nevada.

A project milestone schedule covering the overall progress of current and future site activities is available on the NDEP web site (<http://ndep.nv.gov/bmi/tronox.htm>).

Community Involvement Plan, Revision 4
Nevada Environmental Response Trust Site
Henderson, Nevada

**ATTACHMENT E-4
JANUARY 2015 COMMUNITY INFORMATION
DOCUMENTS PROVIDED IN MAILING**



STATE OF NEVADA

Department of Conservation & Natural Resources

DIVISION OF ENVIRONMENTAL PROTECTION

Brian Sandoval, Governor

Leo M. Drozdoff, P.E., Director

Colleen Cripps, Ph.D., Administrator

January 22, 2015

Re: Community Information and Community Involvement Plan

Nevada Environmental Response Trust Site (formerly Tronox Site and Kerr-McGee Site)

Dear Resident:

You are receiving this correspondence because you live in the area surrounding the Nevada Environmental Response Trust Site (formerly known as the Tronox Site and Kerr-McGee Site), 560 West Lake Mead Parkway, which is located in an unincorporated section of Clark County, Nevada and is surrounded by the City of Henderson. Attached is a Fact Sheet with some background information on the Site.

If you have any questions regarding the Community Information or the Site in general, please contact James Dotchin of the Nevada Division of Environmental Protection, at (702) 486-2850 or jdotchin@ndep.nv.gov. Documents related to the Nevada Environmental Response Trust Site can be viewed during normal business hours at NDEP's Las Vegas office, 2030 E. Flamingo Rd. Suite 230, Las Vegas NV 89119. File reviews generally require one business day notice. Please contact Christa Smaling at 702-486-2850 x 254 or csmaling@ndep.nv.gov to schedule a file review. A second project document repository is located at the James I. Gibson Library at 100 W. Lake Mead Parkway in Henderson, Nevada. In addition, significant milestone documents may be viewed online at:

<http://ndep.nv.gov/bmi/tronox.htm>

Thank you for your time and we look forward to hearing from you.

Sincerely,

James (JD) Dotchin
Nevada Division of Environmental Protection
Supervisor Special Projects Branch
Bureau of Corrective Actions
2030 E. Flamingo Rd, Suite 230
Las Vegas, NV. 89119
Fax: 702-486-2863

Enclosures

2030 E. Flamingo Road, Suite 230 • Las Vegas, Nevada 89119 • p: 702.486.2850 • f: 702.486.2863 • ndep.nv.gov

Nevada Environmental Response Trust Site Fact Sheet

The Nevada Environmental Response Trust (the “NERT”) Site, which was previously known as the Tronox LLC (“Tronox”), formerly Kerr-McGee Chemical LLC, Henderson Facility, is located within the Black Mountain Industrial (“BMI”) complex near Henderson, Nevada. The Site is approximately 346 acres in size and is located 13 miles southeast of Las Vegas, Nevada in an unincorporated section of Clark County, Nevada. It is completely surrounded by the incorporated area comprising the City of Henderson (“COH”).



Site Location

Site History

The BMI complex has been the site of industrial operations since 1942 and was originally sited and operated by the U.S. government as a magnesium production plant in support of the World War II effort. Following the war, a portion of the complex was leased by Western Electrochemical Company (“WECCO”). By August 1952, WECCO had purchased several portions of the complex, including six of the large unit buildings, and produced manganese dioxide, sodium chlorate and various perchlorates. In addition, in the early 1950s, pursuant to a contract with the U.S. Navy, WECCO constructed and operated a plant to produce ammonium perchlorate on land purchased by the Navy. In 1956, WECCO merged with American Potash and Chemical Company (“AP&CC”) and continued to operate the processes, with the Navy’s continued involvement in the ammonium perchlorate process. In 1962, AP&CC purchased the ammonium perchlorate plant from the Navy, but continued to supply the Navy, and its contractors, material from the operating process. AP&CC merged with Kerr-McGee Corporation (“Kerr-McGee”) in 1967. This merger included boron production processes in California, which were moved to Henderson and began operation in the early 1970s. These included elemental boron, boron trichloride and boron tribromide. In 1994, the boron tribromide process was shut down and dismantled. In 1997, the sodium chlorate process was shut down and in 1998, production of commercial ammonium perchlorate ended as well. The ammonium perchlorate production equipment was used to reclaim perchlorate from on-site materials until early 2002, when the equipment was permanently shut down. In 2005, Kerr-McGee Chemical LLC’s name was changed to Tronox LLC (“Tronox”), and in 2009 Tronox filed for



bankruptcy. NERT was established as part of Tronox’s reorganization and in February 2011 became the owner of the property that was previously owned by Tronox. Tronox leases back a portion of the Site from NERT for production of manganese dioxide, boron trichloride

and elemental boron. Tronox also operates an Advanced Battery Material (“ABM”) production process.

Site Investigation and Remediation

In response to the 1972 Federal Water Pollution Control Act, also known as the Clean Water Act (“CWA”), Kerr-McGee modified its manufacturing processes and constructed lined surface impoundments to recycle and evaporate industrial wastewater. The facility achieved zero-discharge status in 1976 regarding industrial wastewater management, and in February 1977, Kerr-McGee obtained a National Pollutant Discharge Elimination System (“NPDES”) permit under the CWA authorizing up to 4 million gallons per day discharge of non-contact cooling water to Las Vegas Wash. A groundwater investigation was initiated by Tronox in July 1981 to comply with the federal Resource Conservation and Recovery Act (“RCRA”) standards for monitoring the existing on-site impoundments. In December 1983, the Nevada Division of Environmental Protection (“NDEP”) requested that Tronox investigate the extent of chromium impact in the groundwater beneath the facility.

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In April 1991, Tronox was one of six companies that entered into a Consent Agreement with NDEP to conduct environmental studies to assess site-specific environmental conditions resulting from past and present industrial operations and waste disposal practices. The six companies that entered into the Consent Agreement included those past or present entities that conducted business within the BMI complex. The Consent Agreement specified that, among other things, the companies identify, document or address soil, surface water, groundwater or air impacts and document measures that have been taken to address environmental impacts from their respective sites.

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During the mid to late 1990s, Tronox collected additional data to fill the data gaps identified in the LOU. This was done by investigating past operator records as well as through field sampling. Results of this work are described in a Phase II Written Response to the LOU, a Phase II ECA, and a Supplemental Phase II ECA, the latter two of which were reports describing the results of field sampling of groundwater and soils. Through this effort, potential environmental impacts associated with the 69 LOU areas were evaluated.

In 1997, perchlorate was discovered in the vicinity of the Las Vegas Wash and this aspect of the ECA was placed on a response fast-track. Impact characterization and treatment methodology evaluation were on-going in the late 1990s, along with the installation of a seep water collection system adjacent to the Las Vegas Wash to mitigate the discharge of perchlorate. In November 1999, Tronox began operation of a temporary ion exchange (“IX”) treatment system to treat perchlorate-impacted groundwater. Also in 1999, Tronox and NDEP entered into a Consent Agreement, which defined additional response requirements and looked forward to a treatment process that would replace the temporary IX treatment system. After considerable research and process development, a replacement treatment technology was developed. In October 2001 Tronox and NDEP entered into an Administrative Order on Consent (“AOC”) that defined the replacement treatment process, which required Tronox to install additional extraction well systems and construct an on-site groundwater treatment facility. The groundwater extraction and treatment system (“GWETS”) has operated continuously at the Site since 2002. The current groundwater treatment facility includes granular activated, biological fluidized bed reactors, as well as a ferrous sulfate system. Following treatment, all extracted water is discharged to Las Vegas Wash under a National Pollutant Discharge Elimination System permit. Semi-annual and annual remedial performance reports covering performance data for both the chromium and perchlorate remediation programs are submitted to NDEP each year.

In 2004, a list of Site-related chemicals was developed based upon investigations associated with operations at the Site. This list included raw materials, process chemicals, and intermediates, as well as products of all current and previous manufacturers at the Site. In 2005, a Conceptual Site Model (“CSM”) was prepared for the Site, which consolidated information gathered regarding environmental impact, both known and potential.

Tronox implemented two soil sampling programs (known as Phase A and B Source Investigations) that were completed in 2006 and 2009, respectively. These investigations identified a number of constituents in excess of state Basic Comparison Level (“BCL”) criteria within the upper 10 feet of soil, including dioxin toxic equivalents (“TEQ”), hexachlorobenzene, other semivolatile organic compounds, polychlorinated biphenyls (“PCBs”), asbestos, metals, organochlorine pesticides, and perchlorate. In an order dated December 14, 2009, NDEP directed Tronox to remove all soil containing chemicals of potential concern in excess of worker BCLs (or modified risk-based goals agreed upon by NDEP) from the Site by the end of 2010. Tronox began the soil removal project in August 2010, but it was not completed when the Site was transferred to NERT on February 14, 2011. Although NERT is not regulated under any of the Kerr-McGee/Tronox consent agreements or administrative orders on consent, NERT completed the interim soil removal program in November 2011, consistent with an Interim Consent Agreement between NDEP and NERT effective as of February 14, 2011.

For the purposes of soil remediation activities, the main contaminated portions of the Site were divided into the five separate remediation zones (“RZ”) listed below:

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- RZ-D: the Trade Effluent ponds and ammonium perchlorate pad/drum recycling area (including the hazardous waste landfill)
- RZ-E: the Beta Ditch

Soil sampling in RZ-A did not identify soils exceeding NDEP cleanup criteria, and therefore excavation activities were not planned in this area. A Human Health Risk Assessment prepared for RZ-A concluded that COPC concentrations remaining in soil did not result in unacceptable risks and has been approved by NDEP. Tronox's consultant prepared a workplan describing a strategy for excavating chemically impacted soil within the upper 10 feet of soil in areas RZ-B through E, to the extent such soils were accessible. These response activities commenced during 2010. As of January 1, 2012, approximately 930,000 tons of contaminated soil had been excavated. An interim soil removal action completion report was prepared for all five remediation zones in January 2012 and revised in September 2012. Certain impacted soils within the remediation zones that cannot be excavated due to physical constraints or other access issues were designated as Excavation Control Areas ("ECAs") and are addressed through the Site Management Plan ("SMP"), Revision 1, dated October 2013. The SMP describes procedures to address the known remaining environmental conditions at the Site, as well as contingency actions to be taken if previously unknown environmental conditions are encountered.

Recent groundwater monitoring results indicate significant capture and ongoing reduction of the perchlorate and hexavalent chromium plumes. Since 2000, perchlorate concentrations in Las Vegas Wash have declined by more than 90% due in part to the groundwater capture system operation. The GWETS continues to operate.

In accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and pursuant to the Interim Consent Agreement, NERT initiated a Remedial Investigation (RI) in 2014. The objectives of the RI are to characterize site conditions and the nature and extent of environmental impacts, assess potential risks to human health and the environment, and to evaluate potential performance and cost effectiveness of various treatment or clean-up technologies. The RI is currently being conducted and will support the upcoming Feasibility Study (FS). The objectives of a FS are to develop, compare, and evaluate clean-up options and technologies for the site prior to the selection of a preferred clean-up alternative.

To implement the RI/FS, NERT developed a draft RI/FS Work Plan describing the proposed actions to meet the RI/FS objectives. The Work Plan was submitted to NDEP on January 10, 2014 and reviewed by NDEP, the U.S. Environmental Protection Agency, and project stakeholders, including the Las Vegas Valley Water District, Southern Nevada Water Authority, City of Henderson, Central Arizona Project, and the Metropolitan Water District of Southern California. NDEP and Stakeholder comments were compiled by NDEP and provided to NERT, which were addressed in a revised RI/FS Work Plan submitted to NDEP on June 19, 2014.

The Work Plan was finalized and approved by NDEP on July 2, 2014 and the RI was initiated in October 2014. The RI activities currently underway include performing soil and groundwater sampling, compilation and analysis of environmental data, evaluation of potential risks to human health and the environment, quantifying the movement and behavior of chemicals in groundwater through the development of a groundwater model, and the development of work plans for pilot studies of environmental clean-up

technologies. The RI is anticipated to be performed during 2015 and the first half of 2016, with the FS being performed throughout 2016 and into 2017.

Project Documentation

In accordance with the approved Community Involvement Plan (CIP), project documents are available to the public in a document repository at the NDEP office located at 2030 E. Flamingo Road, Suite 230, Las Vegas, Nevada. A second project document repository is located at the James I. Gibson Library at 100 W. Lake Mead Parkway in Henderson, Nevada.

A project milestone schedule covering the overall progress of current and future site activities is available on the NDEP web site (<https://ndep.nv.gov/bmi/tronox.htm>).

For More Information

If you have questions regarding the activities at the NERT Site, please contact the Community Involvement Coordinator at NDEP:

James Dotchin
Environmental Scientist IV
Special Projects Branch, Bureau of Corrective Actions
Nevada Division of Environmental Protection
2030 E. Flamingo Road, Suite 230
Las Vegas, NV 89119
(702) 486-2850 x230

Community Involvement Plan, Revision 4
Nevada Environmental Response Trust Site
Henderson, Nevada

**ATTACHMENT E-5
JULY 2015 COMMUNITY INFORMATION DOCUMENTS PROVIDED IN
MAILING AND NEWSPAPER ANNOUNCEMENTS**



July 24, 2015

Re: Community Information and Interview Meetings
NDEP Downgradient Investigation Area and Nevada Environmental Response Trust (NERT) Site

Dear Resident:

You are receiving this correspondence because you live in the area surrounding an area being investigated by the Nevada Division of Environmental Protection ("NDEP") to evaluate potential perchlorate impacts to the subsurface and Las Vegas Wash related to the Nevada Environmental Response Trust Site ("NERT Site," formerly known as the Tronox Site and Kerr-McGee Site). The NERT Site and the area being investigated by NDEP (known as the "NDEP Downgradient Investigation Area") are located in an unincorporated section of Clark County, Nevada, and the City of Henderson, Nevada. Attached is a Fact Sheet with some background information on the NERT Site and the NDEP Downgradient Investigation Area. In connection with the NDEP Downgradient Investigation, NDEP invites you to attend one of the Community Information and Interview Meetings scheduled for **September 2, 2015**. In order to best accommodate the schedules of community residents, the first meeting will begin at 4:00 pm and a second meeting will begin at 7:00 pm at the Henderson Convention Center, 200 S. Water Street, Henderson, Nevada 89015.

At these Community Information and Interview Meetings, we will have a brief presentation regarding the background and history of the NDEP Downgradient Investigation Area and the NERT Site. We will also discuss the planned scope of the NDEP Downgradient Investigation and the current status. Lastly, we will solicit input from members of the community, like you, about any concerns you may have regarding the NDEP Downgradient Investigation, in addition to how and when you would like to receive future information and updates about the on-going investigations. After the presentation, there will be an open forum for additional community input.

If you have any questions regarding the Community Information and Interview Meetings or the NDEP Downgradient Investigation in general, please contact James (JD) Dotchin of NDEP, at (702) 486-2850 x 235 or jdotchin@ndep.nv.gov. Documents related to the NDEP Downgradient Investigation and the NERT Site can be viewed during normal business hours at NDEP's Las Vegas office, 2030 E. Flamingo Rd. Suite 230, Las Vegas NV 89119. File reviews generally require one business day notice. Please contact Christa Smaling at 702-486-2850 x 254 or csmaling@ndep.nv.gov to schedule a file review. In addition, significant milestone documents may be viewed online at <http://ndep.nv.gov/bmi/tronox.htm>.

Thank you for your time and we look forward to seeing you at one of the Community Information and Interview Meetings on **September 2, 2015** scheduled at 4:00 pm and again at 7:00 pm at the Henderson Convention Center. If you are unable to attend either of the Community Information and Interview Meetings, please consider filling out the enclosed Community Interview Questionnaire and returning it to us in the enclosed self-addressed stamped envelope as we greatly value your input as we begin the NDEP Downgradient Investigation and continue the cleanup process at the NERT Site.

Sincerely,

James (JD) Dotchin
Chief Bureau of Industrial Site Cleanup
Nevada Division of Environmental Protection
2030 E Flamingo Rd, Suite 230, Las Vegas, NV 89119
p: 702.486.2850 EXT 235 c: 775.443.5290 f: 702.486.2863
Enclosures

Nevada Department of Conservation and Natural Resources, Division of Environmental Protection (NDEP) announces:

Community Information & Interview Meeting

Discussing the NDEP Downgradient Investigation related to the Nevada Environmental Response Trust (NERT) Site (Formerly known as the Tronox Site and Kerr-McGee Site) located in both unincorporated areas of Clark County and the City of Henderson

Date of Meeting: September 2, 2015
Times: 4:00 pm and 7:00 pm
Meeting Location: Henderson Convention Center
200 South Water Street
Henderson, Nevada 89015

Below is an agenda for both of the scheduled meetings:

- Presentation: NERT Site and NDEP Downgradient Investigation Area background and history
- Presentation: NDEP Downgradient Investigation Area activities and current status
- Public Comment and Discussion: Community concerns, information needs, and desired involvement in the investigation process
- Open Forum: At the close of the presentation and discussion, there will be an open forum for additional community input.

Documents related to the NDEP Downgradient Investigation and the NERT Site may be viewed by appointment during normal business hours at NDEP's Las Vegas office at 2030 East Flamingo Road Suite 230, Las Vegas NV 89119. In addition, significant milestone documents may be viewed online at <http://ndep.nv.gov/bmi/tronox.htm>.

For further information, contact:
James (JD) Dotchin
NDEP Las Vegas Office
(702) 486-2850 x 235
jdotchin@ndep.nv.gov

To schedule a file review, contact:
Christa Smaling
NDEP Las Vegas Office
(702) 486-2850 x 254
csmaling@ndep.nv.gov

Members of the news media or for press inquiries, please contact the NDEP Public Information Officer, JoAnn Kittrell at 775-684-2712

Fact Sheet

Nevada Environmental Response Trust Site Henderson, Nevada

The Nevada Environmental Response Trust (NERT) Site is located within the Black Mountain Industrial (BMI) complex near Henderson, Nevada. The Site, which was previously owned by Tronox LLC (formerly known as Kerr-McGee Chemical LLC), is approximately 346 acres in size and is located 13 miles southeast of Las Vegas, Nevada in an unincorporated section of Clark County, Nevada. It is completely surrounded by the incorporated area comprising the City of Henderson (COH).

Site History

The BMI complex has been the site of industrial operations since 1942 and was originally developed and operated by the U.S. government as a magnesium production plant in support of the World War II effort. Following the war, a portion of the complex was leased by Western Electrochemical Company (WECCO). By August 1952, WECCO had purchased several portions of the complex, including six of the large unit buildings, and produced manganese dioxide, sodium chlorate and various perchlorates. In addition, in the early 1950s, pursuant to a contract with the U.S. Navy, WECCO constructed and operated a plant to produce ammonium perchlorate on land purchased by the Navy. In 1956, WECCO merged with American Potash and Chemical Company (AP&CC) and continued to operate the processes, with the Navy's continued involvement in the ammonium perchlorate process. In 1962, AP&CC purchased the ammonium perchlorate plant from the Navy, but continued to supply the Navy and its contractors material from the operating process. AP&CC merged with Kerr-McGee Corporation (Kerr-McGee) in 1967. This merger included boron production processes in California, which were moved to Henderson and began operation in the early 1970s.



These included elemental boron, boron trichloride and boron tribromide. In 1994, the boron tribromide process was shut down and dismantled. In 1997, the sodium chlorate process was shut down and in 1998, production of commercial ammonium perchlorate ended as well. The ammonium perchlorate production equipment was used to reclaim perchlorate from on-site materials until early 2002, when the equipment was permanently shut down. In 2005, Kerr-McGee Chemical LLC's name was changed to Tronox LLC (Tronox), and in 2009 Tronox filed for bankruptcy. NERT was established as part of Tronox's reorganization and in February 2011 became the owner of the property that was previously owned by Tronox. Tronox currently leases back a portion of the Site from NERT for production of manganese dioxide, boron trichloride and elemental boron. Tronox also operates an Advanced Battery Material (ABM) production process on the Site.



SITE LOCATION

Prior Site Investigation and Remediation Activities

In December 1983, the Nevada Division of Environmental Protection (NDEP) requested that Kerr-McGee investigate the extent of chromium impact in the groundwater beneath the facility. A Consent Order between Kerr-McGee and NDEP, prepared in September 1986, required additional groundwater characterization and the implementation of response activities to address chromium in the groundwater. As a result of the 1986 Consent Order, the treatment of hexavalent chromium in groundwater began in mid-1987. This treatment is on-going today.

In April 1991, Kerr-McGee was one of six companies that entered into a Consent Agreement with NDEP to conduct environmental studies to assess Site-specific environmental conditions resulting from industrial operations and waste disposal practices within the BMI complex. The Consent Agreement specified that, among other things, the companies identify, document, or address soil, surface water, groundwater or air impacts and document measures that have been taken to address environmental impacts from their respective sites. In April 1993, in compliance with the 1991 Consent Agreement, Kerr-McGee submitted the Phase I Environmental Conditions Assessment report to NDEP, which identified areas of environmental impacts resulting from historical manufacturing activities, as well as assessed the geologic and hydrologic setting of the Site. During the mid to late 1990s, Kerr-McGee collected additional data to fill identified data gaps by investigating past operator records as well as through field sampling.

In 1997, perchlorate was discovered in the vicinity of the Las Vegas Wash and this aspect of the environmental response was placed on a fast-track. An investigation and engineering evaluation was on-going in the late 1990s, along with the installation of a seep water collection system adjacent to the Las Vegas Wash to mitigate the discharge of perchlorate. In November 1999, Kerr-McGee began operation of a temporary ion exchange (IX) treatment system to treat perchlorate-impacted groundwater. Also in 1999, Kerr-McGee and NDEP entered into a Consent Agreement, which defined additional response requirements and looked forward to a treatment process that would replace the temporary IX treatment system. After considerable research and process development, a replacement treatment technology was developed. In October 2001, Kerr-McGee and NDEP entered into an Administrative Order on Consent (AOC) that defined the replacement treatment process, which required Kerr-McGee to install additional extraction well fields and construct an on-site groundwater treatment facility. The groundwater extraction and treatment system (GWETS) for treatment of perchlorate has operated continuously at the Site since 2002. The current groundwater treatment facility includes granular activated carbon and biological fluidized bed reactors. Following treatment, the treated groundwater is discharged to Las Vegas Wash under a National Pollutant Discharge Elimination System (NPDES) permit. Semi-annual and annual remedial performance reports covering performance data for both the chromium and perchlorate remediation programs are submitted to NDEP each year.

In 2004, lists of Site-related raw materials, process chemicals, intermediates, and products from current and previous manufacturers was developed and in 2005, a Conceptual Site Model ("CSM") was prepared for the Site, which consolidated information gathered regarding environmental impact, both known and potential.

Based on the CSM, Tronox (formerly Kerr-McGee) designed and implemented two soil sampling programs (known as Phase A and B Source Investigations) that were completed in 2006 and 2009, respectively. These investigations identified a number of constituents in excess of NDEP Basic Comparison Level (BCL) criteria within the upper 10 feet of soil, including dioxin toxic equivalents (TEQ), hexachlorobenzene, other

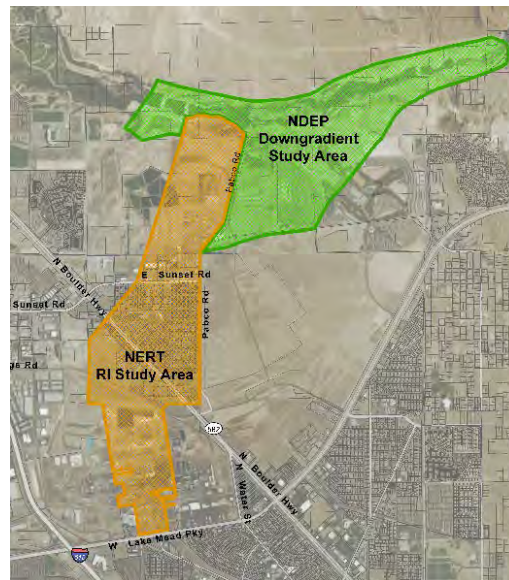
semivolatile organic compounds, polychlorinated biphenyls (PCBs), asbestos, metals, organochlorine pesticides, and perchlorate. In an order dated December 14, 2009, NDEP directed Tronox to remove all soil containing chemicals of potential concern in excess of worker BCLs (or site-specific goals agreed upon by NDEP) from the Site by the end of 2010. Tronox began the soil removal project in August 2010, but it was not completed when the Site was transferred to NERT on February 14, 2011 as part of the Tronox bankruptcy proceedings. Although the Kerr-McGee/Tronox consent agreements and AOCs were terminated as a result of the bankruptcy proceedings, NERT completed the interim soil removal program in November 2011, consistent with an Interim Consent Agreement between NDEP and NERT effective as of February 14, 2011.

As of January 1, 2012, approximately 930,000 tons of contaminated soil had been excavated. An interim soil removal action completion report was prepared in January 2012 and revised in September 2012. Certain impacted soils within the remediation zones that could not be excavated due to physical constraints or other access issues were designated as Excavation Control Areas (ECAs) and are addressed through the Site Management Plan (SMP), Revision 1, dated October 2013. The SMP describes procedures to address the known remaining environmental conditions at the Site, as well as contingency actions to be taken if previously unknown environmental conditions are encountered.

Recent groundwater monitoring results indicate significant capture and ongoing reduction of the perchlorate and hexavalent chromium plumes. Since 2000, perchlorate concentrations in Las Vegas Wash have declined by more than 90% due in part to the groundwater capture system operation. The GWETS continues to operate.

Current Activities – NERT Remedial Investigation

In accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and pursuant to the Interim Consent Agreement, NERT initiated a Remedial Investigation (RI) in 2014. The NERT RI Study Area is shown on the figure to the right. Chromium and perchlorate found in groundwater in this area appears to have originated from the NERT Site where the chemicals seeped into the ground, leached through the soil to groundwater, and then flowed with groundwater through the NERT RI Study Area. The objectives of the RI are to characterize the NERT RI Study Area conditions and the nature and extent of environmental impacts, assess potential risks to human health and the environment, and to evaluate potential performance and cost effectiveness of various treatment or clean-up technologies. The RI is currently being conducted and will support the upcoming Feasibility Study (FS). The objectives of the FS are to develop, compare, and evaluate clean-up options and technologies for the NERT RI Study Area prior to the selection of a preferred clean-up alternative.



To implement the RI/FS, NERT developed a draft RI/FS Work Plan describing the proposed actions to meet the RI/FS objectives. The Work Plan was submitted to NDEP on January 10, 2014 and reviewed by NDEP, the U.S. Environmental Protection Agency (USEPA), and the Stakeholders, including the Las Vegas Valley Water District, Southern Nevada Water Authority, City of Henderson, Central Arizona Project, and the

Metropolitan Water District of Southern California. NDEP and Stakeholder comments were compiled by NDEP and provided to NERT, which were addressed in a revised RI/FS Work Plan submitted to NDEP on June 19, 2014. The revised Work Plan was approved by NDEP on July 2, 2014 and the RI was initiated in October 2014. The RI activities currently underway include performing soil and groundwater sampling, compilation and analysis of environmental data, evaluation of potential risks to human health and the environment, quantifying the movement and behavior of chemicals in groundwater through the development of a groundwater model, and the implementation of pilot studies of environmental clean-up technologies. The RI is anticipated to be performed during 2015 and the first half of 2016, with the FS being performed throughout 2016 and into 2017.

Current Activities – NDEP Downgradient Investigation

Concurrent with NERT's RI, NDEP is leading an investigation to evaluate potential NERT Site-related perchlorate impact to the subsurface and Las Vegas Wash in an area to the north and east of the NERT RI Study Area. This area is known as the NDEP Downgradient Study Area and is shown on the figure on the previous page. Perchlorate found in groundwater in this area may have come from the NERT Site either 1) by leaching through the soil column and then flowing with groundwater into the NDEP Downgradient Study Area, or 2) by being transported through former facility ditches to former unlined waste disposal ponds located near and within the NDEP Downgradient Study Area before seeping into the ground, leaching through soil, and flowing with groundwater. The purpose of the NDEP Downgradient Study Area investigation is to collect additional data to evaluate the nature and extent of perchlorate in groundwater in this expanded area. Currently (May 2015), NDEP is in the process of preparing a request for proposal (RFP) for contractors to submit proposals to conduct the investigation scope of work later in 2015 and 2016.

Project Documentation

In accordance with the approved Community Involvement Plan (CIP), project documents are available to the public in a document repository at the NDEP office located at 2030 E. Flamingo Road, Suite 230, Las Vegas, Nevada. A project document repository is also accessible on the internet at <http://www.nert-trust.com/>, which can be accessed from any internet access location including at the James I. Gibson Library at 100 W. Lake Mead Parkway in Henderson, Nevada.

A project milestone schedule covering the overall progress of current and future site activities is available on the NDEP web site (<https://ndep.nv.gov/bmi/tronox.htm>).

For More Information

If you have questions regarding the activities at the NERT Site, please contact the Community Involvement Coordinator at NDEP:

James Dotchin
Chief Environmental Programs
Bureau of Industrial Site Cleanup
Nevada Division of Environmental Protection
2030 E. Flamingo Road, Suite 230
Las Vegas, NV 89119
(702) 486-2850 x235

Interview Questionnaire

Nevada Environmental Response Trust Site Henderson, Nevada

1. Would you like to receive additional information regarding the NERT Site, the NERT RI Study Area, or the NDEP Downgradient Study Area (“Study Areas”) described in the Fact Sheet? If so, how would you prefer to receive such information?

2. What information regarding the NERT Site or the Study Areas would you most like to know?

3. In your opinion, what information is most important and/or relevant to the community with regard to the NERT Site or the Study Areas?

4. You are free to respond anonymously, however, if you would like to be contacted directly, please provide your name, address, phone number and e-mail address, if applicable.

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Downgradient Investigation and the NERT Site may be viewed by appointment during normal business hours at NDEP's Las Vegas office at 2030 East Flamingo Road Suite 230, Las Vegas, NV 89119. In addition, significant milestone documents may be viewed online at <http://ndep.nv.gov/bmi/tronox.htm>. Members of the news media or for press inquiries, please contact the NDEP Public Information Officer, JoAnn Kittrell, at 775-684-2712. For further information, contact James (JD) Dotchin, NDEP Las Vegas Office, (702) 486-2850, ext 235, jdotchin@ndep.nv.gov. To schedule a file review, contact Christa Smaling, NDEP Las Vegas Office, (702) 486-2850, ext 254, csmaling@ndep.nv.gov.

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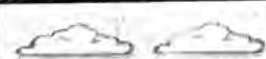
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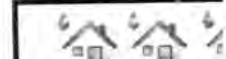
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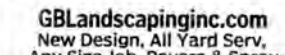
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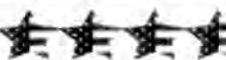
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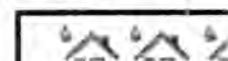


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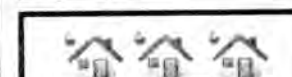
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Announcements

NOTICE OF COMMUNITY INFORMATION AND INTERVIEW MEETING The Nevada Department of Conservation and Natural Resources, Division of Environmental Protection (NDEP) will discuss the NDEP Downgradient Investigation related to the Nevada Environmental Response Trust (NERT) Site (Formerly known as the Tronox Site and Kerr-McGee Site) on September 2, 2015 at 4:00 pm and 7:00 pm at the Henderson Convention Center, 200 South Water Street, Henderson, Nevada 89015. The agenda for both of the scheduled meetings regarding the NDEP Downgradient Investigation related to the NERT Site (located in both unincorporated areas of Clark County and the City of Henderson) will include: (1) a presentation on the NERT Site and NDEP Downgradient Investigation Area background and history; (2) a presentation on the NDEP Downgradient Investigation Area activities and current status; (3) public comment and discussion regarding community concerns, information needs, and desired involvement in the investigation process; and (4) an open forum at the close of the presentation and discussion for additional community input. Documents related to the NDEP Downgradient Investigation and the NERT Site may be viewed by appointment during normal business hours at NDEP's Las Vegas office at 2030 East Flamingo Road Suite 230, Las Vegas, NV 89119. In addition, significant milestone documents may be viewed online at <http://ndep.nv.gov/bmi/tronox.htm>. Members of the news media or for press inquiries, please contact the NDEP Public Information Officer, JoAnn Kittrell, at 775-684-2712. For further information, contact James (JD) Dotchin, NDEP Las Vegas Office, (702) 486-2850, ext 235. jdotchin@ndep.nv.gov. To schedule a file review, contact Christa Smaling, NDEP Las Vegas Office, (702) 486-2850, ext 254. csmailing@ndep.nv.gov.

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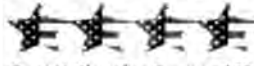
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Community Involvement Plan, Revision 4
Nevada Environmental Response Trust Site
Henderson, Nevada

ATTACHMENT E-6
SEPTEMBER 2, 2015 COMMUNITY INTERVIEW
MEETING PRESENTATIONS AND SIGN-IN SHEETS

**NERT REGIONAL
DOWNGRADIENT INVESTIGATION
NEVADA ENVIRONMENTAL RESPONSE TRUST SITE
HENDERSON, NEVADA**

September 2, 2015

4:00pm & 7:00 pm

Henderson Convention Center

200 South Water Street

Henderson, Nevada



www.ndep.nv.gov

Welcome and Introductions

- **State of Nevada Division of Environmental Protection (NDEP)**
 - Greg Lovato (Deputy Administrator)
 - James (JD) Dotchin (Chief, Bureau of Industrial Site Cleanup)
 - Weiquan Dong (PE Specialist, NERT Project)
 - Carlton Parker (Environmental Scientist)
 - Jo-Ann Kittrell (Division Public Information Officer)
 - Christa Smaling (Administrative Assistant)
- **Broadbent & Associates (NDEP Contractor)**
 - Kirk Stowers (Principal)

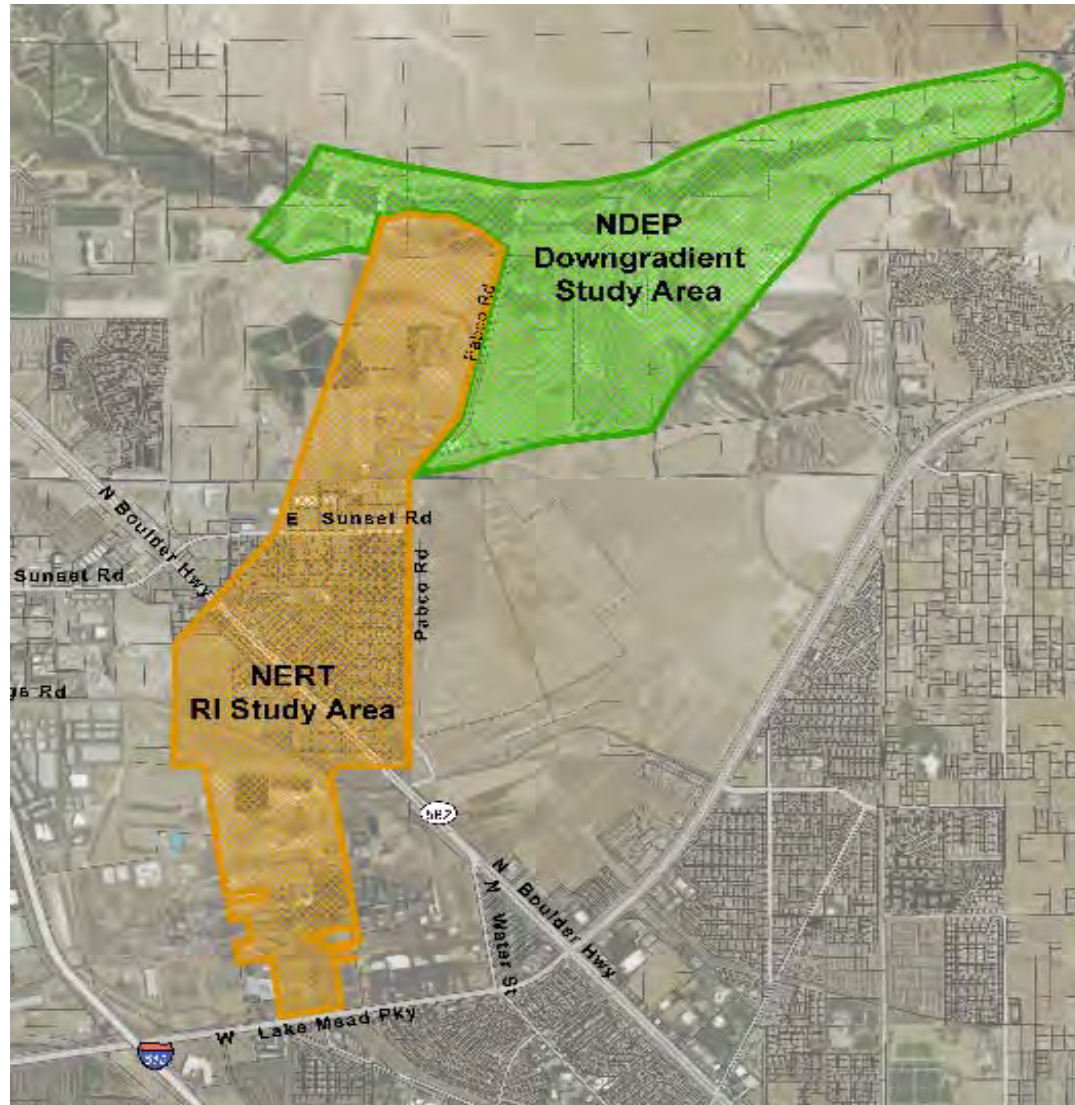


Purpose of This Meeting

- This meeting is focused on the NDEP –lead NERT Regional Downgradient Investigation (**NDEP Downgradient Study Area**).
- Present background on the Nevada Environmental Response Trust (NERT) Site.
- Present scope and the schedule of the NDEP-lead Downgradient Investigation and the parallel investigation and ongoing cleanup by the NERT.
- Take your questions and answer them as best we can.
- Hear from you on how and when you would like to receive future information and updates.
- Explain how you can provide input to this investigation and cleanup process.



NDEP Downgradient Study Area



Topics

- Key Information about the Site and Study Area
- Presentation on NERT activities
- Describe NDEP Downgradient Study Area
- Review basics on perchlorate
- Brief review of area historical and future land use
- NDEP investigation and schedule
- Review of some questions received to date
- Explain how you can provide input to this investigation and cleanup process
- Q&A



Key Site Information

- Drinking water in Henderson comes from Lake Mead, not directly from groundwater.
- Drinking water from Lake Mead meets all drinking water standards.
- Perchlorate contamination in the groundwater does not pose an imminent health risk in any of the homes or property in or around the investigation area.



Key Site Information

- NDEP is notifying people in the area to give the community a chance to ask questions and to provide information to the NDEP.
- This meeting is part of the notification and community involvement process typically used at larger cleanup sites overseen by the NDEP or US Environmental Protection Agency.
- The NDEP provides oversight over the NERT and approves of all NERT Budgets and Work at the site.



NERT Presentation



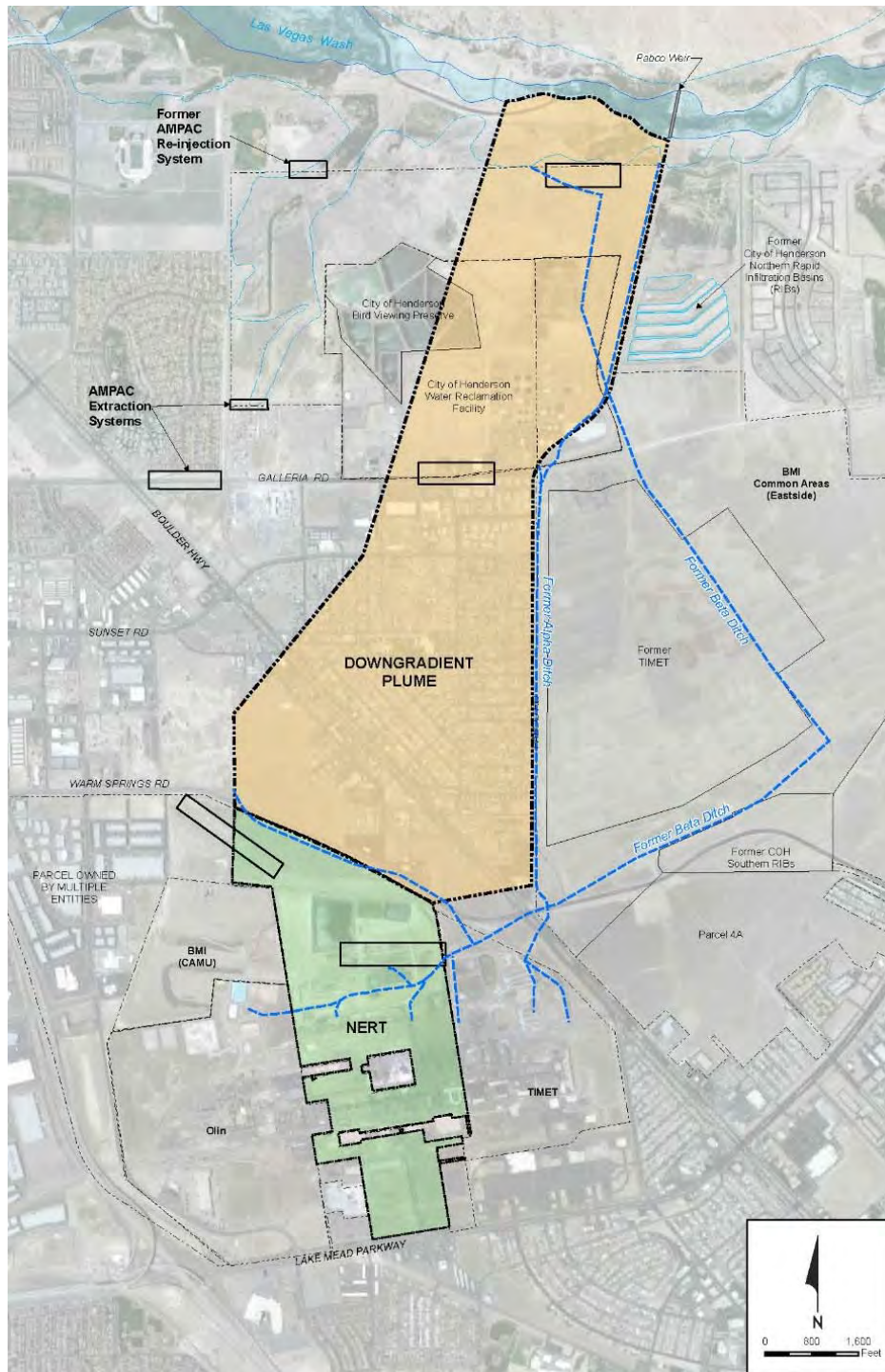
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NEVADA ENVIRONMENTAL RESPONSE TRUST SITE HISTORY AND CURRENT STATUS

SEPTEMBER 2, 2015

NEVADA ENVIRONMENTAL RESPONSE TRUST (NERT) SITE

- ~350 Acre Site (not including downgradient plume)
- Located in Henderson, NV
- ~114 Acre Active Industrial Facility (Tronox, LLC)
- Adjacent Active Industrial Facilities (TIMET, L'Hoist, Olin, and Others)



SITE HISTORY

OWNERSHIP AND OPERATION OVERVIEW

- 1940s Magnesium Production for WWII effort (US Gov't)
- 1950s-60s Manganese dioxide, sodium chlorate, perchlorates (WECCO, American Potash & Chemical Co., United States Navy)
- 1970s Elemental boron, boron trichloride and boron tribromide production began (Kerr-McGee)
- 1990s Production ceased: boron tribromide (1994), sodium chlorate (1997), and ammonium perchlorate (1998)
- 2005 Kerr-McGee became Tronox LLC
- 2009 Tronox LLC filed for bankruptcy
- 2011 Tronox LLC reorganization; NERT established

SITE HISTORY

ENVIRONMENTAL OVERVIEW

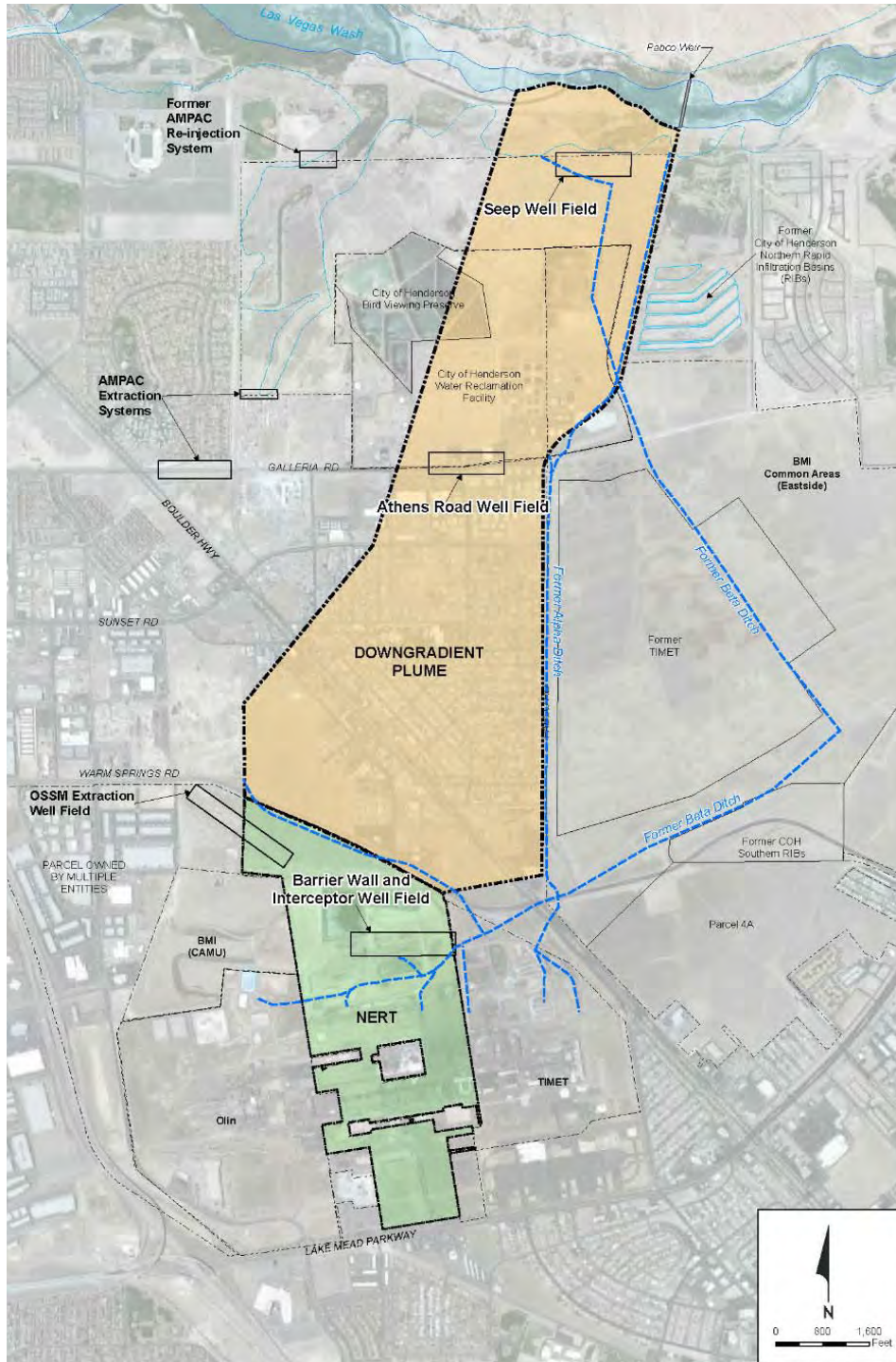
- 1986-87 Installation of on-site groundwater extraction (IWF) and chromium treatment system
- 1997 Perchlorate detected in Colorado River
- 1999 Perchlorate seep found at Las Vegas Wash - capture sump and treatment system installed
- 2001-03 Expanded groundwater extraction (SWF) and treatment system installed – additional extraction system (AWF) installed to the south
- 2009-11 Interim Soil Removal Action implemented
- 2014 Remedial Investigation/Feasibility Study (RI/FS) Work Plan approved
- Present On-going groundwater monitoring
RI/FS Implementation
Optimization of Groundwater Extraction/Treatment
Health Risk Assessment

GROUNDWATER EXTRACTION AND TREATMENT SYSTEM (GWETS)

- Three discrete extraction well fields
 - On-Site: Interceptor Well Field (IWF)
 - Galleria Drive: Athens Road Well Field (AWF)
 - Near Las Vegas Wash: Seep Well Field (SWF)

- On-site groundwater treatment facility - permitted discharge under the Clean Water Act (NPDES)
 - Carbon adsorption
 - Chemical precipitation
 - Fluidized-bed biological treatment
 - Discharge to Las Vegas Wash

- Stable operation and consistent compliance with NPDES permit limitations



GROUNDWATER MONITORING

- ~300 Groundwater Wells monitored regularly
 - ~140 wells sampled monthly
 - ~170 wells sampled quarterly
 - ~300 wells sampled annually

- Treatment plant monitoring as required by permit

- Primary chemicals monitored are chromium and perchlorate

- Also monitoring for total dissolved solids (TDS), nitrate, chlorate, and pH

SITE REMEDIATION STRATEGY

Remediation Program – Primary Issues

- Groundwater plume containing perchlorate and other chemicals extending off-site to the north
 - Primarily in the shallow (alluvial) aquifer

- Residual On-Site Sources
 - Deep (generally >10 feet) soils containing perchlorate and other chemicals
 - Inaccessible soils containing perchlorate and other chemicals

REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS)

- RI/FS Work Plan (approved July 2014)
 - Summary and Analysis of Existing Site Data
 - Identified Data Gaps
 - Developed Sampling and Analysis Plan
 - Preliminary Identification of Likely Response Scenarios and Remedial Action Objectives
 - Treatability and Pilot Studies

- Remedial Investigation (RI) (in progress)
 - Data Gap Investigation (approximately 450 soil samples and 250 groundwater samples collected)
 - Data compilation and analysis
 - Capture Zone Evaluation and Groundwater Model Development
 - Treatability Studies
 - Baseline Risk Assessment

NDEP Downgradient Study Area

- **Where is it?**

- From Sam Boyd Stadium in the west to Lake Las Vegas in the east and from Galleria Road in the south to the Las Vegas Wash in the north.

- **Why are we doing this investigation?**

- Evaluate potential NERT site related perchlorate impact to the soil, groundwater, and the Las Vegas Wash.
- Determine where we should target cleanup of perchlorate
- Proximity to Las Vegas Wash

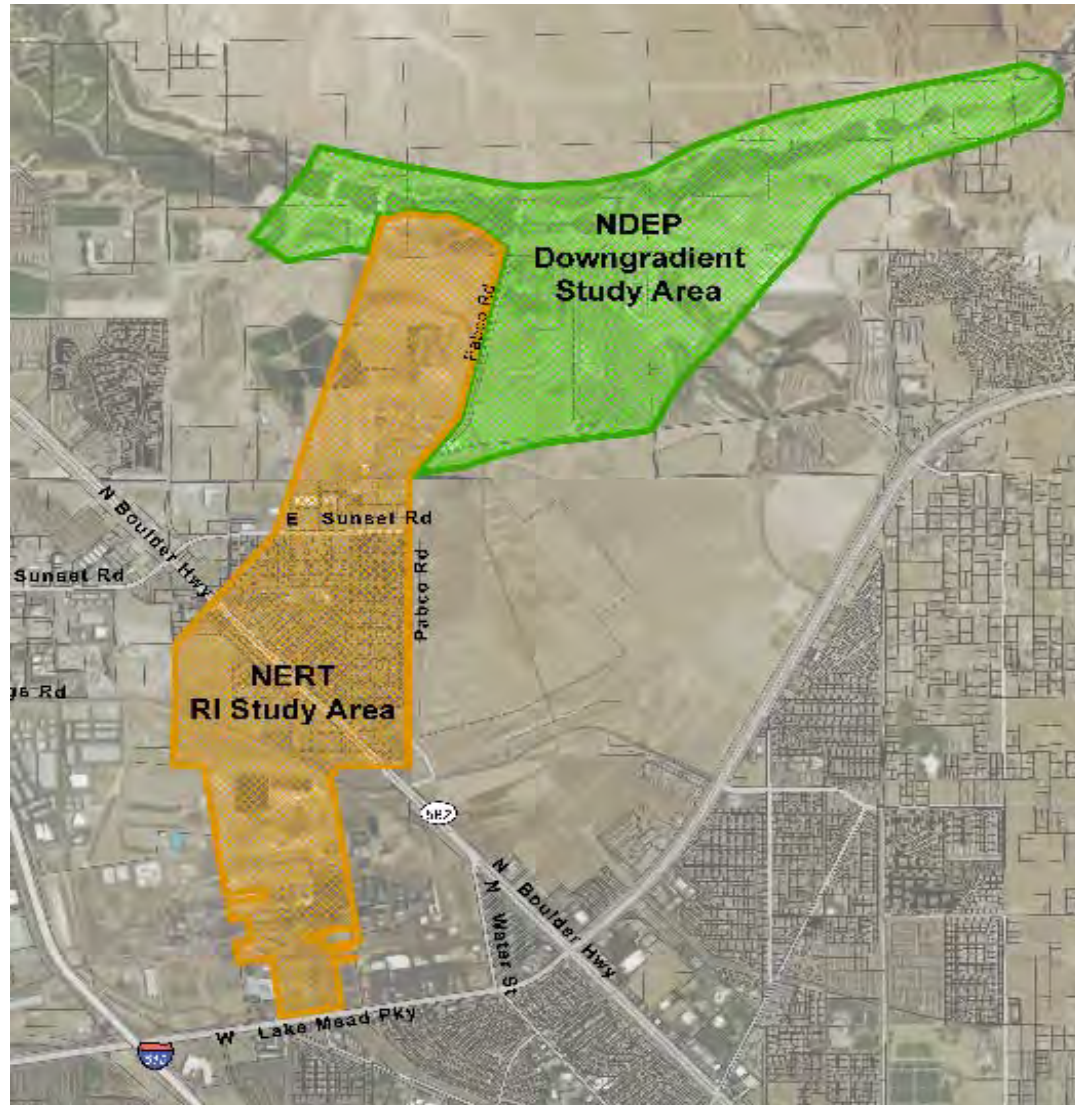
- **NDEP's investigations in the downgradient area will be concurrent with the Nevada Environmental Response Trust's investigation in the core plume area.**



Regional Map



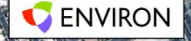
NDEP Downgradient Study Area



Nevada Environmental Response Trust Project Area and Surrounding Land Ownership

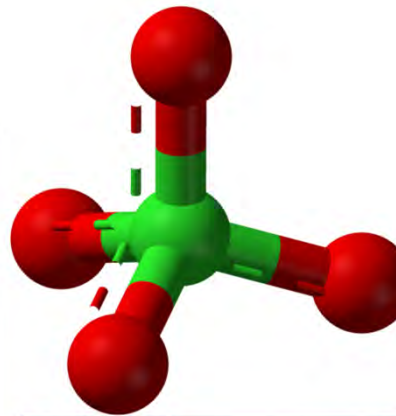


Data Sources:
City of Henderson 2015 Parcel Data
Aerial Photograph, circa August 2008,
Provided by The Landwell Company



What is Perchlorate Anyway?

- Ammonium Perchlorate – NH_4ClO_4
- White crystalline salt that is very soluble in water
- Powerful Oxidizer most commonly used in solid rocket propellant. (NASA, Military, Fireworks, and hobby rockets)

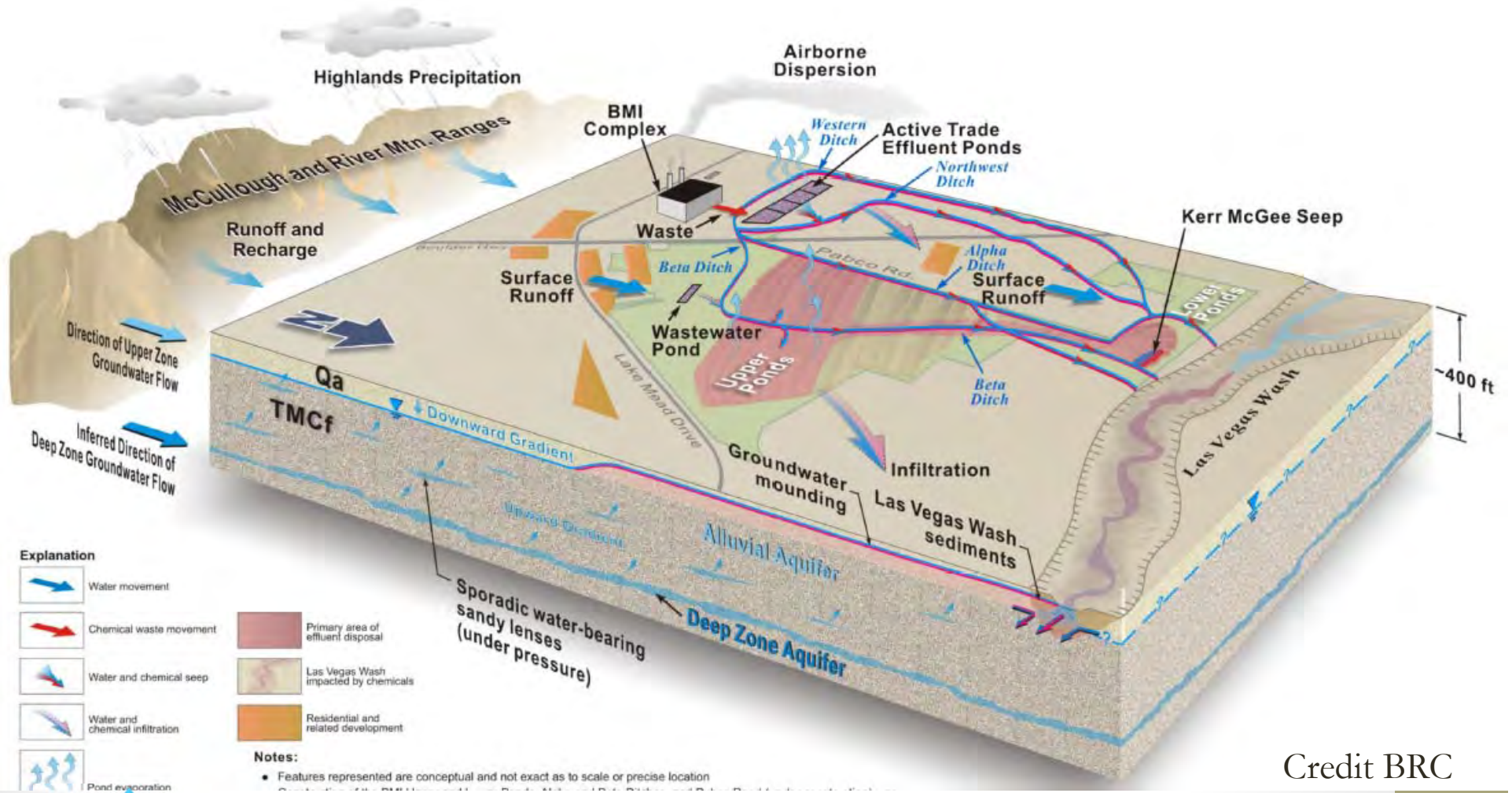


Potential Origins of Perchlorate in Groundwater in the Study Area

- Available information indicates that perchlorate from former operations at the NERT Site:
 - Leached down through the soil column into groundwater, which then flowed into the NDEP Downgradient Study Area.
 - Was transported through former ditches to former unlined waste disposal ponds located near and within the NDEP Downgradient Study Area before seeping into the ground, leaching down through soil, and flowing through groundwater.
 - Discharged from groundwater into the Las Vegas Wash



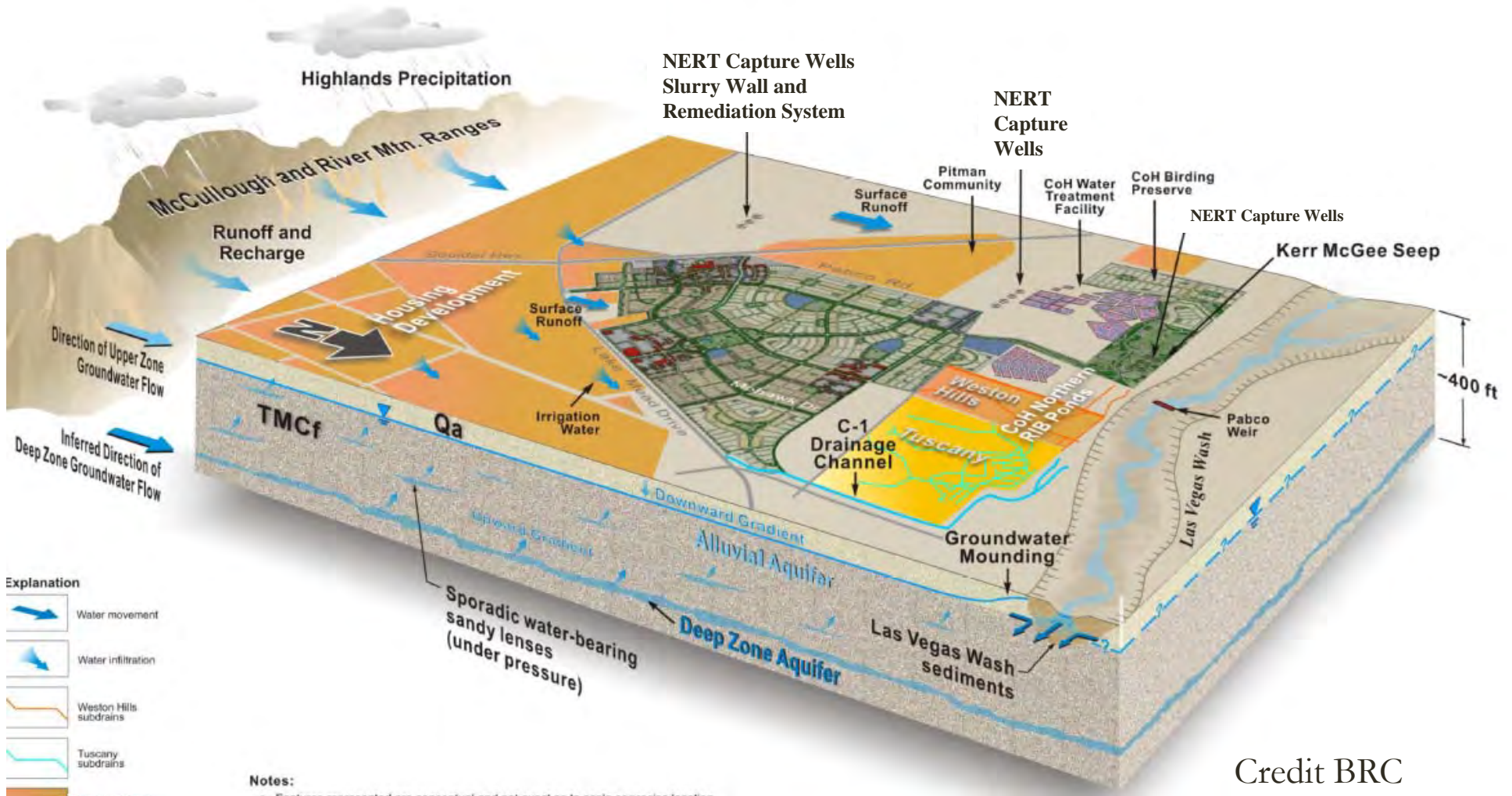
BMI Area Land Use 1943



Credit BRC



Future Land Use



Credit BRC



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Downgradient Study Area Investigation

- The purpose of the NDEP's Downgradient Study Area Investigation is to review existing data and collect additional data to evaluate the nature and extent of perchlorate in groundwater in the Study area.
- The NDEP is in the process of selecting a contractor to conduct the investigation and expects to have this completed by November of 2015.
- The NDEP Downgradient Study Area Investigation will begin in late 2015 and will take approximately two (2) years to complete.



Downgradient Study Area Investigation Cont.

- You may see the NDEP and our selected Contractor(s) in the field collecting data.



What does all of this mean?

- **The NDEP and the NERT will use the information gathered from the two investigations to develop a plan to remediate the environmental impacts both on and off Site.**

What Comes Next

- 2016-2018 – NDEP Downgradient field work
 - Data Collection
- 2018-2019 – NERT Feasibility Study
 - Evaluate all options from no additional action to possible remedies
- 2019 – Final Remedy Selection
 - Formal selection of a remedy



What Comes Next Cont.

- 2020 – Design/Bid
 - Remedy Design, contractor selection
- 2021 – Permitting/Access Agreements
- 2022 – Start Construction on Final Remedy
 - Construction and operation and maintenance will be on-going for a number of years
- **The NDEP and the NERT will keep the Community involved and informed at each stage of the process.**



Questions Received

- **Is my drinking water impacted?**
 - No, our drinking water comes from Lake Mead which meets all drinking water standards.
- **Is this information public knowledge?**
 - Yes, the Administrative Record is available for review in our NDEP Las Vegas office located at 2030 E Flamingo Rd, Suite 230, Las Vegas, NV. 89119 or on the NDEP website at <http://ndep.nv.gov/bmi/tronox.htm> .
- **Where is the source (Site?) in relation to my home?**
 - The NERT Site (Formerly Kerr-McGee and Tronox Site) is located in the Black Mountain Industrial Complex on Lake Mead Parkway.



Questions Received Cont.

- **Is there a soil or groundwater study in the area of my home?**

- The Administrative Record is available for review in our NDEP Las Vegas office located at 2030 East Flamingo Rd, Suite 230, Las Vegas, NV 89119 or on the NDEP website at <http://ndep.nv.gov/bmi/tronox.htm> .

- **Can I grow my own vegetables?**

- Yes, the information compiled to date shows that the soils in the study area and in the surrounding residential areas are not dissimilar to any other area in the Las Vegas Valley.

- **Do developers have information to inform potential buyers?**

- Yes, developers in the area have been given information about this issue.



Questions Received Cont.

- **Where can I find any information related to potential cancer risks or health risks to humans and animals?**
 - Yes, this information is available through the NDEP website <http://ndep.nv.gov/bca/perchlorate05.htm>
- **Does this impact the air in my home or outside?**
 - Since perchlorates are salts they do not impact the air inside homes (no vapor intrusion) or in the ambient air outside.
- **Is Perchlorate or other chemicals getting into the Lake Mead and the Wash?**
 - Yes. Since perchlorate was discovered in Lake Mead in 1997, levels have been reduced by over 90%. The purpose of this Investigation is to find the most effective means to reduce this even further.



Questions from the Audience

- Please use the microphone
- The NDEP will use any comments received to improve our investigation and help formulate an effective Community Involvement Plan for the NDEP-lead Downgradient Investigation.



Thank you

If you have questions regarding the activities at the NERT Site, please contact the Community Involvement Coordinator at NDEP:

James (JD) Dotchin

Chief

Bureau of Industrial Site Cleanup

Nevada Division of Environmental Protection

2030 E. Flamingo Road, Suite 230

Las Vegas, NV 89119

(702) 486-2850 x235

jdotchin@ndep.nv.gov

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and the Nevada Environmental Trust
Community Information and Interview Meeting
Sept. 2, 2015

4 pm

NAME	Address	PHONE NUMBER	Email Address	Do you want to receive Information in the future?
SILVIA VILLANUVA		702-372-0710	SILVIA@ROWEIANNV.COM	yes
ARIK NAITIER		702-3553977	ARIK410COX.NET	yes
DARRYL BAYLES		310 9363442	BRKRDAVE@GMAIL.COM	yes
Ama Emery		(909)633-4111	pinkyemery@gmail.com	yes
Rob McPeak		702 8734100	rmepeak@mcwofw.com	yes
Nick Pandorell		661 2592036	Pandorellie@SBCGlobal.net	yes
Kim Aldrich		949-813-9557	Kim.aldrich@lennar.com	yes
Jerry Postrik		702-666-9714	968 FISHING ST	yes
Michael Batten		702-897-1424	mbatten@geotekusa.com	yes
Gregory A. Bruce		702-244-1150	602@GSPKH.COM	yes
Ronald Hopper		702 812 6050	Vhopper@3cabc.org	yes
Paul Kenner		702 400-6591	phawank@msd.com	yes

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Community Information and Interview Meeting
Sept. 2, 2015

4 pm

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KEITH JAY	GOODSPRINGS, NV P.O. Box 644 89019	702-362-6424	@GMAIL.COM KEITH.ALLSTATE.NV	YES
DON BALDWIN	572 VIA CIVILINO HENRIKSON 89011	512 4709 702 512	Don Baldwin @AOL.COM	YES
HELEN T. KELLY	968 RUE GRAND PARADISE LN	702 738 8715	HELEN@GMAIL.COM	YES
ANDREA KELLY	968 Rue Grand Paradise Ln	702 812464	ChocoSuggs@ yahoo.com	yes
Robert McCray	964 Rue Grand Paradise Ln 89011	702 410-7580	deco7lee@msn.com	Yes
JOHN M. POONICH	30 STEWARD DR #411	412 848-276	Jmpo1970@gmail.com JA	Yes
Delia Price	902 Rhyolite Ter 89011		Hypriice@gmail.com	yes
Leslie Turner	900 Rhyolite	702 546 3420	lt3189@gmail.com	Yes
Douglas Rigiroszi	740 Arden Valley Ave	719 2401250	drigiroszi@yahoo.com	yes
STEVE BLAK	461 E SUNSET ROAD	702 232-4032	pegasus@suncoastgrfx.com	YES
Jerry Dilts	21 Villa Marsala Ct.	702 402 897-0788	jrdilts@charter.net	yes
VICTOR ARRIAZA	5090 MASCARO DR 45 VEGAS NV 89159			

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and the Nevada Environmental Trust
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Sept. 2, 2015

4 pm

NAME	Address	PHONE NUMBER	Email Address	Do you want to receive Information in the future?
Kimberly Kuwabara			kim.kuwabara@gmail.com	
Elise Post			elisepost@gmail.com	
Liliana Robiglio	Henderson 1101 Gendale 89011		lrobiglio@hotmail.com	
Brenda Pohlman	240 West St Henderson NV	267-1304		
Brian Gwbb.	2300 W. Sahara, #1200 LV NV 89102			
Victoria Tyson Blayd	515 Via R. pagrande 89011	702 2191578	VictoriaTysoncontracting.com	
R.K St. Germain	1070 Via Saint Lucia 89011	206 650-5541	strik89@icloud.com	yes
Bill Stein	5675 Cascadia CT	701-202-3571	soundman00@yahoo.com	yes
Jay Gougar	941 San Carlos Creek	702-812-3956 702-812-3956	jgougar@cox.net	Yes
ALEXANDRA FAZEKAS	719 VALLE RIVERA AVE	405-413-1833	alejandra.fazekas@cityofhenderson.com	YES
Cindy Hoopes	2335 TILDEN way	702 682 264	cwhoops@gmail.com	yes

Nevada Department of Conservation and Natural Resource, Division of Environmental Protection (NDEP)
and the Nevada Environmental Trust
Community Information and Interview Meeting
Sept. 2, 2015

4 pm

NAME	Address	PHONE NUMBER	Email Address	Do you want to receive Information in the future?
MIRZA SMUL	89122 LAS VEGAS 5604 ALLISON CT	702 454-5522		YES
Robt Kathy White	980 Crescent Falls	702 4637226		yes
LeRoy Wilkinson	601 Indian Row	702-547-4081		No
Valerie Stout	988 Olivia Pkwy	702 5450188		No
Todd Tretjen	SNA A	702 8565045		
Jenice Bromo		702 557-1903 557	jenicedromo@daydreamy	yes
Susan Bourke	1069 Via Pradoln Hend, NV 89011	(702) 767-7771	sdd410@interactccsd.net	yes
Chuck Bourke	" "			

Nevada Department of Conservation and Natural Resource, Division of Environmental Protection (NDEP)
and the Nevada Environmental Trust
Community Information and Interview Meeting
Sept. 2, 2015

7 pm

NAME	Address	PHONE NUMBER	Email Address	Do you want to receive Information in the future?
Phil Erekson	178 Channel Dr.	702-595-8541	perekson@gmail.com	Yes
Stephanie Jays	176 Gascony Pl.	408-637-0547	seinnapz3eyahoo.com	Yes
Nick Appyly	980 Sable Chase Pl.	702-327-5033	Applebug@hotmail.com	Yes
Juliet McCawley	828 Angelus Oaks Dr.	702-434-7676	Punkin1244@aol.com	Yes
Brian Emery	544 Van Dornum ave Henderson NV	909-560-4165	lvmed@cox.net	Yes
Mhret Gatte	6958 majestic palm Dr	702-325-8553	—	Yes
Yisroon Binon	6958 majestic plm.	702-328-3182	—	Yes
B+W Knouff	Henderson, NV			
CHARLES + CATHERINE	1028 PLEASANT Rm G. HENDERSON	702 209-7611	fogber@yahoo.com	YES
Jonathan ZAMORA	1090 Via Santa Lucia Henderson, NV	702 260-4851	eptye@yahoo.com	Yes
Bendra Hardy	189 Elk Cove Ct. Henderson, NV 89011	751-537-2422	waterchick81@gmail.com	Yes
Alexis Johnson	980 Sable chase PL Henderson, NV 89011	702-743-3484	goodgirllexi@hotmail.com	Yes

Nevada Department of Conservation and Natural Resource, Division of Environmental Protection (NDEP)
and the Nevada Environmental Trust
Community Information and Interview Meeting
Sept. 2, 2015

7 pm

NAME	Address	PHONE NUMBER	Email Address	Do you want to receive Information in the future?
Suzanne & Anthony Baerlocher	19 Arendia Casat.wo	775-250-4674	adidemnr26@gmail.com	Yes
STEVE SPORCIC	964 HERITAGE COVE DR.	702-876-3186	Steve2780@gmail.com	YES
Janice Monteiro	993 Crescent Falls St	702-278-2144	janproll@msn.com	yes
S BEECH	5425 NICKEL CREST DR	(702) 502-4073	Sbeech11@gmail.com	yes
Randall & Karen Thomas	504 Punto Vallarta Dr	(702) 423-1848	Karenmarie358@yahoo.com	yes
John & Veronica Labrada	708 Redbark Ln	702 767-1181	Johninthebigtent@live.com	yes
Lorraine Kalayanaprapwit	5414 Cross Meadows Ln	702 358-7486	KalayanaL@gmail.com	yes
Lee FARRIS	875 W. Warm Springs	702 523-2920	LFARRIS@LANDWELLCO.COM	Yes
Dartini Cartier	1020 Via Placencia	702 431-0813	DartiniCartier@yahoo.com	yes

Community Involvement Plan, Revision 4
Nevada Environmental Response Trust Site
Henderson, Nevada

ATTACHMENT E-7
JANUARY 2016 COMMUNITY INFORMATION
DOCUMENTS PROVIDED IN MAILING



NEVADA DIVISION OF
**ENVIRONMENTAL
PROTECTION**

STATE OF NEVADA
Department of Conservation & Natural Resources

Brian Sandoval, Governor
Leo M. Drozdoff, P.E., Director
David Emme, Administrator

January 29, 2016

**Re: Community Information – Perchlorate Investigation
NDEP-led Downgradient Investigation and Nevada Environmental Response Trust (NERT)
Remedial Investigation (RI)**

Dear Resident:

You are receiving this correspondence because you live in the vicinity of an area being investigated by the Nevada Division of Environmental Protection (NDEP) to evaluate potential perchlorate and other contaminant impacts to the subsurface and Las Vegas Wash related to the Nevada Environmental Response Trust (NERT) site, formerly known as the Tronox site and Kerr-McGee site. The areas being investigated by NERT (known as the “NERT RI Study Area”) and the area being investigated by NDEP (known as the “Downgradient Study Area”) are located in an unincorporated section of Clark County and the City of Henderson, Nevada. Attached is a Fact Sheet with some background information on the NERT RI Study Area and Downgradient Study Area. Also enclosed is the Downgradient Investigation Frequently Asked Questions (FAQ) Sheet, prepared in response to questions received from residents during the Community Interview Meetings held at the Henderson Convention Center on September 2, 2015, as well as those questions that have been provided in Community Interview Questionnaires and via telephone.

If you have any questions regarding the NERT Remedial Investigation or the NDEP-led Downgradient Investigation, please contact James (JD) Dotchin of NDEP, at (702) 486-2850 x 235 or jdotchin@ndep.nv.gov. Consistent with the Community Involvement Plan for the NERT RI Study Area and the Downgradient Study Area, documents related to the NDEP-led Downgradient Investigation and the NERT RI Study Area can be viewed during normal business hours at NDEP's Las Vegas office, 2030 E. Flamingo Rd. Suite 230, Las Vegas NV 89119. File reviews generally require one business day notice. Please contact Christa Smaling at 702-486-2850 x 254 or csmaling@ndep.nv.gov to schedule a file review. In addition, milestone and other NERT site-related documents may be viewed online at <http://ndep.nv.gov/bmi/tronox.htm> and <http://www.NERT-Trust.com>. Computers are available, free of charge, for public use at the James I. Gibson Library at 100 W. Lake Mead Parkway in Henderson, Nevada and other Henderson area libraries.

Sincerely,

James (JD) Dotchin
Chief Environmental Programs
Bureau of Industrial Site Clean-up
Nevada Division of Environmental Protection
2030 E Flamingo Rd, Suite 230, Las Vegas, NV 89119
702.486.2850 x 235

Enclosures

Fact Sheet

Nevada Environmental Response Trust Site

HENDERSON, NEVADA

January 2016

Update on the NERT Remedial Investigation and Downgradient Study Areas

Background Information

The Nevada Environmental Response Trust (NERT) site, which was previously known as the Tronox LLC (Tronox) site and the Kerr-McGee Chemical LLC (Kerr-McGee) site, is located within the Black Mountain Industrial (BMI) Complex in unincorporated Clark County and surrounded by the City of Henderson, Nevada. The NERT site is currently approximately 346 acres.

Soil and shallow groundwater in the vicinity and downgradient of the NERT site is contaminated with perchlorate and hexavalent chromium as a result of industrial operations dating back to 1942. Investigations of chromium-impacted groundwater began in late 1983. Treatment of hexavalent chromium in the groundwater began in mid-1987 and is on-going today. In 1997, perchlorate was discovered in the vicinity of Las Vegas Wash. Removal and treatment of perchlorate using a groundwater extraction and treatment system (GWETS) has occurred continuously since 2002.

Currently, impacted groundwater is pumped from three well fields; one located on-site and two located off-site and downgradient (north-northeast) between the site and Las Vegas Wash. These well fields pump the impacted groundwater out of the ground and convey it to on-site treatment systems through underground pipelines. The current treatment system uses a chemical reduction process to remove chromium from groundwater and fluidized bed reactors (FBRs) to biologically remove perchlorate. The treated groundwater is discharged to Las Vegas Wash under a National Pollutant Discharge Elim-



ination System (NPDES) permit. Remedial performance reports are submitted to the Nevada Division of Environmental Protection (NDEP) semi-annually.

Details about the site history, prior site investigations, remediation, current activities, and prior fact sheets can be found at <http://www.NERT-Trust.com>.

Current Activities

In accordance with the Interim Consent Agreement between NERT and NDEP (effective February 14, 2011), NERT initiated a Remedial Investigation (RI) in 2014. The NERT RI Study Area is shown on the figure above.

The objectives of the RI are to characterize the NERT RI Study Area conditions and the nature and extent of environmental impacts, assess potential risks to human health and the environment, and to identify potential remedial actions. In 2015, extensive sampling of soil and groundwater, including the installation of additional monitoring wells, was conducted in the NERT RI Study Area. The data collected in 2015 are currently being compiled and evaluated.

The RI will support the upcoming Feasibility Study (FS). The objectives of the FS are to develop and evaluate clean-up options and technologies to address soil and groundwater contamination originating from the NERT site prior to the selection of a final remedy.

Concurrent with NERT's RI, NDEP is leading an investigation to evaluate potential NERT site-related impacts to the subsurface and Las Vegas Wash in an area outside the current NERT RI Study Area. This area is known as the Downgradient Study Area and is shown on the figure on the previous page. Perchlorate and other contaminants found in groundwater in this area were primarily transported from the NERT site through a series of unlined ditches which conveyed process wastewaters from the former operations at the NERT site and surrounding industrial facilities and discharged to a series of unlined waste disposal ponds located near and within the Downgradient Study Area. The purpose of the NDEP-led Downgradient Investigation is to collect additional data to evaluate the nature and extent of perchlorate (and other NERT-site related contaminants) in groundwater in this expanded area.

Investigation within the NERT RI Study Area is ongoing and the investigation within the Downgradient Study Area is currently being planned and will begin in February 2016. The investigations will likely include drilling, well installation, and sampling of soil, groundwater and surface water. Below are pictures of the type of drill rig you might see in your neighborhood and what a typical monitoring well looks like from the surface. This effort will be conducted with minimal disturbance to the residences in the area. After the field investigations are complete, collected data will be evaluated. A fact sheet providing an update of these activities will be distributed in 2017.

Where can I find more information?

A summary of important information and milestone documents can be found at <http://www.NERT-Trust.com> and <http://ndep.nv.gov/bmi/tronox.htm>.

If you have additional questions, please contact the Community Involvement Coordinator at NDEP:

James (JD) Dotchin
Chief Environmental Programs
NDEP
2030 E. Flamingo Road, Suite 230
Las Vegas, NV 89119
(702) 486-2850 x235
jdotchin@ndep.nv.gov



Typical Drill Rig to Be Used



Typical Monitoring Well Surface Completion

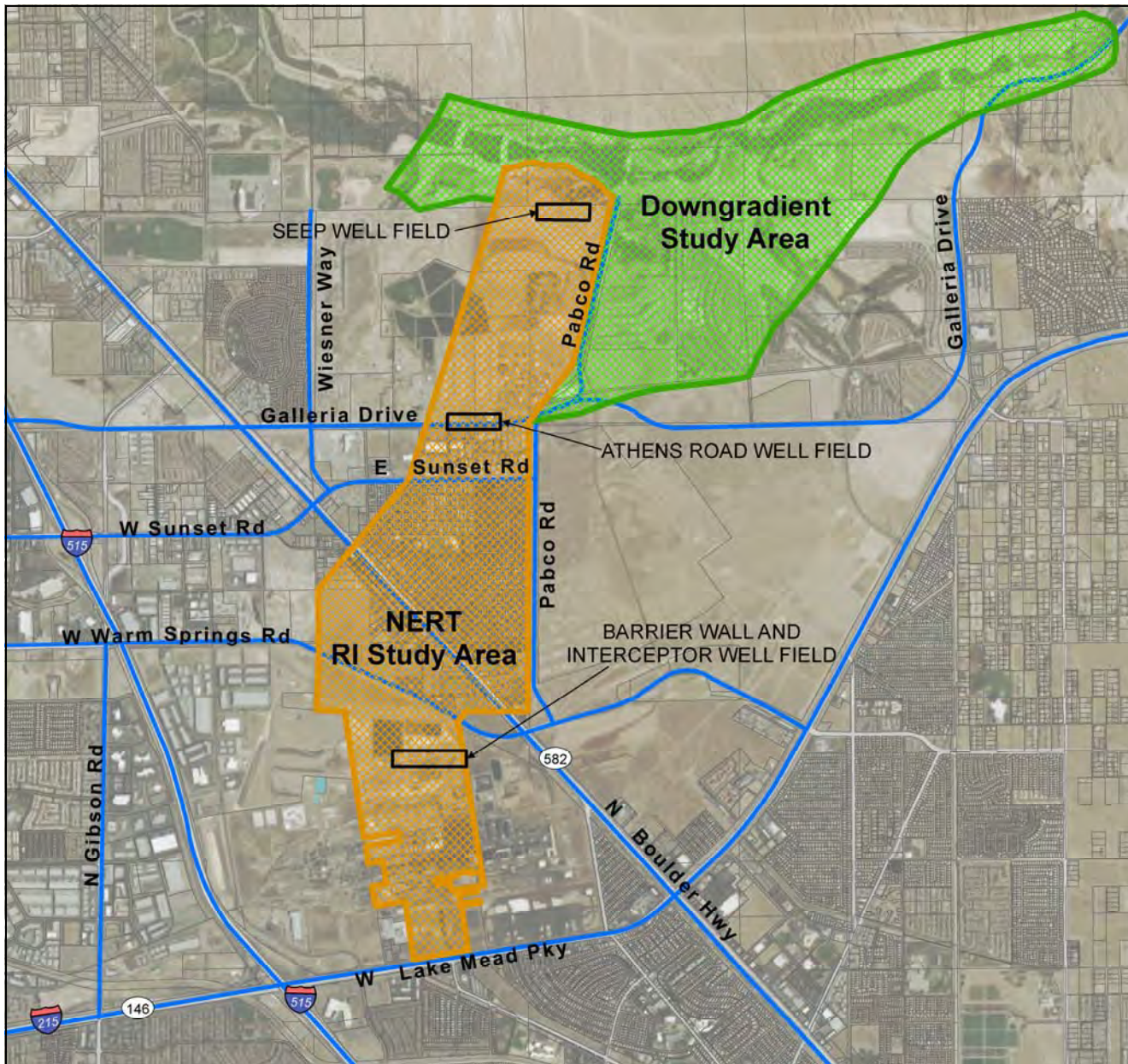
Study Area Map

Nevada Environmental Response Trust Site

HENDERSON, NEVADA

January 2016

Study Area Map for NERT Remedial Investigation and Downgradient Study Areas



NERT Remedial Investigation and Downgradient Study Area Locations

This map shows the Nevada Environmental Response Trust (NERT) Remedial Investigation (RI) Study Area and the Nevada Division of Environmental Protection (NDEP) Downgradient Study Area, in the City of Henderson, Nevada. Information about the RI activities for these areas can be found at <http://www.NERT-Trust.com>.

Downgradient Investigation FAQ Sheet

1. *What is the purpose of the Downgradient Investigation?*

The Nevada Division of Environmental Protection's (NDEP) main purpose and focus is to evaluate the nature and extent of contamination in the area between Galleria Road and the Las Vegas Wash impacted by historic contamination via former ditches and other pathways originating from the former Kerr-McGee and Tronox Site. The Downgradient Investigation is being conducted by NDEP as part of the Nevada Environmental Response Trust's (NERT) ongoing Remedial Investigation, which focuses on the source areas and core plume south of Galleria Road.

2. *What is perchlorate?*

Perchlorate is a white crystalline salt that dissolves readily in water. In its commercial form as a solid, ammonium perchlorate serves as a powerful chemical that contributes to combustion of solid rocket propellant.

3. *What is the source of the perchlorate?*

The source of the perchlorate being investigated as part of the Downgradient Investigation is the NERT Site (formerly owned and operated by Kerr-McGee and Tronox), located within the Black Mountain Industrial Complex on Lake Mead Parkway in Henderson. Kerr-McGee/Tronox ceased production of perchlorate in 1998.

4. *Is my drinking water safe to consume?*

Yes, drinking water for Henderson and the Las Vegas Valley comes from Lake Mead which meets all drinking water standards.

5. *Is perchlorate or other chemicals from the NERT Site getting into the Las Vegas Wash or Lake Mead?*

Yes, perchlorate was discovered in Lake Mead in 1997. Since that time, levels of perchlorate have been reduced by over 90%. The purpose (as stated above) of this investigation is to investigate the nature and extent of perchlorate present in groundwater in the Downgradient Study Area. The Downgradient Study Area is shown on the enclosed map.

6. *What is the United States Environmental Protection Agency (US EPA) drinking water standard for Perchlorate?*

In 2011, the United States Environmental Protection Agency determined that perchlorate is a contaminant under the Safe Drinking Water Act and is in the process of setting a Maximum Contaminant Level for perchlorate in drinking water. Until the US EPA drinking water standard is set, the State of Nevada NDEP has established 18 parts per billion (ppb) in drinking water as a provisional action level based upon an US EPA drinking water advisory. The State of Nevada has determined that 18 ppb of perchlorate in drinking water is a safe level for all uses. The average perchlorate concentration in Lake Mead over the last 10 years has been less than 2.5 ppb.

7. *Has there been or will there be a soil or groundwater study in the area of my home?*

There have already been several rounds of sampling and investigation in the Downgradient Study Area. Depending on the location of your home, an investigation may have already occurred and there may be a report summarizing the environmental conditions in your area. If you would like to know if there has been an investigation in an area of interest you can review the Administrative Record for the Site. As investigations are completed they become a part of the Administrative Record. The Administrative Record is available for review in our NDEP Las Vegas office located at 2030 E. Flamingo Rd, Suite 230, Las Vegas, NV, 89119 and key documents are available on our website at <http://ndep.nv.gov/bmi/tronox.htm>. For future investigations, we will provide community notification of the area of the investigation and post the information on our website.

8. *Is there an imminent health risk to humans or animals in the Downgradient Study Area?*
No, there is no imminent health risk to humans or animals in the Downgradient Study Area. The perchlorate is found dissolved in groundwater and has not been identified in the soils in or around the Downgradient Study Area. Since the groundwater in the Downgradient Study Area is far below any residence and the groundwater is not a source of drinking water there is no imminent health risk to anyone in the Downgradient Study Area.
9. *Can I grow and eat my own vegetables?*
Yes, all information compiled to date shows that the soils in the Downgradient Study Area and in the surrounding residential areas are not dissimilar to any other soils in the Las Vegas Valley. Elevated levels of perchlorate have not been found in any soil samples within the Downgradient Study Area.
10. *Are my plants and landscaping affected by the perchlorate plume?*
No, elevated levels of perchlorate have not been found in any soil samples within the Downgradient Study Area.
11. *Do developers have information to inform potential buyers?*
Yes, current developers in the area have been given information about this issue and have procedures in place to inform potential buyers.
12. *What are the main perchlorate health risks related to humans and animals?*
Perchlorate is an endocrine disrupter; that interferes with the function of the thyroid gland. Additional information and links to other research can be found on our website here:
<http://ndep.nv.gov/bca/perchlorate05.htm>.
13. *Does the perchlorate plume impact the air in my home or outside?*
No, perchlorates are salts and they do not volatilize (evaporate and disperse into vapor). Perchlorate does not affect the air inside homes or the ambient air outside.
14. *Does perchlorate contamination in the groundwater pose an imminent health risk to humans or animals within the Downgradient Study Area?*
No, there is no imminent health risk to anyone in any of the homes or property in or around the Downgradient Study Area. The perchlorate is in the groundwater under the study area and this groundwater is not a source of drinking water, therefore, there is no exposure to humans or animals in the Downgradient Study Area to the perchlorate in the groundwater.
15. *What is the Nevada Environmental Response Trust?*
The Nevada Environmental Response Trust ("NERT") was established by the Bankruptcy Court as part of the settlement agreement entered into in Tronox Incorporated's Chapter 11 Bankruptcy. The exclusive purposes and functions of NERT are to own the former Kerr-McGee/Tronox property in Henderson (NERT Site) and fund the remediation of environmental impacts related to historic operations at the NERT Site.
16. *Who provides oversight over the Nevada Environmental Response Trust (NERT)?*
The NDEP is the lead agency and US EPA is the non-lead agency for purposes of overseeing administration of the NERT and NERT's implementation and funding of environmental actions related to the NERT Site.
17. *Will this affect my property values? Do I need to disclose this to a potential buyer of my home?*
The NDEP is a State of Nevada environmental agency and focuses on environmental matters. NDEP does not have expertise in real estate disclosure requirements. The NDEP recommends you contact your real estate professional to discuss these issues and make an informed decision.
18. *Is all of this information public knowledge?*
Yes, the Administrative Record is available for review in our NDEP Las Vegas office located at 2030 E. Flamingo Rd, Suite 230, Las Vegas, NV. 89119 and key documents are available on our NDEP website at <http://ndep.nv.gov/bmi/tronox.htm>.

Community Involvement Plan, Revision 4
Nevada Environmental Response Trust Site
Henderson, Nevada

**ATTACHMENT E-8
APRIL 2017 COMMUNITY INFORMATION
DOCUMENTS PROVIDED IN MAILING**



April 24, 2017

**Re: Community Information –
Remedial Investigation (RI) of the Nevada Environmental Response Trust (NERT) Site**

Dear Resident:

You are receiving this correspondence because you live in the vicinity of an area being investigated by the Nevada Division of Environmental Protection (NDEP) to evaluate potential perchlorate and other contaminant impacts to the subsurface and Las Vegas Wash related to the Nevada Environmental Response Trust (NERT) site, formerly known as the Tronox site and Kerr-McGee site. The areas being investigated are located on the NERT site, as well as between the site and Las Vegas Wash within the City of Henderson and unincorporated portions of Clark County. The enclosed Fact Sheet includes background information on the NERT site and the on-going remedial investigation (RI).

In connection with the on-going NERT RI, NDEP invites you to attend one of the Community Information and Interview Meetings scheduled for June 21, 2017. In order to best accommodate the schedules of community residents, the first meeting will begin at 4:30 pm and a second meeting will begin at 7:30 pm at the Henderson Convention Center, 200 S. Water Street, Henderson, Nevada 89015.

At these Community Information and Interview Meetings, we will have a brief presentation regarding the background and history of the NERT site, as well as the planned scope of the RI and current status. Lastly, we would like to receive input from you, about any concerns you may have regarding current activities, in addition to how and when you would like to receive future information and updates about the on-going investigations. After the presentation, there will be an open forum for additional community input.

If you are unable to attend either of the Community Information and Interview Meetings, please consider filling out the enclosed Community Interview Questionnaire and returning it to us in the enclosed self-addressed stamped envelope as we greatly value your input as we continue the clean-up process.

If you have any questions regarding the NERT Remedial Investigation, please contact me at (702) 486-2850 x 235 or jdotchin@ndep.nv.gov. Consistent with the Site's Community Involvement Plan, information related to the site can be viewed during normal business hours at NDEP's Las Vegas office, 2030 E. Flamingo Rd. Suite 230, Las Vegas NV 89119. File reviews generally require one business day notice. Please contact Christa Smaling at 702-486-2850 x 254 or csmling@ndep.nv.gov to schedule a file review. In addition NERT site-related documents may be viewed online at www.NERT-Trust.com and <http://ndep.nv.gov/bmi/tronox.htm>. Computers are available, free of charge, for public use at all Henderson libraries, including the James I. Gibson Library at 100 W. Lake Mead Parkway, the Paseo Verde Library at 280 S. Green Valley Parkway, the Green Valley Library at 2797 N. Green Valley Parkway, and the Heritage Park Senior Center Library at 300 S. Racetrack Road.

Sincerely,

A handwritten signature in blue ink, appearing to read "James Dotchin", is written over a blue horizontal line.

James (JD) Dotchin
Chief Environmental Programs
Bureau of Industrial Site Clean-up
Nevada Division of Environmental Protection
2030 E Flamingo Rd, Suite 230, Las Vegas, NV 89119
702.486.2850 x 235

Enclosures

24 de abril 2017

Re: Información para la comunidad – Investigación de la descontaminación (RI) del Sitio del Nevada Environmental Response Trust (NERT)

Estimado residente:

Usted está recibiendo esta correspondencia porque vive en las cercanías de un área que está siendo investigada por la División de Nevada de Protección Ambiental (NDEP por sus siglas en inglés) para evaluar los impactos posibles de perclorato y otros contaminantes a la subsuperficie y el Las Vegas Wash en relación al sitio del Nevada Environmental Response Trust (NERT) conocido anteriormente como el sitio Tronox y el sitio Kerr-McGee. Las áreas siendo investigadas están ubicadas en el sitio NERT y también en el Las Vegas Wash dentro de la ciudad de Henderson y zonas no incorporadas del Condado de Clark. La hoja de datos adjunta incluye información sobre los antecedentes del sitio NERT y sobre las investigaciones de descontaminación (RI por sus siglas en inglés) continuas.

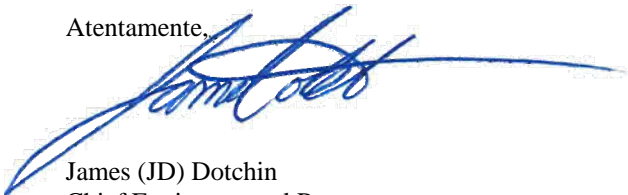
En conexión con la continua RI, la NDEP le invita a asistir una de las reuniones de entrevista e información para la comunidad programadas para 21 de junio 2017. Para acomodar de la mejor manera los horarios de los residentes de la comunidad, la primera reunión empezará a las 4:30 de la tarde, y la segunda reunión iniciará a las 7:30 de la tarde en el Centro de Convenciones Henderson, 200 S. Water Street, Henderson, Nevada 89015.

En estas reuniones tendremos una presentación breve sobre los antecedentes e historia del sitio NERT, así como también, la esfera de acción de la RI y su estado actual. Por último, nos gustaría recibir aportes de ustedes, acerca de cualquier preocupación que pueda tener con respecto a las actividades actuales, y además cómo y dónde le gustaría recibir actualizaciones e información futura sobre las investigaciones continuas. Después de la presentación, habrá un foro abierto para aportes adicionales de la comunidad.

Si no puede atender ningunas de las reuniones informativas por favor considere llenar el cuestionario adjunto y enviarlo por el correo en el sobre adjunto, ya que agradeceríamos mucho su aporte valioso mientras continuamos con el proceso de limpieza.

Si tiene preguntas con respecto a las investigaciones de descontaminación por favor contácteme al (702) 486-2850 x 235 o jdotchin@ndep.nv.gov. En concordancia con el plan de participación comunitario del sitio, información relacionada al sitio puede ser vista durante horas laborales en las oficinas de la NDEP de Las Vegas, 2030 E. Flamingo Rd. habitación 230, Las Vegas NV 89119. La revisión de archivos generalmente requiere una notificación de un día laboral. Por favor contacte a Christa Smaling al 702-486-2850 x 254 o csmaling@ndep.nv.gov para programar la revisión de un archivo. Documentos relacionados al sitio NERT también pueden ser vistos en línea en <http://www.NERT-Trust.com> y <http://ndep.nv.gov/bmi/tronox.htm>. Hay computadoras gratis disponibles para el uso del público en todas las bibliotecas de Henderson, incluyendo la biblioteca James I. Gibson en la 100 W. Lake Mead Parkway, la biblioteca de Paseo Verde en la 280 S. Green Valley Parkway, la biblioteca Green Valley Library en la 2797 N. Green Valley Parkway, y la biblioteca del Heritage Park Senior Center en la 300 S. Racetrack Road.

Atentamente,



James (JD) Dotchin
Chief Environmental Programs
Bureau of Industrial Site Clean-up
Nevada Division of Environmental Protection
2030 E Flamingo Rd, Suite 230, Las Vegas, NV 89119
702.486.2850 x 235

Adjuntos



Nevada Department of Conservation and Natural Resources,
Division of Environmental Protection (NDEP) and the
Nevada Environmental Response Trust (NERT) announce:

Community Information & Interview Meeting:

A Discussion of the Nevada Environmental Response Trust (NERT) Site
(formerly known as the Tronox Site and Kerr-McGee Site)

Date of Meeting: Wednesday, June 21, 2017
Times: 4:30 pm and 7:30 pm
Meeting Location: Henderson Convention Center
200 South Water Street
Henderson, Nevada 89015

Below is an agenda for both of the scheduled meetings regarding the Nevada Environmental Response Trust (NERT) Site (located at 510 S. Fourth Street, Henderson, Nevada):

Presentation: Site background and history, as well as current and future soil and groundwater response activities

Public Comment and Discussion: Community concerns, information needs, and desired involvement in the clean-up process

Open Forum: At the close of the presentation and discussion, there will be an open forum for additional community input

Documents related to the NERT Site may be viewed by appointment during normal business hours at the Nevada Division of Environmental Protection's Las Vegas office at 2030 East Flamingo Road, Suite 230, Las Vegas, Nevada 89119. In addition, significant milestone documents may be viewed online at www.NERT-Trust.com and <http://ndep.nv.gov/bmi/tronox.htm>.

For further information, contact:
James (JD) Dotchin
NDEP Las Vegas Office
(702) 486-2850 x 235
jdotchin@ndep.nv.gov

To schedule a file review, contact:
Christa Smaling
NDEP Las Vegas Office
(702) 486-2850 x 254
csmaling@ndep.nv.gov

Members of the news media or for press inquiries, please contact the Nevada Division of Environmental Protection's Public Information Officer, JoAnn Kittrell at 775-684-2712.



NEVADA DIVISION OF
**ENVIRONMENTAL
PROTECTION**

El Departamento de Conservación y Recursos Naturales de Nevada,
la División de Nevada de Protección Ambiental (NDEP) y el
Nevada Environmental Response Trust (NERT) anuncian:

Entrevista y reunión informativa para la comunidad:

Una discusión del Nevada Environmental Response Trust (NERT) (anteriormente conocido como el sitio Tronox y el sitio Kerr-McGee)

Fecha de reunión: 21 de junio 2017
Horas: 4:30 de la tarde and 7:30 de la tarde
Lugar de reunión: Henderson Convention Center
200 South Water Street
Henderson, Nevada 89015

A continuación, encontrará una agenda para las reuniones programadas con respecto al sitio NERT (ubicado en la 510 S. Fourth Street, Henderson, Nevada):

Presentación: Antecedentes e historia del sitio, además de las actividades actuales y a futuro en relación a la tierra y las aguas subterráneas.

Comentario público y discusión: Preocupaciones de la comunidad, necesidades informativas, y la participación deseada en el proceso de limpieza.

Foro abierto: Al cierre de la presentación y la discusión habrá un foro abierto para aportes adicionales de la comunidad.

Los documentos relacionados con el sitio NERT pueden ser vistos, por cita, durante horas laborales, en la oficina de Las Vegas de la División de Nevada de Protección Ambiental ubicada en la 2030 East Flamingo Road, oficina 230, Las Vegas, Nevada 89119. Documentos de significancia histórica pueden ser vistos en línea en www.NERT-Trust.com y en <http://ndep.nv.gov/bmi/tronox.htm>.

Para información adicional,
contacte a:

James (JD) Dotchin
NDEP Las Vegas Office
(702) 486-2850 x 235
jdotchin@ndep.nv.gov

Para programar una revisión de un archivo,
contacte a:

Christa Smaling
NDEP Las Vegas Office
(702) 486-2850 x 254
csmaling@ndep.nv.gov

Miembros de la prensa, o para preguntas de la prensa, por favor contacte a la oficial de información de la División de Nevada de Protección Ambiental, JoAnn Kittrell al 775-684-2712.

Fact Sheet

Nevada Environmental Response Trust Site

HENDERSON, NEVADA

April 2017

Update on the NERT Remedial Investigation

Background Information

The Nevada Environmental Response Trust (NERT) site, which was previously known as the Tronox LLC (Tronox) site and the Kerr-McGee Chemical LLC (Kerr-McGee) site, is located within the Black Mountain Industrial (BMI) Complex in unincorporated Clark County and surrounded by the City of Henderson, Nevada.

Soil and shallow groundwater in the vicinity and downgradient of the NERT site is contaminated with perchlorate and hexavalent chromium as a result of industrial operations dating back to 1941. Investigations of chromium-impacted groundwater began in late 1983. Treatment of hexavalent chromium in the groundwater began in mid-1987 and is on-going today. In 1997, perchlorate was discovered in the vicinity of the Las Vegas Wash. Removal and treatment of perchlorate using a groundwater extraction and treatment system (GWETS) has occurred continuously since 2002.

Currently, under the oversight of the Nevada Division of Environmental Protection (NDEP) and the United States Environmental Protection Agency (U.S. EPA), impacted groundwater is pumped from three well fields; one located on-site and two located off-site and downgradient (north-northeast) between the site and Las Vegas Wash. These well fields pump the impacted groundwater out of the ground and convey it to the treatment systems through pipelines. Treatment of chromium occurs on-site at the Groundwater Treatment Plant (GWTP) which chemically reduces hexavalent chromium and removes total chromium through chemical precipitation. Treatment of perchlorate occurs biologically in the on-site fluidized bed reactors (FBRs) treatment plant



and in an off-site ion exchange (IX) unit. The combined treated groundwater is discharged to Las Vegas Wash under a National Pollutant Discharge Elimination System (NPDES) permit. Remedial performance reports are submitted to the NDEP and U.S. EPA semi-annually.

Details about the site history, prior site investigations, remediation, current activities, and prior fact sheets can be found at <http://www.NERT-Trust.com>.

Current Activities

In accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and pursuant to the Interim Consent Agreement between NERT and NDEP (effective February 14, 2011), NERT initiated a Remedial Investigation (RI) in 2014. The current NERT RI Study Area is shown on the figure above. The

objectives of the RI are to characterize the NERT RI Study Area and the nature and extent of environmental impacts, and assess potential risks to human health and the environment. The RI will support the upcoming Feasibility Study (FS). The objectives of the FS are to develop and evaluate clean-up options and technologies to address soil and groundwater contamination originating from the NERT site and recommend a final remedy to NDEP and U.S. EPA for review and to NDEP for approval.

From late 2014 through 2016, extensive sampling of soil and groundwater, including installation of additional monitoring wells, was conducted on the NERT site, as well as in some off-site down-gradient areas between the site and Las Vegas Wash. Perchlorate and other contaminants found in groundwater in these areas were primarily transported from the NERT site through a series of unlined ditches which conveyed process wastewaters from the former operations at the NERT site and surrounding industrial facilities and discharged to a series of unlined waste disposal ponds located north and northeast of the NERT site.

Remedial investigations to evaluate potential NERT site-related impacts to the subsurface are continuing in 2017 throughout the NERT RI Study Area. Additional investigations will be conducted throughout 2017, with an increased focus on locations outside the NERT-site boundaries. The investigations will include drilling, well installation, and sampling of soil, groundwater and surface water. Below are pictures of the type of drill rig you might see in your neighborhood and what a

typical monitoring well looks like from the surface. This effort will be conducted with minimal disturbance to the residences in the area.

Community information and interview meetings will be held on June 21, 2017 to provide information about the NERT site and the RI to community members and to solicit input from the community regarding concerns they may have and how and when the community would like to receive future information and updates about ongoing investigations. A fact sheet providing an update of the remedial investigation activities will be distributed in 2018. Information collected from investigation activities in the NERT RI Study Area will be incorporated into a comprehensive RI report.

Where can I find more information?

A summary of important information and milestone documents can be found at <http://www.NERT-Trust.com> and <http://ndep.nv.gov/bmi/tronox.htm>.

If you have additional questions, please contact the Community Involvement Coordinator at NDEP:

James (JD) Dotchin
Chief, Environmental Programs
NDEP
2030 E. Flamingo Road, Suite 230
Las Vegas, NV 89119
(702) 486-2850 x235
jdotchin@ndep.nv.gov



Typical Drill Rig to Be Used



Typical Monitoring Well Surface Completion

Hoja de datos

El sitio del Nevada Environmental Response Trust

HENDERSON, NEVADA

Abril 2017

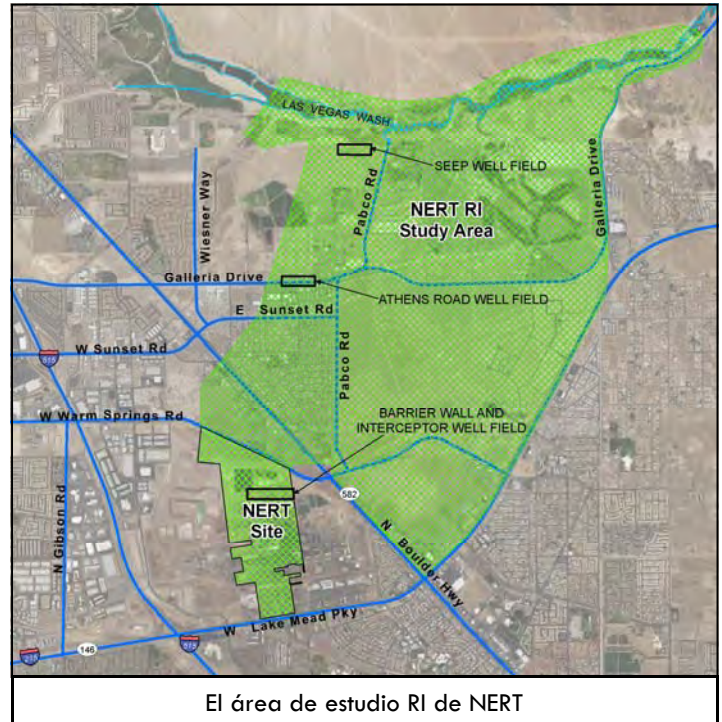
Actualización sobre la Investigación de Descontaminación NERT

Antecedentes Informativos

El sitio del Nevada Environmental Response Trust (NERT), conocido anteriormente como el sitio Tronox LLC (Tronox) y el sitio Kerr-McGee Chemical LLC (Kerr-McGee), está ubicado dentro del complejo Black Mountain Industrial (BMI) en el no incorporado Condado de Clark y está rodeado por la Ciudad de Henderson, Nevada.

La tierra y las aguas subterráneas superficiales en las inmediaciones y situadas aguas abajo del sitio NERT están contaminadas con perclorato y cromo hexavalente como resultado de operaciones industriales desde 1941. Investigaciones sobre el impacto del cromo en las aguas subterráneas empezaron a finales de 1983. El tratamiento del cromo hexavalente en las aguas subterráneas empezó a mediados de 1987 y continúa hasta hoy. En 1997, se descubrió perclorato en las proximidades del Las Vegas Wash. Un sistema de extracción y tratamiento de aguas subterráneas ha continuamente removido y tratado perclorato desde 2002.

Actualmente, bajo la supervisión de la División de Protección Ambiental de Nevada (NDEP) y la Agencia de Protección del Medio Ambiente (U.S. EPA), las aguas subterráneas impactadas son bombeadas desde tres campos de pozo, uno ubicado en el sitio y dos más ubicados fuera del sitio, situados agua abajo (norte-noreste) entre el sitio y el Las Vegas Wash. Estos campos de pozo bombean el agua subterránea fuera de la tierra y la transportan al sistema de tratamiento a través de tuberías. El tratamiento del cromo ocurre en el sitio en la planta de tratamiento de aguas subterráneas (GWTP) que reduce químicamente el cromo hexavalente y remueve el total de cromo a través de precipitación química. El tratamiento del perclorato ocurre biológicamente en el sitio en la planta de tratamiento de reactores fluidizados (FBRs) y fuera del sitio en una unidad de intercambio de iones (XI). Las aguas subterráneas combinadas, que han



sido tratadas, son descargadas al Las Vegas Wash bajo un permiso del National Pollutant Discharge Elimination System (NPDES). Los reportes del rendimiento de las acciones de descontaminación son entregados semestralmente a la NDEP y a la U.S. EPA.

Detalles sobre la historia e investigaciones previas del sitio, acciones reparadoras, actividades actuales y hojas de datos previas pueden ser encontrados en <http://www.NERT-Trust.com>.

Actividades Actuales

Con conformidad a la Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) y conforme al acuerdo de consentimiento interino entre NERT y la NDEP (efectivo el 14 de febrero de 2011), NERT inició una investigación de descontaminación (RI) en 2014. El área actual de estudio (RI) de NERT se muestra en la figura arriba. Los objetivos de la RI son para caracterizar el área

de estudio RI de NERT, la naturaleza y el grado de los impactos medio ambientales, y evaluar riesgos potenciales para los humanos y el medio ambiente. La RI apoyará el próximo estudio de factibilidad (FS). Los objetivos del FS son desarrollar y evaluar las opciones de limpieza y tecnologías para dirigir contaminación del suelo y las aguas subterráneas originadas por el sitio NERT y para recomendar un remedio final a la NDEP y a la U.S. EPA para su revisión y a la NDEP por su aprobación.

Desde finales del 2014 hasta 2016, el sitio NERT condujo un extensivo muestreo de tierra y aguas subterráneas, incluyendo la instalación de pozos de monitoreo adicionales, así como también en áreas situadas agua abajo fuera del sitio, ubicadas entre el sitio y el Las Vegas Wash. Perclorato y otros contaminantes encontrados en las aguas subterráneas fueron principalmente transportadas desde el sitio NERT a través de una serie de zanjas no recubiertas que transportaron aguas residuales procesadas por anteriores operaciones en el sitio NERT y las instalaciones industriales en los alrededores y fueron descargadas a una serie de estanques no recubiertas para disposición de residuos localizadas en el norte y noreste del sitio NERT.

Investigaciones de descontaminación para evaluar impactos potenciales del sitio NERT a la subsuperficie continuarán en 2017, a través del área de estudio RI. Investigaciones adicionales serán conducidas a lo largo de 2017 con énfasis en terrenos fuera del sitio NERT y sus límites. Las investigaciones incluirán perforaciones instalaciones de pozos y muestreos de tierra y aguas subterráneas y superficiales. A continuación, encontrará imágenes del tipo de torres de perforación que podría ver en su barrio y como se ve un pozo de monitoreo típico visto desde

la superficie. Este esfuerzo será conducido con un disturbio mínimo para los residentes del área.

Reuniones de información para la comunidad se realizarán 21 de junio 2017 para proveer información sobre el sitio NERT y el área de estudio RI para los miembros de la comunidad y para solicitar aportes de la comunidad con respecto a las preocupaciones que tienen y cómo y cuándo puedan recibir futura información y actualizaciones sobre las investigaciones continuas. Una hoja de datos con las actividades de la investigación de descontaminación se distribuirá en 2018. La información recolectada de las actividades investigativas del área de estudio RI será incorporada en un reporte comprehensivo de RI.

¿Dónde puedo encontrar más información?

Un resumen de información importante y otros documentos significativos puede ser encontrado en <http://www.NERT-Trust.com> y <http://ndep.nv.gov/bmi/tronox.htm>.

Si tiene preguntas adicionales, por favor contacte al coordinador de involucramiento de la comunidad de NDEP:

James (JD) Dotchin
Chief, Environmental Programs
NDEP
2030 E. Flamingo Road, Suite 230
Las Vegas, NV 89119
(702) 486-2850 x235
jdotchin@ndep.nv.gov



La plataforma de perforación típica, la cual será utilizada



Una boca de pozo monitoreo típico

Interview Questionnaire

Nevada Environmental Response Trust (NERT) Site Henderson, Nevada

1. Would you like to receive additional information regarding the NERT Site and the Remedial Investigation (RI) Study Area described in the Fact Sheet? If so, how would you prefer to receive such information?

2. What information regarding the NERT Site or the RI Study Area would you most like to know?

3. In your opinion, what information is most important and/or relevant to the community with regard to the NERT Site and/or the RI Study Area?

4. You are free to respond anonymously, however, if you would like to be contacted directly, please provide your name, address, phone number and e-mail address, if applicable.

Cuestionario
Sitio del Nevada Environmental Response Trust
(NERT)
Henderson, Nevada

1. ¿Desearía recibir información adicional acerca del sitio NERT y el área de estudio de la investigación de descontaminación (RI) descrita en la hoja de datos? Si es así, ¿cómo le gustaría recibir esta información?

2. ¿Cuál información con respecto al sitio NERT o el área de estudio RI le interesaría más?

3. En su opinión, ¿cuál información es la más importante y/o relevante para la comunidad con respecto al sitio NERT y/o el área de estudio RI?

4. Tiene la libertad de responder anónimamente; sin embargo, si le gustaría ser contactado de manera directa, por favor proporcione su nombre, dirección, número de teléfono, y correo electrónico, si tiene.

Community Involvement Plan, Revision 4
Nevada Environmental Response Trust Site
Henderson, Nevada

**ATTACHMENT E-9
JUNE 21, 2017 COMMUNITY INTERVIEW MEETING PRESENTATION AND
SIGN-IN SHEETS**

NEVADA ENVIRONMENTAL RESPONSE TRUST

COMMUNITY INTERVIEW MEETING

JUNE 21, 2017

NEVADA ENVIRONMENTAL RESPONSE TRUST

Who Is The Trust?

The Nevada Environmental Response Trust (NERT) was created by the Bankruptcy Court on February 14, 2011 as part of the settlement agreement entered in Tronox Inc.'s Chapter 11 Bankruptcy. The exclusive purposes and functions of NERT are:

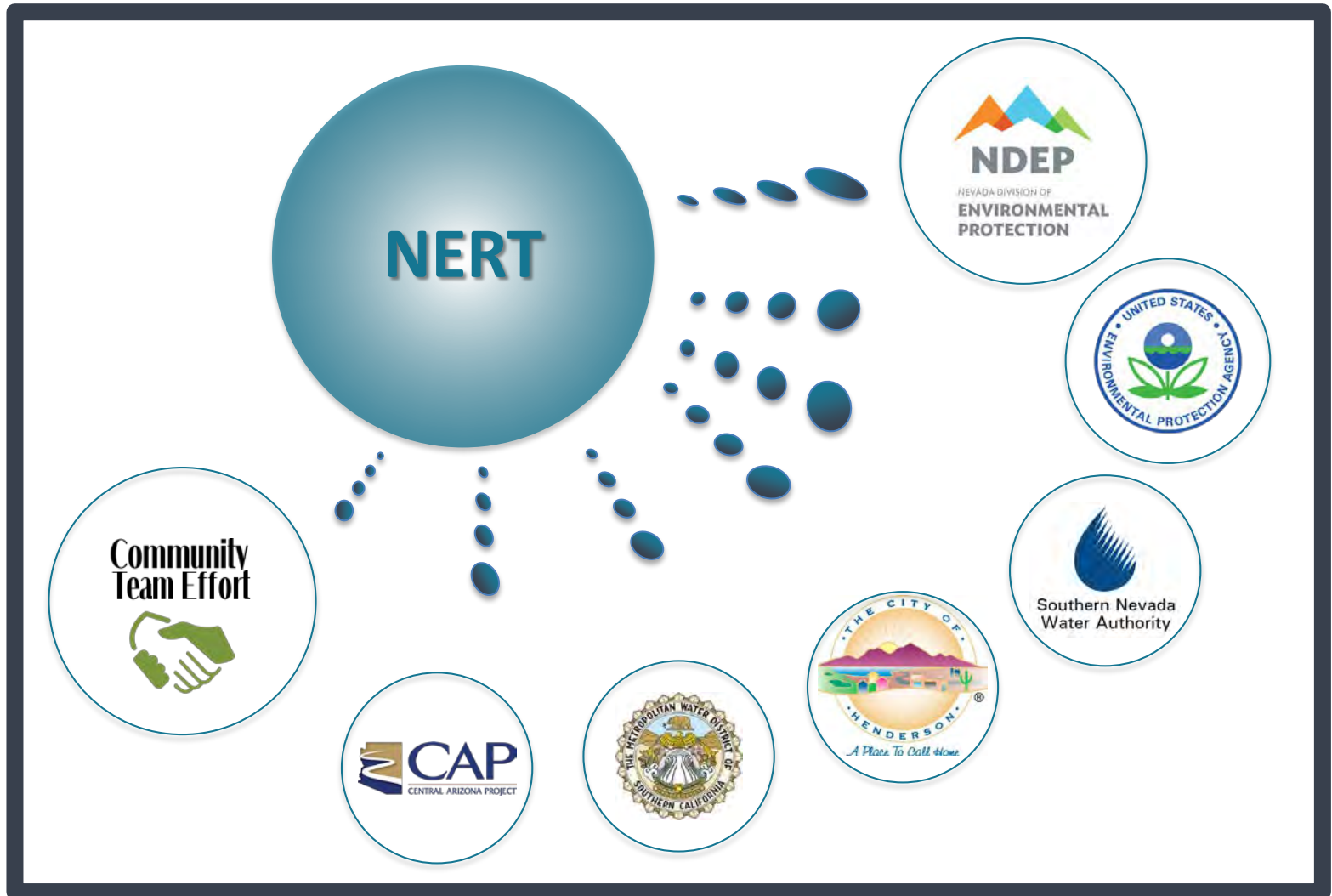
- To own the former Kerr-McGee/Tronox property in Henderson (“NERT Site”)
- Fund the remediation of environmental impacts related to historic operations at the NERT Site

Who Is The Trust?

NERT does not operate any business and all decisions are made to achieve a successful cleanup

NEVADA ENVIRONMENTAL RESPONSE TRUST

Who Is The Trust?



NEVADA ENVIRONMENTAL RESPONSE TRUST

Why Are We Here?

- Receive your input regarding current activities and how you would like to receive future information and updates
- Provide key information to the community regarding the site
- Answer your questions



Meeting Agenda

- Introduction from NDEP
- Remedial Investigation Update
- Present Frequently Asked Questions from the Community
- Take Community Questions and Comments
- Breakout Sessions



NEVADA DIVISION OF

**ENVIRONMENTAL
PROTECTION**



NEVADA DIVISION OF
**ENVIRONMENTAL
PROTECTION**

The drinking water for Henderson and the Las Vegas Valley comes primarily from Lake Mead and meets **ALL** drinking water standards



There are **NO** imminent threats to
human health



NEVADA DIVISION OF
**ENVIRONMENTAL
PROTECTION**

The purpose of today's meeting is to receive your input about concerns regarding NERT's current activities and how you would like to receive future information and updates

If you received a Fact Sheet in the mail, that does not mean your property is within the NERT Remedial Investigation Study Area

NDEP and US EPA review and approve all NERT remedial efforts



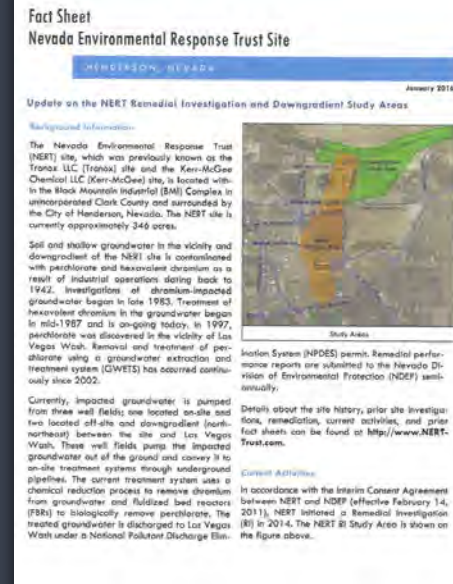


NEVADA DIVISION OF
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PROTECTION**

There have been two prior Community Interview Meetings to solicit input:

- April 23, 2012
- September 2, 2015

Annually updated NERT fact sheets have been mailed out to the community and posted on the NDEP and NERT websites. The FAQ sheet will be updated and mailed out after this meeting.



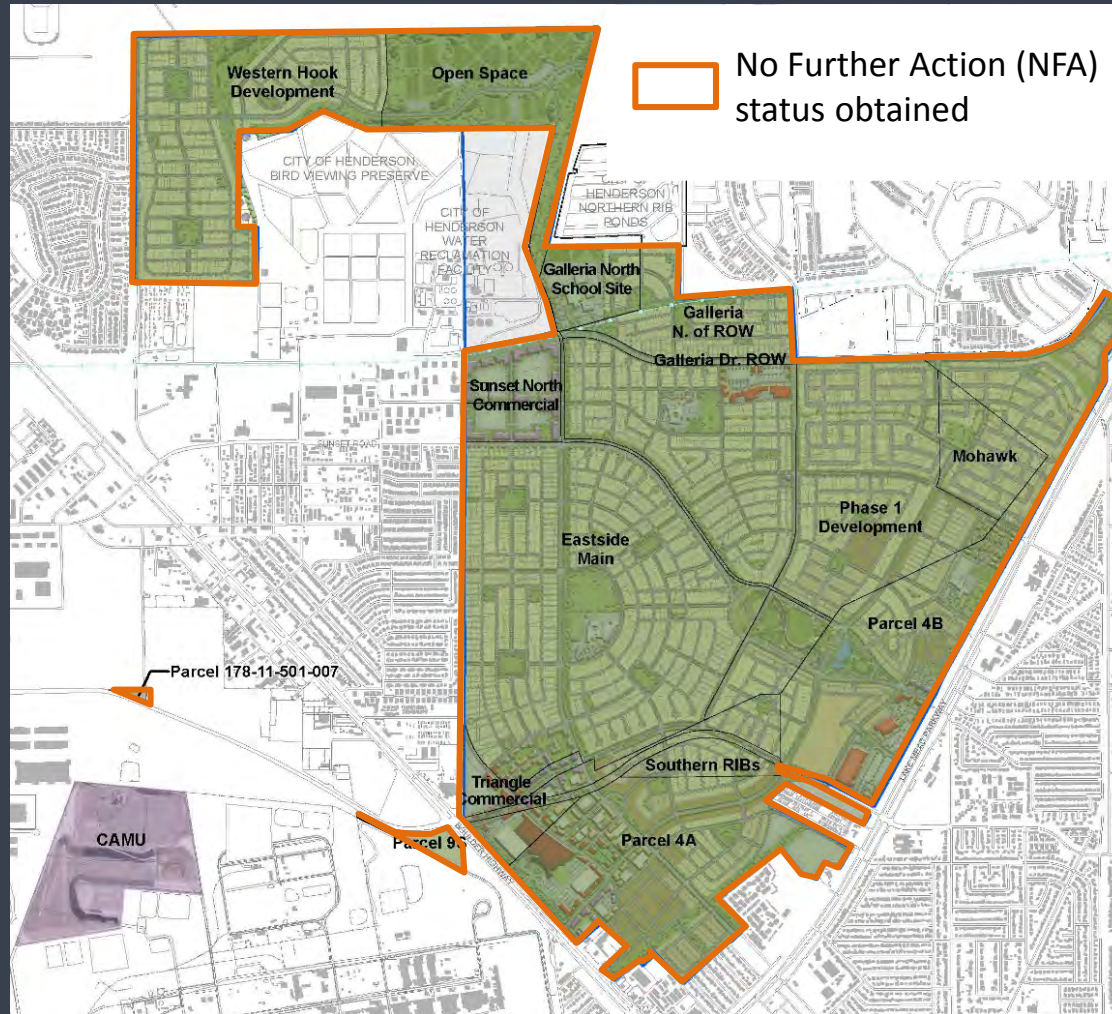


BRC (Cadence) Remedial Activities (2008-2015)

- Removal of impacted soils approved by NDEP
- Health-risk assessments approved by NDEP
- No Further Action Determinations (NFAD) were issued by NDEP
- Groundwater investigated and does not pose unacceptable risks to residents



NEVADA DIVISION OF
**ENVIRONMENTAL
PROTECTION**





NDEP will be available to answer questions during the breakout session

Contact Information

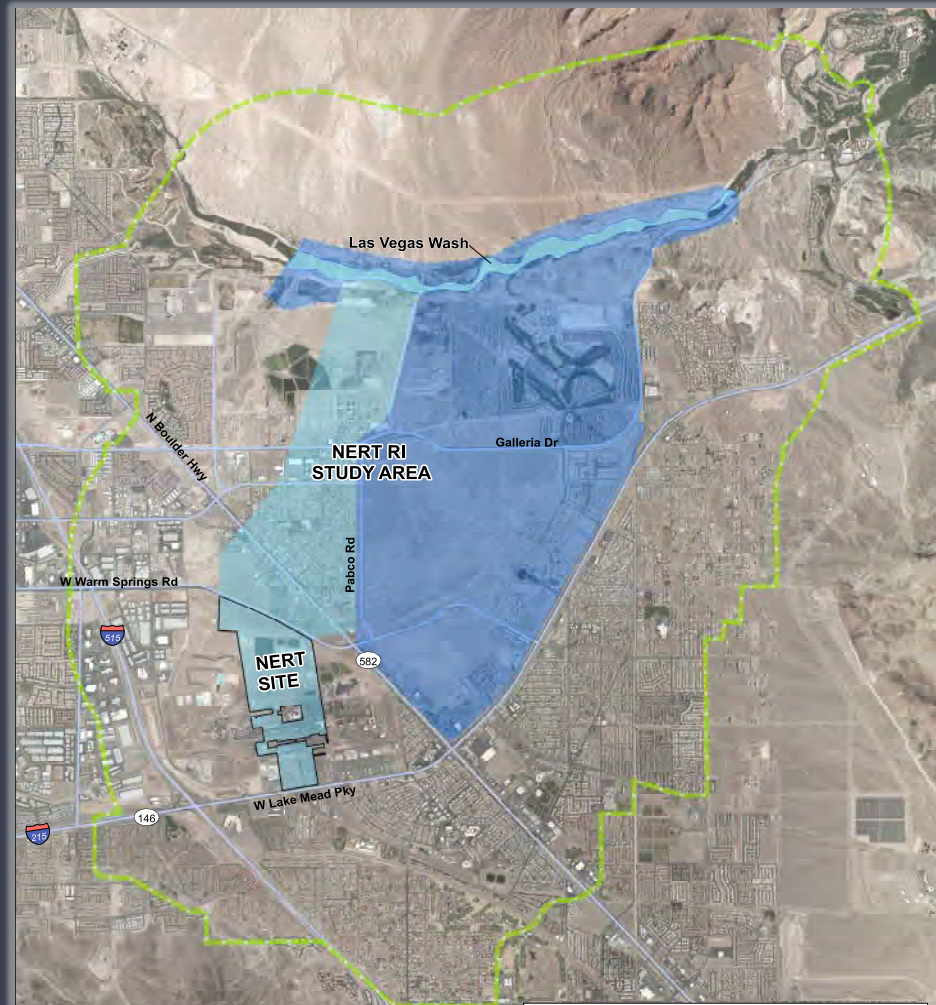
- James Dotchin
NDEP Chief, Bureau of Industrial Site Cleanup
(702) 486-2850 x235
jdotchin@ndep.nv.gov

NEVADA ENVIRONMENTAL RESPONSE TRUST

REMEDIAL INVESTIGATION UPDATE

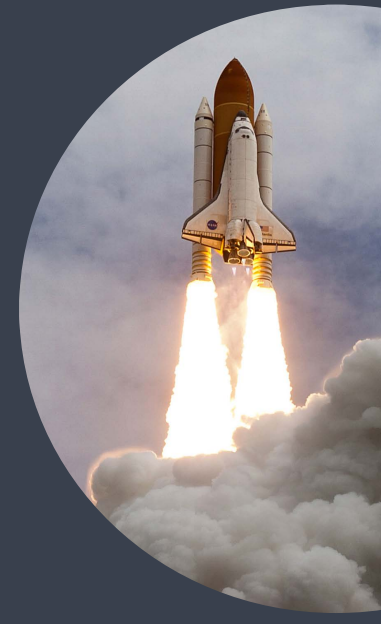
NEVADA ENVIRONMENTAL RESPONSE TRUST

Site Location



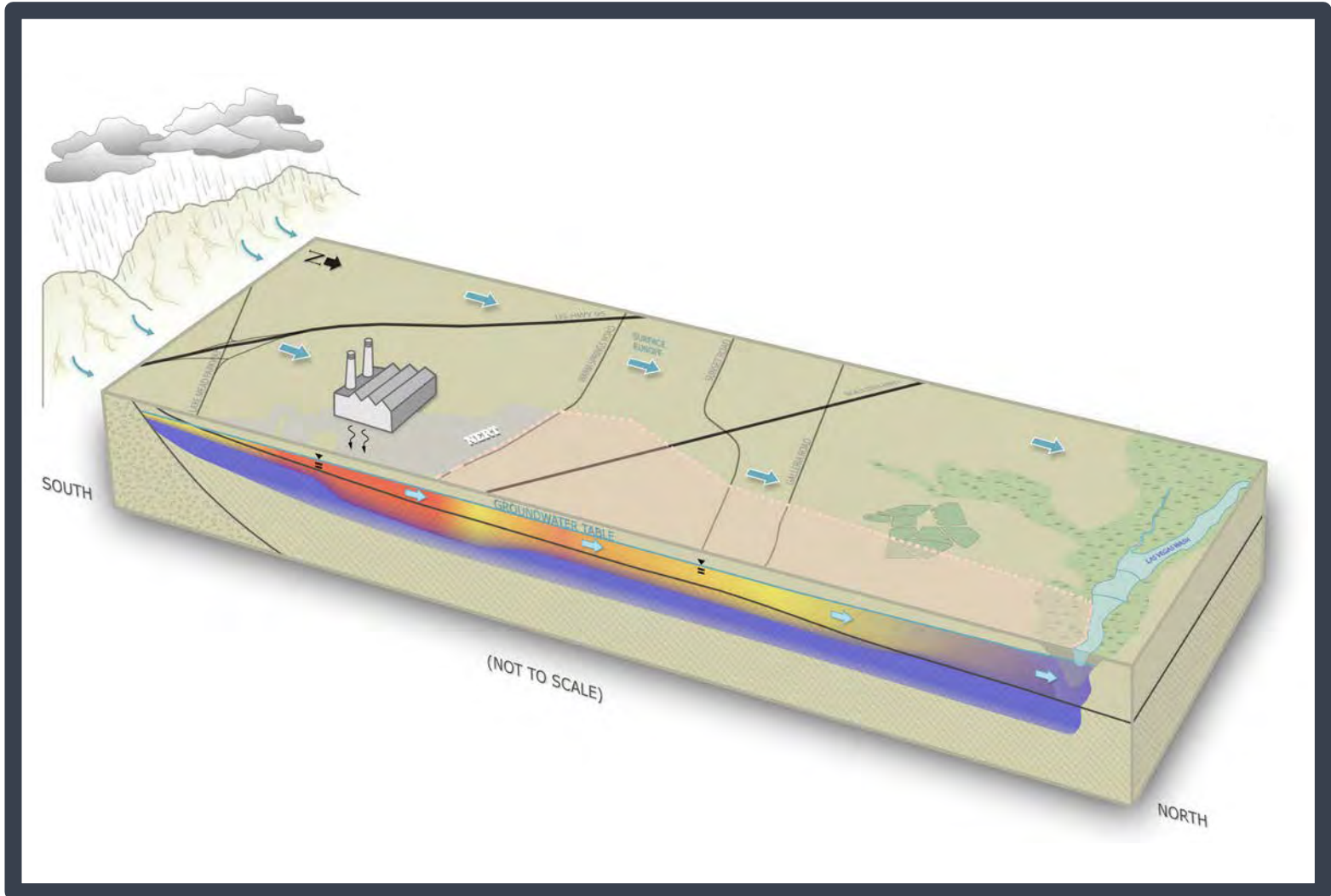
Site History

- From 1945 - 1998, the site manufactured perchlorate which was the primary source of perchlorate and hexavalent chromium impact
- Perchlorate is a white crystalline salt used as a propellant in rockets and fireworks
- Releases at the site during manufacturing have migrated from the site to the groundwater and the Las Vegas Wash



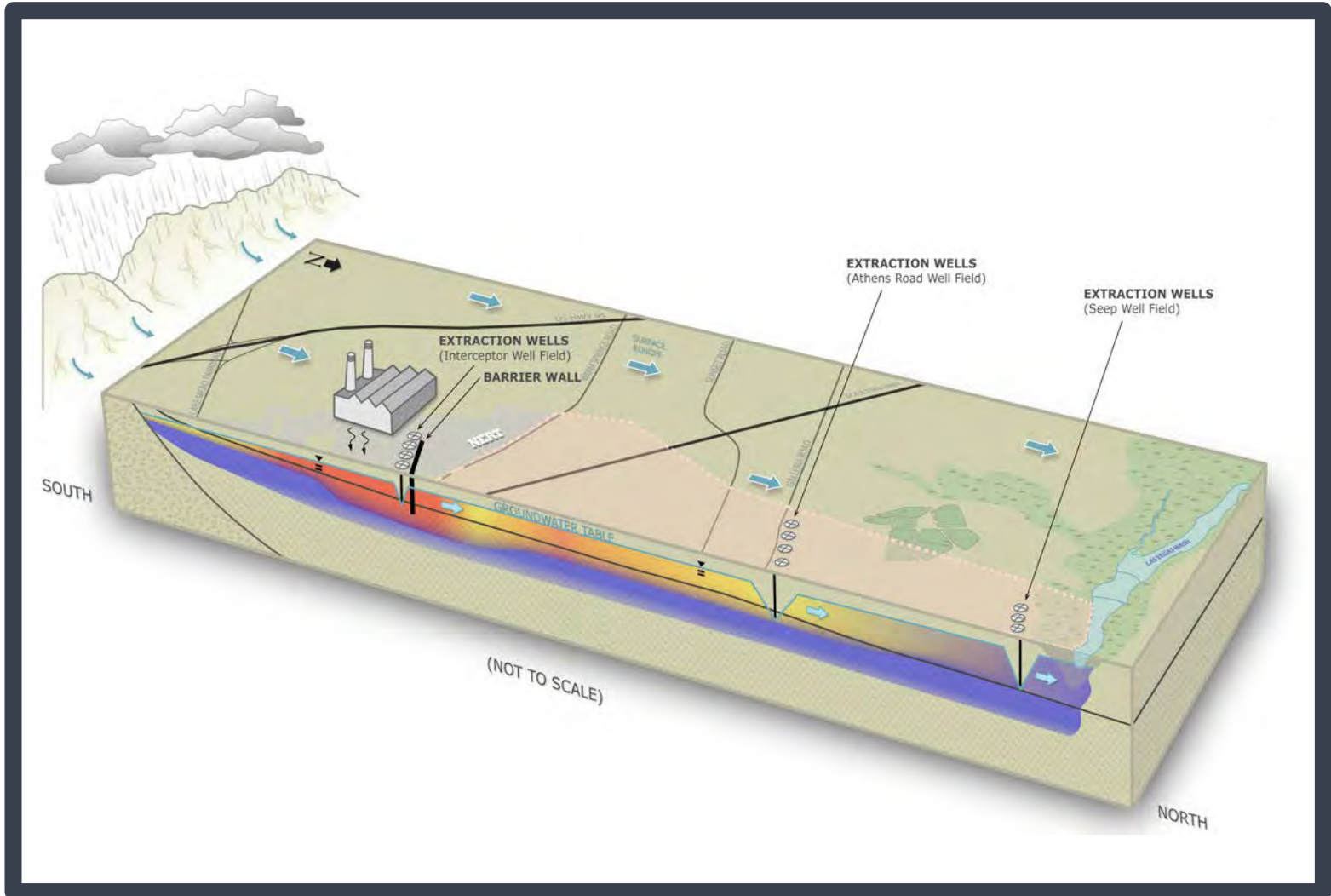
NEVADA ENVIRONMENTAL RESPONSE TRUST

Migration Diagram



NEVADA ENVIRONMENTAL RESPONSE TRUST

Migration Diagram



Removal Actions

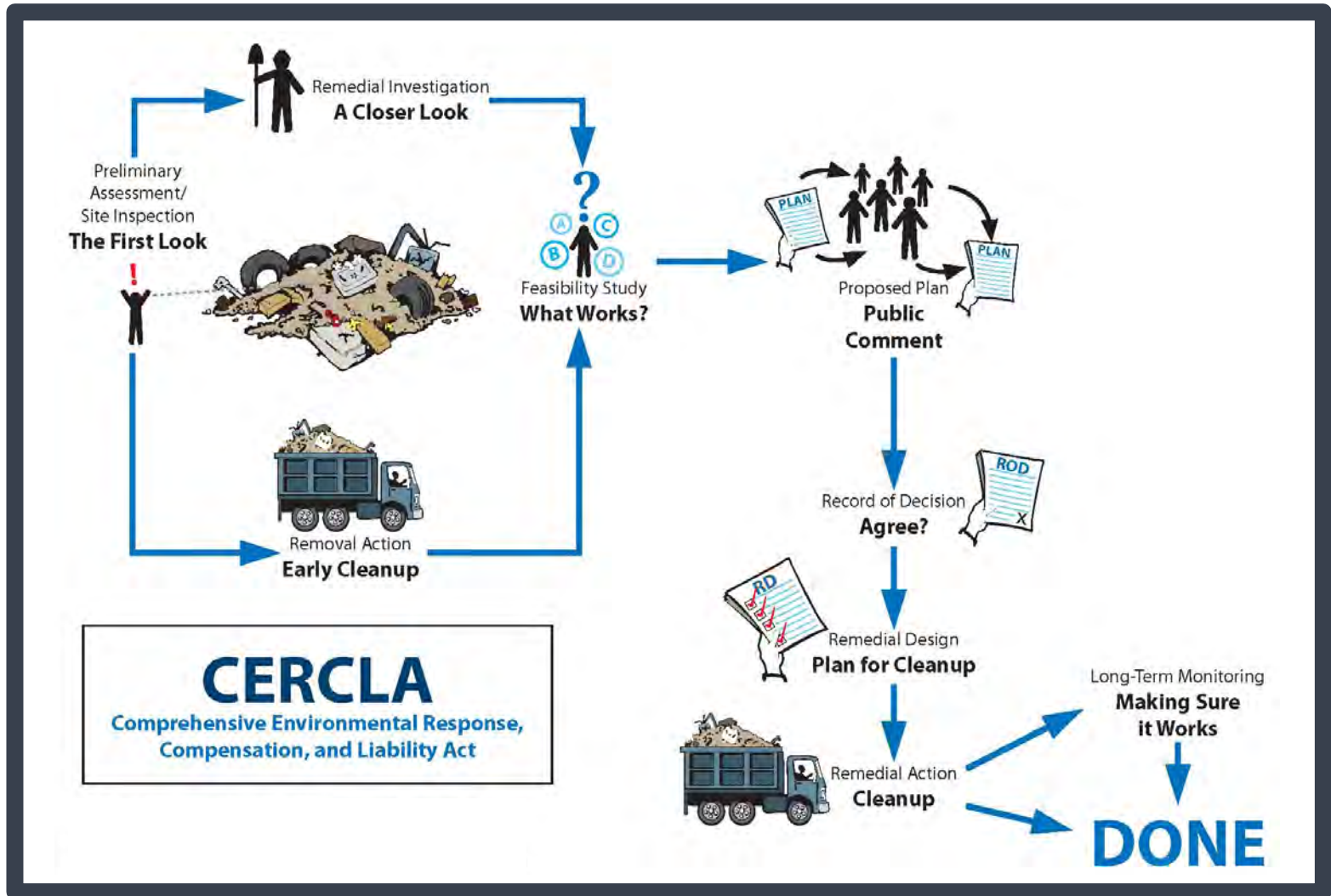
- Removal of 1,000,000 tons of impacted soil from the NERT Site
- Removal of 9,600,000 pounds of perchlorate from the groundwater - resulting in a 95% reduction of perchlorate levels in Lake Mead
- Removal of 45,000 pounds of hexavalent chromium from the groundwater

Remedial Investigation

- Collection of 1,800 soil samples
- Installation of 75 groundwater monitoring wells
- Sampling of 300 groundwater monitoring wells

NEVADA ENVIRONMENTAL RESPONSE TRUST

The Process



Investigation Goals

The NERT Remedial Investigation is designed to fully investigate the contamination at the NERT Site, as well as the contamination migrating from the NERT Site.

This information will be used to:

- Address contamination at the NERT Site
- Develop a remedy to stop further contamination from leaving the NERT Site
- Address contamination that has previously migrated off-site

NEVADA ENVIRONMENTAL RESPONSE TRUST

COMMUNITY INPUT UPDATE

Community Input Is Important

Mail, e-mail, telephone, verbally or in writing tonight are ways to provide input on NERT's ongoing cleanup

- Of the 29,000 community interview questionnaires mailed in May 2017, over 200 responses were received
- NDEP has received more than 35 telephone inquiries
- To provide information to the community, a frequently asked questions (FAQ) sheet has been developed and will be updated following this meeting

Question 1

Is my drinking water safe to consume?

Question 2

Is there an imminent health risk to humans or animals in the NERT RI Study Area?

Question 3

Is it safe for humans and animals to play in their yard in the NERT RI Study Area?

Frequently Asked Questions

Question 4

Do developers have information to inform potential buyers?

Question 5

Can I grow and eat my own vegetables?

Question 6

Has there been or will there be a soil or groundwater study in the area of my home?

Question 7

Is there an air risk inside or outside of my home?

Question 8

Are there other investigations and/or contamination in Henderson?

Question 9

Will this contamination or these cleanup efforts affect my property values?

Question 10

What is the purpose of the NERT Remedial Investigation?

Question 11

What is the source of the contamination?

Question 12

Is perchlorate from the NERT Site getting into the Las Vegas Wash or Lake Mead?

Question 13

Is all of this information public knowledge?

Question 14

Who can I contact if I have questions or concerns?

Community Outreach

We are taking all of the information we receive in writing and verbally to improve our community outreach process. The NERT Team will continue to provide information to the community by:

- Fact sheet mailings
- Updating the NERT and NDEP websites and Administrative Record with project documentation
- Future community meetings
- Being available to answer questions via phone, e-mail and mail
- Providing information to the local city, county and state agencies

**THANK YOU FOR YOUR TIME AND PLEASE
VISIT OUR Q&A STATIONS**

**Nevada Division of Environmental Protection (NDEP) and the
Nevada Environmental Response Trust (NERT)
Community Information and Interview Meeting
June 21, 2017 at 4:30**

****Please sign up for our email distribution list using the iPads****

First Name	Last Name	Company/Organization (if applicable)	Mailing Address
John	Smith	City of Henderson	1234 Main Street Henderson, NV 89002
Desiree	Vincent		624 St Andrews Rd Henderson, NV 89015
Mark	Hobgircs	City of Henderson	RDA/COIT
Ed	Modiano	de maximis	1322 30th St, SD, CA 92106 Ste 104
Kate	Logan		229 Ash St Henderson, NV 89015
Emily	Lewis		
Hather	Vietuso		
Tony	Vincent		547 Hilltop Rd, Head. NV
Shannon	Jerez		573 Via di Parione

**Nevada Division of Environmental Protection (NDEP) and the
Nevada Environmental Response Trust (NERT)
Community Information and Interview Meeting
June 21, 2017 at 430**

****Please sign up for our email distribution list using the iPads****

First Name	Last Name	Company/Organization (if applicable)	Mailing Address
John	Smith	City of Henderson	1234 Main Street Henderson, NV 89002
GREG	SHUFF		1192 EVERGREEN COURT ST. HENDERSON NV 89011
William	SMITH		519 Possibilitier ST HEN, NV, 89011
RON	SATU		BRC, CONSULTANT
Jeff	Beardall		119 S. Major Ave And NV 89015
Christina	Carlson		951 Las Palmas Entrada #2221 Henderson NV 89012
Brenda	Pohmann	COIT	340 Water Street Henderson, NV 89015
Rosa	Heewich		396 E Long Acres, HEND, NV

**Nevada Division of Environmental Protection (NDEP) and the
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Community Information and Interview Meeting
June 21, 2017 at 4:30**

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First Name	Last Name	Company/Organization (if applicable)	Mailing Address
John	Smith	City of Henderson	1234 Main Street Henderson, NV 89002
Anthony	Radovitch		489 Wildflower Ave #113 493 Henderson, NV 89011
INDERJIT	GORE	CERRITOS	12603 193RD ST. CERRITOS, CA 90703
Jeff	Brower	Anderson Brower + ASSOC.	13252 Valley Creek Trail S. APT# 4120 89007
Steven	Decker		337 Waterwheel Falls Drive Henderson NV 89015
Joan	Telus		1117 Via Della Curia Henderson 89011
Barbara	Manning		677 Burton St Henderson, NV 89015
Kyra	Rodriguez		6746 Silent Vista Way Las Vegas, NV 89122
SHARON	KRIS	self	1056 Split Rail Henderson, NV 89011
Gail	Surgent		501 Wildflower Ave, HD NV 89011

**Nevada Division of Environmental Protection (NDEP) and the
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Community Information and Interview Meeting
June 21, 2017 at 4:30**

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First Name	Last Name	Company/Organization (if applicable)	Mailing Address
John	Smith	City of Henderson	1234 Main Street Henderson, NV 89002
SHARLENE	PANNY		
Michael	Manning		
Pessy	Ruech		
SOMIA	JOHNSON		
Fred	Keeney		
Lauren	Smith		
Richard	VELOZ		
Charler	Leone		
ALEXANDRA	FAZEKAS	CITY OF HENDERSON	

**Nevada Division of Environmental Protection (NDEP) and the
Nevada Environmental Response Trust (NERT)
Community Information and Interview Meeting
June 21, 2017 at 4:30**

****Please sign up for our email distribution list using the iPads****

First Name	Last Name	Company/Organization (if applicable)	Mailing Address
John	Smith	City of Henderson	1234 Main Street Henderson, NV 89002
Christine	Horvath		835 Purple Sage Tr. Henderson 89015
Leonard	HORVATH		" " " " "
Welles	Zhuo		459 Wembley Hills Pl Henderson, NV 89011
Dave	Vorce	City of Henderson	City of Henderson
JERRY	SANDERS	HENDERSON	598 FISHING ST HEND

**Nevada Division of Environmental Protection (NDEP) and the
Nevada Environmental Response Trust (NERT)
Community Information and Interview Meeting
June 21, 2017 at 4:30**

****Please sign up for our email distribution list using the iPads****

First Name	Last Name	Company/Organization (if applicable)	Mailing Address
John	Smith	City of Henderson	1234 Main Street Henderson, NV 89002
JOHN	CEBALLOS		1161 STRADA CRISTALLO HENDERSON NV 89011
Karen	Branson		246 Brook Hollow Ct Hend, 89074
Joan	Green		540 540 W. Horizon Ridge Pkwy Henderson, NV 89012
Christina	Villas		
GERRY FRANCINE	LEBRATO		306 DIVERTIMENTO ST. HENDERSON NV 89011
Lee	Farris	TLC	875 W. Warm Springs Henderson NV 89011
Gabriela	Rodriguez	Purdue Marion & Associates	
Kris	Everett	Logistical Solutions, LLC	2485 Marco Street, LV, NV 89115
Barbara	NORTON		89015

**Nevada Division of Environmental Protection (NDEP) and the
Nevada Environmental Response Trust (NERT)
Community Information and Interview Meeting
June 21, 2017 at 430**

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First Name	Last Name	Company/Organization (if applicable)	Mailing Address
John	Smith	City of Henderson	1234 Main Street Henderson, NV 89002
Diane & George	Blair		^{Henderson} 508 Willowflower Ave. 89044
Marlyn	Buckley		30 Avenida Yvori 89011
Caroline	Jenson		3155 Loma Vista 89120
JOANNE	BROWNE		421 Rocky Rd 89015
Joyce	SARGENT		700 Rose Apple St. 89011
Jonathan	Stone		790 Amy Hill St 89015
Debbie	Stone		790 Amy Hill St 89015
ZACHARY	Hus	SNWA	
David	Biddinger		624 St Andrews 89015

**Nevada Division of Environmental Protection (NDEP) and the
Nevada Environmental Response Trust (NERT)
Community Information and Interview Meeting
June 21, 2017 at 4:30**

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First Name	Last Name	Company/Organization (if applicable)	Mailing Address
John	Smith	City of Henderson	1234 Main Street Henderson, NV 89002
VADERZE	RICHARDSON		857 SUMMER RANCH RD HENDERSON, NV 89012
Justine	Dvorchak-Radguz	-	6746 Silent Vista Way Las Vegas, NV 89122
MONA Don	POTTS ANDRIJOWYCH		733 OAK-FIELD LN. HEND. NV. 89011
Todd	Tietjen	SNWA	
SANDY	Messuel	—	465 Potomac ⁸⁹⁰¹⁵ St Henderson NV
Rebecca	LORETE MOLA	—	466 POTOMAC ST. Henderson, NV. 89011
DENNIS BRAUER	BRAUER		652 Rose Apple St Henderson 89011
JOHNNIE BRAUER	BRAUER		652 Rose Apple St Henderson NV. 89011

**Nevada Division of Environmental Protection (NDEP) and the
Nevada Environmental Response Trust (NERT)
Community Information and Interview Meeting
June 21, 2017 at 7:30**

****Please sign up for our email distribution list using the iPads****

First Name	Last Name	Company/Organization (if applicable)	Mailing Address
John	Smith	City of Henderson	1234 Main Street Henderson, NV 89002
MARLENE	MASKE		845 Center ST.
Robert	Howard		344 Via De Pellegrini
ANA	ABITRIA		1100 VIA DELLA COSTAZZOLA
Tim	Sam		605 VIALE MACHIAVELLI LANG
Kimberly	Patton		452 Sellers Place
Jawa	Briones		1003 Palo Verde dr. Henderson NV 89015

**Nevada Division of Environmental Protection (NDEP) and the
Nevada Environmental Response Trust (NERT)
Community Information and Interview Meeting
June 21, 2017 at 7:30**

****Please sign up for our email distribution list using the iPads****

First Name	Last Name	Company/Organization (if applicable)	Mailing Address
John	Smith	City of Henderson	1234 Main Street Henderson, NV 89002
LEO	CCARR	HENDERSON	1092 VIA DECCA COSTRADA 89011
WILLIAM	PUGH	HENDERSON	1105 SHATY RUN TRL. 98011
Michael	Zarack	Henderson	969 via del Tramento St Henderson NV 89011
Jan	Mathis	Henderson	520 Arrowhead Trl. Henderson 89015
LALVATIS	SMITH	Henderson	452 Leighann Rd - Henderson.
Irene	Balan		855 Chameleon St Henderson 89014
ERIC JOHNSTON	E JOHNSTON	HENDERSON	682 SWIFT EAGLE AVE HENDERSON, NV 89015
Jayne	Huffield		11020 Chestnut St Henderson NV 89011

**Nevada Division of Environmental Protection (NDEP) and the
Nevada Environmental Response Trust (NERT)
Community Information and Interview Meeting
June 21, 2017 at 7:30**

****Please sign up for our email distribution list using the iPads****

First Name	Last Name	Company/Organization (if applicable)	Mailing Address
John	Smith	City of Henderson	1234 Main Street Henderson, NV 89002
DELANO	DE SILVA	HENDERSON, NV	1183 CALCONE DR 89011
DEBRA	DE SILVA	HENDERSON	1183 CALCONE DR 89011
Diane	Garza	Henderson	480 Rexford Dr. 89011
Gary	Rihani	Henderson	1057 Via Della Castrella Henderson 89011
CHARLENE	DAVIS	HENDERSON NV	590 SELLERS PL. HENDERSON, NV 89011
Kelly	Sayyah	1	951 Las palmas entrada ave Apt 1515 Henderson NV 89012
W & Bob	Knauff	Henderson	404 Via Stretto Ave 89011
Jarrod	Frook	Henderson	407 Giocoso Ct 89011
Susan	Whelan	Henderson	1113 Broken Hills Dr 89011

**Nevada Division of Environmental Protection (NDEP) and the
Nevada Environmental Response Trust (NERT)
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June 21, 2017 at 7:30**

****Please sign up for our email distribution list using the iPads****

First Name	Last Name	Company/Organization (if applicable)	Mailing Address
John	Smith	City of Henderson	1234 Main Street Henderson, NV 89002
Sandra	HARVEY	Las Vegas	6655 Boulder Hwy #1174
Genie	COLLINS	Las Vegas	6655 Boulder Hwy 1173
LEROY	HOOD	—	1500 CHESTNUT ST. HEND. NV 89011
Abel	PAEZ		
Jodi	Finch		330 E Kimberly Ave Henderson, NV 89015
Candi + Roger	Toth		429 Viewmont Dr. Henderson, NV 89015
Robert	Whelan		
JAMES	ZAKOSKY		390 MARSTON WAY HENDERSON, 89015

**Nevada Division of Environmental Protection (NDEP) and the
Nevada Environmental Response Trust (NERT)
Community Information and Interview Meeting
June 21, 2017 at 7:30**

****Please sign up for our email distribution list using the iPads****

First Name	Last Name	Company/Organization (if applicable)	Mailing Address
John	Smith	City of Henderson	1234 Main Street Henderson, NV 89002
Cathy	Alonso	Homeowner	416 Pueblo Place Henderson 89015
Debra	Lugue	Homeowner	P.O. Box 8555 LA Verne CA. 91750
JOE	MARTINEZ	" "	707 FRAZIER ST 89015
Lynell	STANTON	ART RENTER	23 E. TEXAS AVE 89015 AH 261
Jonathan	ZAMORA	Henderson	1090 Via Saint Lucia Pl
Melinda	Ritz	Henderson	444 Sellers Pl Hen 89011
Debbie	Balan	HD	919 PIGEON FORGE 89015
BRYAN	CHES	HP	1620 CHESTNUT ST Hen 89011

Community Involvement Plan, Revision 4
Nevada Environmental Response Trust Site
Henderson, Nevada

**ATTACHMENT E-10
NOVEMBER 2018 COMMUNITY INFORMATION
DOCUMENTS PROVIDED IN MAILING**



December 1, 2018

Dear Resident:

① Una versión en español de este documento también está disponible en el sitio web www.nert-trust.com o al contactar a James Dotchin (JD) por teléfono (702-486-2850 x 235) o por correo electrónico (jdotchin@ndep.nv.gov).

I am writing to you because you live near an area being investigated by the Nevada Division of Environmental Protection (NDEP). You are not at risk, but I want to inform you about our ongoing work and respond to concerns you may have. Clean-up of the environment is part of NDEP's mission to preserve and enhance the environment of the State in order to protect public health, sustain healthy ecosystems, and contribute to a vibrant economy.

We are investigating how pollutants from property formerly owned by Tronox and Kerr-McGee have affected the Las Vegas Wash and nearby soil and water. NERT — short for the Nevada Environmental Response Trust — now owns the former Tronox/Kerr-McGee property (NERT Site) and is in charge of the investigation.

The inspection covers three main areas:

- The NERT Site
- Unincorporated parts of Clark County
- Land in Henderson between the NERT Site and the Las Vegas Wash

See the back of this packet for a map of these areas.

The main chemical we are concerned about is perchlorate, which was made at the NERT Site before 1998. Perchlorate is used to produce rocket fuel, missiles, fireworks, flares, and explosives. Another chemical of concern is chromium, which was also used on the NERT Site.

I have attached a list of frequently asked questions (FAQ) with details about these chemicals and the history of the NERT Site. These questions were asked during prior community outreach surveys and meetings. I have also included a fact sheet that describes the NERT Site and our plan for cleaning it up.

Lastly, I want to personally thank you if you completed our questionnaire or attended one of our public meetings last year. My colleagues and I appreciate your input, questions, and concerns.

If you have any questions about our investigation or questions not answered in this packet, please contact me at (702) 486-2850 x 235 or jdotchin@ndep.nv.gov. For concerns related to your health, I encourage you to see your health care professional.

Sincerely,

James (JD) Dotchin
Chief Environmental Programs
Bureau of Industrial Site Cleanup
Nevada Division of Environmental Protection

Learn more about the site

View official files at our office:

NDEP Las Vegas Office
2030 E. Flamingo Rd. Suite 230
Las Vegas, NV 89119

Contact Christa Smaling at 702-486-2850 x 254 or csmaling@ndep.nv.gov to schedule a file review. Please tell us a day in advance if you want to review files at our office.

Read about our efforts online:

- www.NERT-Trust.com
- ndep.nv.gov/environmental-cleanup/site-cleanup-program/active-cleanup-sites/bmi-complex/nevada-environmental-response-trust-nerf

For info about other, unrelated cleanups within the Black Mountain Industrial complex:

- ndep.nv.gov/environmental-cleanup/site-cleanup-program/active-cleanup-sites/bmi-complex

Computers are available, free of charge, for public use at all Henderson libraries:

- James I. Gibson Library — 100 W. Lake Mead Parkway
- Paseo Verde Library — 280 S. Green Valley Parkway
- Green Valley Library — 2797 N. Green Valley Parkway
- Heritage Park Senior Center Library — 300 S. Racetrack Road

Fact Sheet

Nevada Environmental Response Trust Site

November 2018

HENDERSON, NEVADA

Una versión en español de este documento también está disponible en el sitio web www.NERT-Trust.com o al contactar a James Dotchin (JD) por teléfono (702-486-2850 x 235) o por correo electrónico (jdotchin@ndep.nv.gov).

Cleanup Process at the Nevada Environmental Response Trust (NERT) Site

The Nevada Division of Environmental Protection (NDEP) and the United States Environmental Protection Agency (EPA) manage all cleanup and investigation activities at the NERT Site. The NERT Site is part of the Black Mountain Industrial Complex in Henderson, Nevada. NERT was created in 2011 as part of Tronox Inc.'s bankruptcy. Today, NERT owns the Site and handles efforts to clean up contamination caused by operations before 2011.

Cleanup efforts at the NERT Site follow the environmental rules of the EPA. These requirements are part of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). It is designed to identify, investigate, and clean up sites to protect the public and the environment. The CERCLA cleanup process is shown in the figure on the right and is summarized below.

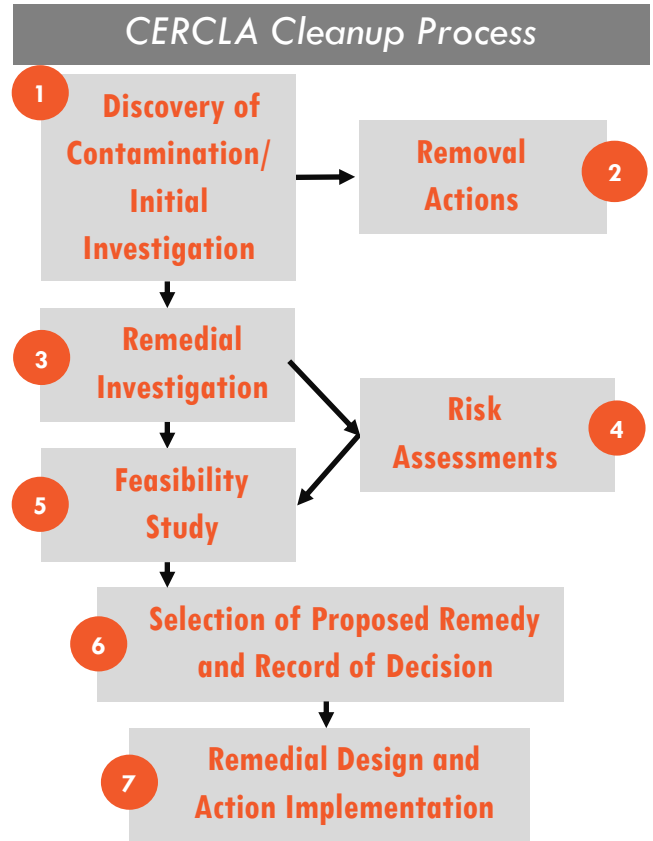
Overview — Historical operations at the NERT Site contaminated the soil and underlying groundwater with chemicals. Groundwater in Henderson is not a source of public drinking water (see the FAQ document in this packet). Perchlorate — the main contaminant — was historically manufactured at the site. Perchlorate is often used to produce rocket fuel, missiles, fireworks, flares, and explosives. Hexavalent chromium, which was also used on the site, is another contaminant of concern. Some of this contamination moved off-site, as far north as the Las Vegas Wash.

NERT is investigating contamination in an established study area — called the NERT Remedial Investigation Study Area. This study area includes the NERT Site and areas to the north and northeast of the site (See the map included in this packet). NERT has three main goals:

1. Keep contamination from leaving the NERT Site
2. Address contamination at the NERT Site
3. Address contamination that has previously moved off-site

1 Discovery of Contamination/Initial Investigation —

Historical operations at the NERT Site made a chemical called perchlorate. Perchlorate is often used in rocket fuel. These operations affected soil and groundwater beneath the property. Wastewater from the industrial operations moved northeast of the site through unlined ditches into unlined disposal ponds. Since then, the NERT Site and surrounding area have been part of many environmental investigations:



- **Late 1970s:** EPA, NDEP, and Clark County examined how Black Mountain Industrial operations might have affected the environment.
- **Early 1980s:** Officials discovered groundwater contaminated with hexavalent chromium.
- **1997:** Contamination from the NERT Site was first discovered near the Las Vegas Wash.

2 Removal Actions — Since the early 1980s, contamination on and around the site has been significantly reduced. Treatment of hexavalent chromium began in mid-1987, continues today and has eliminated over 23 tons of chromium from the environment. Treatment of perchlorate has occurred regularly since 1999, resulting in the removal from the environment of around 4,900 tons of perchlorate and significantly reduced the amount of contamination entering the Las Vegas Wash. During 2010 and 2011, officials removed around 568,000 cubic yards of contaminated soil from the NERT Site. Outside of the NERT Site, other responsible parties have removed large amounts of soil after extensive soil sampling.

These first removal actions are not the final remedy, but they did greatly reduce risks at and around the Site. As a result, there are no immediate health risks to the public or environment near the NERT Site. The same is true for the Cadence development, which NDEP cleared for safe development.

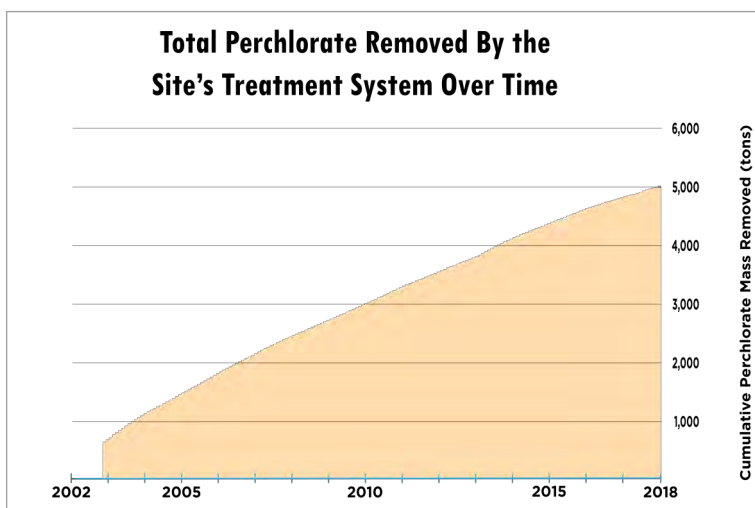
3 Remedial Investigation — In late 2014, NERT began a broad environmental study, called a Remedial Investigation. The investigation builds on earlier studies and will give NERT an understanding of the extent of the contamination. NERT has been drilling below the ground, installing groundwater wells, and collecting samples of the soil, groundwater, and surface water. None of these efforts will occur on private property, and officials will be careful not to disturb residents in nearby neighborhoods. When the investigation is over, all information will be published in Remedial Investigation reports which are scheduled for submittal in early 2019 and another in mid-2020.

4 Risk Assessments — Human health and ecological risk assessments help officials measure health risks to the public and environment. NERT is preparing risk assessments using data from the investigations to find the best cleanup solution. The risk assessments will be performed immediately following completion of the Remedial Investigation reports and are scheduled for submittal in mid-2019 and late 2020.

5 Feasibility Study — A Feasibility Study will help NERT find the best tools and technologies for addressing soil and groundwater contamination. In the end, it will help officials propose a final remedy for the NERT study area. Several treatability and pilot studies are already underway. As with the Remedial Investigation reports, two Feasibility Study reports will be prepared for the NERT study area and will be submitted in early 2021 and late 2021.

6 Selection of Proposed Remedy and Record of Decision — Following the Feasibility Study, NERT will create reports that explain the proposed remedy. The public will be able to review and comment on these reports. After addressing comments, officials will approve documents that describe the final remedy. Officials call these documents Records of Decision, or RODs. The final remedy will likely address the contamination by combining technologies, monitoring, and administrative actions (e.g., deed restrictions). Two RODs will be prepared for the NERT study area and are scheduled for completion in 2022.

7 Remedial Design and Remedial Action Implementation — After officials issue the RODs, NERT will put the approved final remedy into action. Depending on the remedy, NERT will make this happen through engineering and design efforts, construction, and administrative actions. The final remedy is scheduled to start in late 2024.



Where can I find more information about the NERT Site?

A summary of important information and milestone documents can be found at www.NERT-Trust.com and <http://ndep.nv.gov/environmental-cleanup/site-cleanup-program/active-cleanup-sites/bmi-complex/nevada-environmental-response-trust-nert>.

If you have additional questions, please contact the Community Involvement Coordinator at NDEP:

James (JD) Dotchin

Chief of Environmental Programs
Nevada Division of Environmental Protection
2030 E. Flamingo Road, Suite 230
Las Vegas, NV 89119
(702) 486-2850 x235
jdotchin@ndep.nv.gov

Where can I find more information about other investigations within the Black Mountain Industrial (BMI) Complex?

NDEP is overseeing additional remedial programs implemented by the Basic Remediation Company, Titanium Metals Corporation, Pioneer Americas, LLC d/b/a Olin Chlor Alkali Products, Stauffer, & Montrose, and Endeavour, LLC (PEPCON/AMPAC) within portions of the NERT RI Study Area and other areas of Henderson.

Background information and key documents are available via NDEP's website at <http://ndep.nv.gov/environmental-cleanup/site-cleanup-program/active-cleanup-sites/bmi-complex>.



Nevada Environmental Response Trust Remedial Investigation FAQ Sheet

November 2018

Officials continue to investigate an area in Henderson that is a source of historic contamination. This document answers common questions about the Remedial Investigation by the Nevada Environmental Response Trust (NERT). Many of these questions were asked in community interviews and surveys and at prior community meetings.

i Una versión en español de este documento también está disponible en el sitio web www.NERT-Trust.com o al contactar a James Dotchin (JD) por teléfono (702-486-2850 x 235) o por correo electrónico (jdotchin@ndep.nv.gov).

1. What is NERT?

NERT is short for the Nevada Environmental Response Trust and was established in 2011. NERT's goal is to manage and clean up contamination related to historic chemical plants on property formerly owned by Tronox Inc. This property is now owned by NERT and is called the "NERT Site."

NERT is not a business, and all its decisions are made to successfully clean up the NERT Site. All work performed by NERT is managed and overseen by the Nevada Division of Environmental Protection (NDEP) and the U.S. Environmental Protection Agency (EPA).

2. What is the purpose of the NERT Remedial Investigation?

The purpose is to fully investigate contamination at and around the NERT Site. The main contaminant is a chemical called perchlorate. NERT will use this information to do three things:

1. Keep contamination from leaving the NERT Site
2. Address contamination at the NERT Site
3. Address contamination that has previously moved off-site

3. What is the source of the contamination?

Investigators first detected perchlorate in the Lower Colorado River in 1997. They traced the contamination up the Las Vegas Wash to the NERT Site and a second area to the southwest called the PEPCON Site. Factories at both sites historically produced perchlorate. Perchlorate is used to make rocket fuels, missiles, fireworks, flares, and explosives.

Fast facts.

- ✓ You and your family are **not at risk**
- ✓ Perchlorate is a chemical used in rockets, fireworks, and explosives
- ✓ NERT continues to study the area to find the best cleanup remedy

NERT is not responsible for cleanup efforts at the PEPCON Site. Visit our website to learn more about the PEPCON Site cleanup:

- ndep.nv.gov/environmental-cleanup/site-cleanup-program/active-cleanup-sites/bmi-complex/american-pacific-ampac

4. Is my water safe to drink?

Yes — **your water is safe**. Drinking water for Henderson and the Las Vegas Valley comes primarily from Lake Mead, not groundwater, and **meets all safe drinking water standards**. Your drinking water is regularly tested, and water quality reports are accessible to the public.

Based on guidance from EPA, the State of Nevada has determined that water is safe to drink if it has less than 18 parts per billion (ppb) of perchlorate. On average, drinking water in the Las Vegas Valley only has 0.7 ppb of perchlorate.

Another contaminant that NERT is addressing is hexavalent chromium. EPA has determined that water is safe to use if it has 100 ppb or less of total chromium. On average, water in the Las Vegas Valley only has 0.27 ppb of total chromium. There is no EPA standard for hexavalent chromium, but total chromium adds both trivalent and hexavalent chromium together. The average hexavalent chromium level in the Las Vegas Valley is 0.20 ppb.

You can learn more about the quality of your water in the Las Vegas Valley Water District 2018 Water Quality Report:

- www.lvwwd.com/assets/pdf/water-quality-report-las-vegas-valley-current.pdf
- www.lvwwd.com/assets/pdf/water-quality-summary-las-vegas-valley.pdf

5. Are my family members or pets who live near the NERT Site at risk?

No — **you, your family, and your pets are not at risk**. The contamination is underground and dissolved in groundwater, which isn't the source of drinking water anywhere in greater Henderson. Studies also show that at least the top 10 feet of soil in residential areas around the site are free of contamination. The average depth to the groundwater in your neighborhood is 25 feet below the ground, well below the surface.

6. Is it safe for humans and animals to play in their yard near the NERT Site?

Yes — **you and your family may safely play in your yard**. Studies show that at least the top 10 feet of soil in the residential areas around the site is no different from soil elsewhere in the Las Vegas Valley. All soils meet health safety standards. The perchlorate and other contaminants being investigated in the area are dissolved in groundwater, which on average is 25 feet below the ground.

7. Can I grow and eat my own vegetables?

Yes — **it's safe to grow food in your garden**. Soil in your yard is similar to soil found across the Las Vegas Valley, which meets health safety standards.

8. Has there been a soil or groundwater study near my home, and will there be more in the future?

Not necessarily. Depending on where you live, there may have been or may be future studies near your home:

- **Neighborhoods within** the NERT RI Study Area (see blue area on the included map) may be part of a study. NDEP has already taken samples around the area and has plans to sample soil and groundwater again.
- **Neighborhoods outside** the NERT RI Study Area will not be part of a study. Only land in the study area is part of the NERT investigation. NDEP sent this information packet to all residents within a mile of the study area.

- If your home is **in the Cadence development**, your neighborhood has been investigated closely in a previous study. From this study, NDEP determined that the area is a safe, risk-free place to build a residential community. The NERT investigation does not affect this decision.

You may find the results of past and future investigations in your neighborhood in two upcoming remedial investigation reports, which will be available at www.NERT-Trust.com in early 2019 and 2020.

If you would like to know if there has been an investigation in your neighborhood, you may review the Administrative Record. The Administrative Record is available for review in the NDEP Las Vegas office located at 2030 E. Flamingo Rd, Suite 230, Las Vegas, NV, 89119. Key documents are also available online:

- ndep.nv.gov/environmental-cleanup/site-cleanup-program/active-cleanup-sites/bmi-complex/nevada-environmental-response-trust-nert
- www.NERT-Trust.com

9. Is there an air risk inside or outside of my home?

The air in and outside your home poses no immediate risk. Most contaminants being investigated in the study area have no effect on the air inside or outside your home. All investigations to date have not identified indoor or outdoor air risks. As part of the current NERT investigation, NDEP is collecting additional samples to confirm previous investigations. There are no health concerns in the Cadence development related to the NERT investigation.

Air emissions from operations at the NERT Site, including dust, are regulated and permitted by the Clark County Department of Air Quality. Activities conducted by NDEP at the NERT Site comply with all Clark County air regulations. The current site tenant conducts industrial operations on a portion of the NERT Site. Air emissions from these operations are the responsibility of the tenant and are permitted separately by the county. For more information on the tenant's air permits, please contact Mr. Richard Beckstead, Permitting Manager, Clark County Department of Air Quality, at 702-455-1669.

10. Do developers have information to inform potential buyers?

Yes, developers in the study area have been given access to information about these issues.

11. Will this contamination or cleanup efforts affect my property values?

Because NDEP staff are not experts in property values and real estate, we recommend that you contact a real estate expert to discuss these issues. NDEP is a Nevada government agency that focuses on environmental matters.

12. Is perchlorate from the NERT Site getting into the Las Vegas Wash or Lake Mead?

Yes, but **perchlorate levels have dropped by over 95%** since it was first discovered in 1997. Based on EPA guidance, the state of Nevada has determined that 18 ppb of perchlorate in drinking water is a safe level for all uses. The average perchlorate level in the Las Vegas Valley drinking water is a fraction of that — only 0.7 ppb.

You can learn more about the quality of your water in the Las Vegas Valley Water District 2018 Water Quality Report:

- www.lvwd.com/assets/pdf/water-quality-report-las-vegas-valley-current.pdf
- www.lvwd.com/assets/pdf/water-quality-summary-las-vegas-valley.pdf

13. What is the timing for the NERT investigation and cleanup?

We will continue to investigate groundwater, soil, soil gas, and surface water through 2019. NERT will submit the results of these investigations to officials in two reports in early 2019 and mid-2020. We will use our findings to begin feasibility studies in 2021. These studies will help NERT determine the best strategies and technologies to

address soil and groundwater contamination coming from the site. By 2022, officials will decide on a final remedy and anticipates NERT starting the final cleanup by late 2024. You can track NERT's progress at www.NERT-Trust.com.

14. Is all of this information public knowledge?

Yes — all information about the NERT investigation is available to the public. NERT held its third community meeting about the investigation in June 2017. NERT will continue to hold community meetings as the project continues.

15. Are there other investigations or contamination in Henderson?

Yes — NDEP is overseeing the cleanup efforts of several other organizations in the area:

- Basic Remediation Company
- Titanium Metals Corporation
- Pioneer Americas, LLC d/b/a Olin Chlor Alkali Products, Stauffer, & Montrose
- Endeavour, LLC (formerly PEPCON/AMPAC)

These efforts address contamination in parts of the NERT study area and other areas of Henderson. See the final section below on how to find more information about these programs. While NERT is only responsible for the impacts related to historic operations at the NERT Site, all of NERT's actions are coordinated through NDEP. NDEP oversees all cleanup programs within the Henderson area.

Questions and More Information

If you have additional questions or concerns, contact James Dotchin – NDEP Chief Environmental Programs, Bureau of Industrial Site Cleanup at **(702) 486-2850 x235** or jdotchin@ndep.nv.gov.

View official files at our office:

NDEP Las Vegas Office
2030 E. Flamingo Rd. Suite 230
Las Vegas, NV 89119

Contact Christa Smaling at 702-486-2850 x 254 or csmaling@ndep.nv.gov to schedule a file review. Please tell us a day in advance if you want to review files at our office.

For further details about NERT history, investigations, remedial efforts, and current activities:

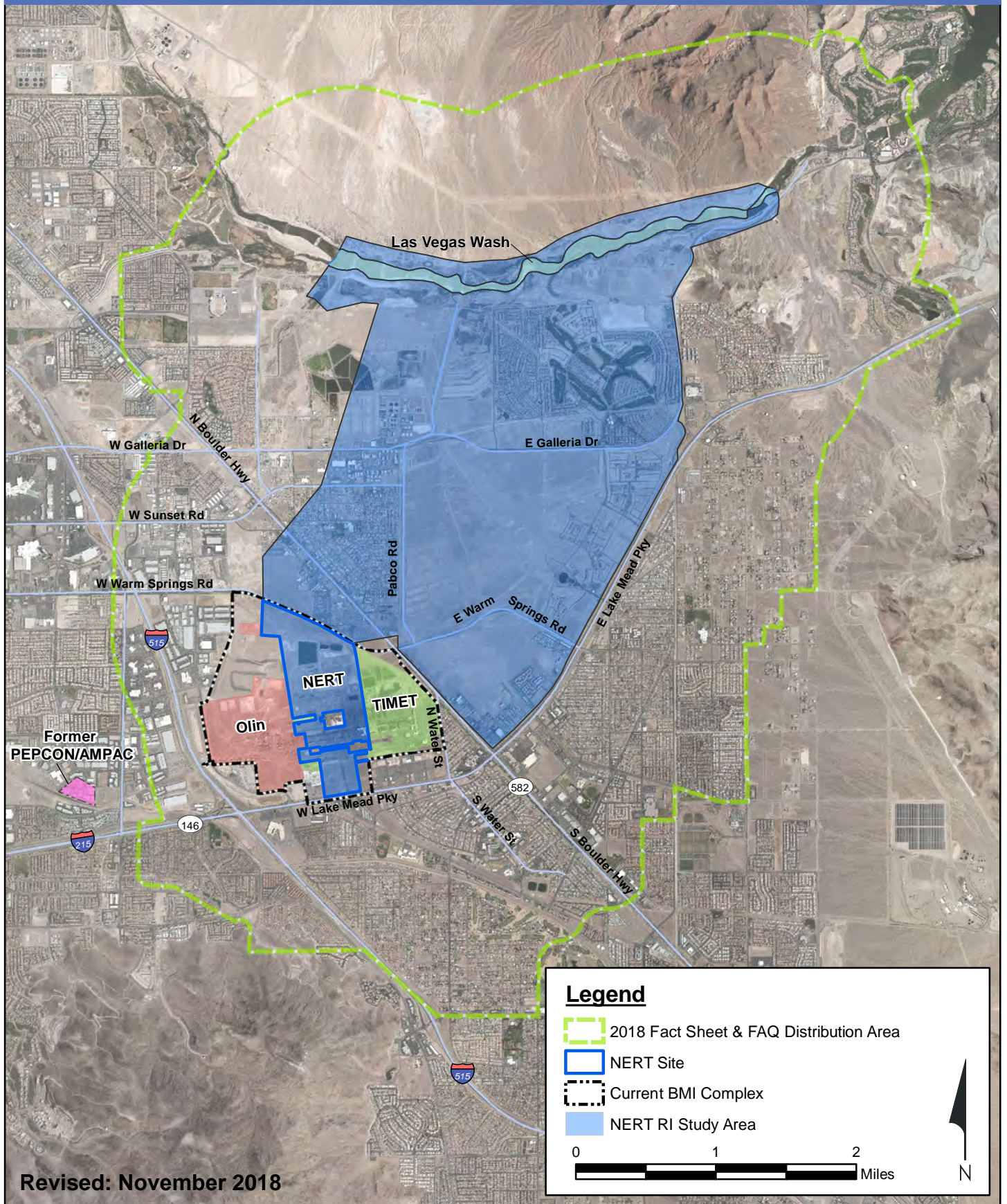
- www.NERT-Trust.com
- ndep.nv.gov/environmental-cleanup/site-cleanup-program/active-cleanup-sites/bmi-complex/nevada-environmental-response-trust-nert.

For info about other cleanups within the Black Mountain Industrial complex, visit ndep.nv.gov/environmental-cleanup/site-cleanup-program/active-cleanup-sites/bmi-complex.

Computers are available, free of charge, for public use at all Henderson libraries:

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- Paseo Verde Library — 280 S. Green Valley Parkway
- Green Valley Library — 2797 N. Green Valley Parkway
- Heritage Park Senior Center Library — 300 S. Racetrack Road

Nevada Environmental Response Trust (NERT) Remedial Investigation (RI) Study Area 2018 Fact Sheet & FAQ Distribution Area



Revised: November 2018



NEVADA DIVISION OF
**ENVIRONMENTAL
PROTECTION**

STATE OF NEVADA
Department of Conservation & Natural Resources

Brian Sandoval, Governor
Bradley Crowell, Director
Greg Lovato, Administrator

1 de diciembre 2018

Estimado residente:

Le hago llegar esta carta porque usted vive cerca del área que está siendo actualmente investigada por la División de Protección Ambiental de Nevada (Nevada Division of Environmental Protection) o NDEP (por sus siglas en inglés). Usted no está bajo ningún riesgo, pero me interesa informarle de las labores que se están llevando a cabo y responder cualquier pregunta que usted pudiera tener. La limpieza del medio ambiente es parte de la misión del NDEP para preservar y mejorar el medio ambiente del estado con el fin de proteger la salud pública, mantener ecosistemas saludables, y contribuir a una economía vibrante.

Nosotros estamos investigando de qué manera ciertos contaminantes de la propiedad que pertenecía previamente a Tronox y Kerr-McGee han afectado el Canal de Las Vegas (Las Vegas Wash), y el suelo y agua a su alrededor. NERT son las siglas de Nevada Environmental Response Trust (Fidecomiso de Respuesta Ambiental de Nevada). El NERT es el actual dueño de la propiedad que previamente le pertenecía a Tronox y Kerr-McGee y está actualmente a cargo de la investigación.

La inspección cubre las siguientes tres áreas principales:

- El Sitio NERT
- Partes no incorporadas del Condado de Clark
- Terrenos en Henderson entre el Sitio NERT y el Canal de Las Vegas

Hay un mapa de estas áreas al final de este paquete.

El contaminante de mayor interés es el perclorato, el cual fue anteriormente producido en el Sitio NERT antes de 1998. El perclorato es comúnmente usado para producir combustible de cohetes, misiles, llamaradas y explosivos. Otro contaminante de interés es el cromo, que también fue usado en el pasado en el Sitio NERT.

Adjunto a esta carta se encuentra una lista de preguntas frecuentes con sus respuestas (Frequently Asked Questions) o FAQ (por sus siglas en inglés). El FAQ contiene detalles acerca de los químicos de interés y de la historia del Sitio NERT. Estas preguntas fueron hechas previamente durante reuniones comunitarias y por medio de encuestas. También he incluido La Hoja de Datos (Fact Sheet) que describe el Sitio NERT y nuestro plan de limpieza.

Por último, quiero agradecerle personalmente si usted completó nuestro cuestionario o si asistió a una de nuestras reuniones comunitarias el año pasado. Mis colegas y yo agradecemos su aporte, preguntas e inquietudes.

Si tiene preguntas adicionales acerca de nuestra investigación o alguna pregunta que no fue respondida en este paquete, por favor contácteme al **702-486-2850 x 235** o a **jdotchin@ndep.nv.gov**. Si tiene alguna preocupación acerca de su salud, le recomiendo que consulte a su profesional de salud.

Atentamente,

James (JD) Dotchin
Chief Environmental Programs
Bureau of Industrial Site Clean-up
Nevada Division of Environmental Protection

Averigüe más acerca del sitio

Vea los documentos oficiales en nuestra oficina:

NDEP Las Vegas Office
2030 E. Flamingo Rd. Suite 230
Las Vegas, NV 89119

Comuníquese con Christa Smaling al 702-486-2850 x 254 o por correo electrónico a csmaling@ndep.nv.gov para programar una revisión de los documentos. Favor de notificarnos con un día de anticipación si desea revisar los documentos en nuestra oficina.

Lea los datos por internet:

- www.NERT-Trust.com
- ndep.nv.gov/environmental-cleanup/site-cleanup-program/active-cleanup-sites/bmi-complex/nevada-environmental-response-trust-nert

Para información acerca de otros sitios de limpieza dentro del Complejo Industrial Black Mountain (Black Mountain Industrial complex):

- ndep.nv.gov/environmental-cleanup/site-cleanup-program/active-cleanup-sites/bmi-complex

Hay computadoras disponibles sin costo alguno para uso público dentro de todas las bibliotecas de Henderson:

- James I. Gibson Library — 100 W. Lake Mead Parkway
- Paseo Verde Library — 280 S. Green Valley Parkway
- Green Valley Library — 2797 N. Green Valley Parkway
- Heritage Park Senior Center Library — 300 S. Racetrack Road

Hoja de Datos del Sitio NERT Noviembre 2018

HENDERSON, NEVADA

El Proceso de Remediación en el Sitio de Nevada Environmental Response Trust (NERT)

La División de Protección Ambiental de Nevada (NDEP, por sus siglas en inglés) y la Agencia de Protección Ambiental de Estados Unidos (EPA, por sus siglas en inglés) gestionan la remediación e investigación del Sitio de Nevada Environmental Response Trust o Fideicomiso de Respuesta Ambiental de Nevada (NERT). El Sitio NERT es parte del Complejo Industrial Black Mountain (BMI, por sus siglas en inglés) en Henderson, Nevada. El NERT fue establecido en el año 2011 como parte del acuerdo de bancarrota de Tronox Inc. Actualmente, el NERT es el dueño del sitio y maneja todas las labores de limpieza de contaminación causada por operaciones que ocurrieron antes del 2011.

Las labores de remediación en el Sitio NERT siguen las reglas ambientales de la EPA. Estos requisitos forman parte de la Ley Integral de Respuesta, Compensación y Responsabilidad Ambiental (CERCLA, por sus siglas en inglés), la cual está diseñada para identificar, investigar, y remediar sitios para proteger al público y el medio ambiente. El proceso de limpieza de CERCLA está mostrado en la figura (a la derecha) y es resumido posteriormente.

Perspectiva General — Las operaciones históricas en el Sitio NERT contaminaron el suelo y las aguas subterráneas con químicos. Las aguas subterráneas en Henderson no son una fuente de agua potable (ver el documento adjunto, Hoja de Preguntas Frecuentes sobre la Investigación de Remediación). El perclorato es el contaminante principal y fue históricamente producido en este sitio. El perclorato es comúnmente usado para la producción de combustible de cohetes y para misiles, juegos pirotécnicos y explosivos. El cromo hexavalente es otro contaminante de interés que también fue usado en el sitio. Parte de esta contaminación migro fuera del sitio en dirección hacia el norte hasta el Canal de Las Vegas (Las Vegas Wash).

El NERT está investigando la contaminación en un área de estudio establecida, llamada el Área de Estudio de la Investigación de Remediación de NERT (NERT Remedial Investigation (RI) Study Area). Esta área de estudio incluye el Sitio NERT y las áreas al norte y noreste del sitio (ver el mapa adjunto a este paquete). NERT tiene los siguientes tres objetivos principales:

1. Evitar que la contaminación salga del Sitio NERT.
2. Hacerse cargo de la contaminación en el Sitio NERT.
3. Hacerse cargo de la contaminación que previamente migro fuera del sitio.

1 Descubrimiento de la Contaminación / Investigación Inicial — Las operaciones pasadas en el Sitio NERT produjeron un químico llamado perclorato. El perclorato es comúnmente usado para el combustible de cohetes. Estas operaciones impactaron el suelo y las aguas subterráneas debajo del Sitio NERT. Aguas residuales de las operaciones industriales migraron hacia el noreste del Sitio NERT



por medio de zanjas (no recubiertas) y fueron descargadas en estanques de disposición (no recubiertos). Desde ese entonces, el Sitio NERT y sus áreas aledañas han sido parte de muchas investigaciones ambientales:

- **A finales de los años 1970:** La EPA, la NDEP, y el condado de Clark examinaron como las operaciones de la Industria Black Mountain (Black Mountain Industrial) pudieron haber afectado al medio ambiente.
- **A comienzos de los años 1980:** Funcionarios descubrieron aguas subterráneas contaminadas con cromo hexavalente.
- **1997:** La contaminación del Sitio NERT fue descubierta cerca del Canal de Las Vegas.

2 Acciones de Remoción — Desde principios de los años 1980, la contaminación dentro y alrededor del sitio ha sido significativamente reducida. El tratamiento del cromo hexavalente inició a mediados del año 1987, continúa hasta la fecha y se le atribuye la eliminación de más de 23 toneladas de cromo del medio ambiente. El tratamiento de perclorato se ha llevado a cabo de forma continua desde el año 1999, removiendo aproximadamente 4,900 toneladas de perclorato y reduciendo significativamente la cantidad de contaminación que migra al Canal de Las Vegas.

En los años 2010 y 2011, funcionarios removieron aproximadamente 568,000 yardas cúbicas de suelo contaminado del Sitio NERT. Fuera del Sitio NERT, otras entidades responsables han removido grandes cantidades de suelo después de una extensa campaña de muestreo de suelo.

Estas primeras acciones de remoción no son el remedio final, pero han reducido significativamente los riesgos dentro y alrededor del sitio. Como resultado, no hay riesgos inmediatos de salud pública o al medio ambiente cerca del Sitio NERT. Esto también aplica para el caso de la urbanización Cadence, la cual la NDEP declaró como segura para desarrollo.

3 Investigación de Remediación — A finales del año 2014, el NERT inició un amplio estudio ambiental y lo llamó Investigación de Remediación (Remedial Investigation) o RI (por sus siglas en inglés). Esta investigación se basa en estudios previos y le dará al NERT un entendimiento de que tan extensa es la contaminación. El NERT ha estado realizando perforaciones en el subsuelo, instalando pozos de agua subterránea y recolectando muestras de suelo, de agua subterránea y de aguas superficiales. Ninguna de estas labores se llevará a cabo en propiedades privadas, y los funcionarios tendrán cuidado de no molestar a los residentes en los vecindarios aledaños. Cuando la investigación termine, toda la información será publicada en los informes RI que están programados para ser entregados a principios del 2019 y a mediados del 2020.

4 Evaluación de Riesgos — Las evaluaciones de salud humana y de riesgos ecológicos ayudan a los funcionarios a medir los riesgos al público y al medio ambiente. El NERT está preparando evaluaciones de riesgos usando datos de las investigaciones para encontrar la mejor solución de limpieza. Las evaluaciones de riesgos serán realizadas inmediatamente después de que los informes RI sean completados y están programadas para ser entregadas a mediados del 2019 y a finales del 2020.

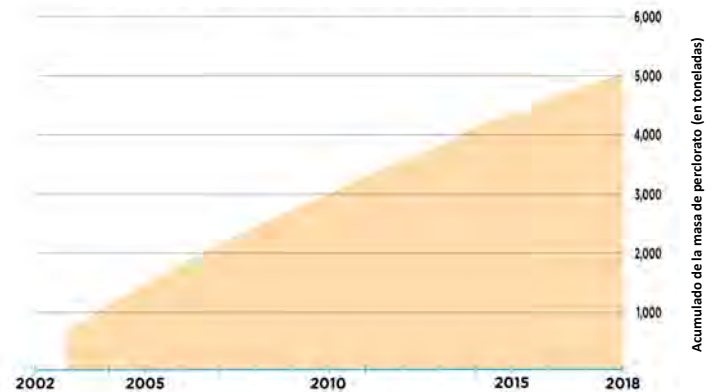
5 Estudio de Viabilidad — Un Estudio de Viabilidad (Feasibility Study) ayudará al NERT a encontrar las mejores herramientas y tecnologías para manejar la contaminación del suelo y aguas subterráneas. El estudio ayudará a los funcionarios a proponer una remediación final para el Sitio NERT. Varios estudios piloto de tratamiento ya se encuentran en marcha. Como en el caso de los informes de la Investigación de Remediación, dos informes de estudio

de viabilidad serán preparados para el área de estudio del Sitio NERT, los cuales serán entregados a principios y finales del 2021.

6 Selección de Propuestas de Remediación y Registro de Decisiones — Después del estudio de viabilidad, NERT generará informes que expliquen la propuesta de remediación. El público podrá revisar estos informes y hacer sus comentarios. Después de revisar y responder a los comentarios del público, los funcionarios aprobarán los documentos que describen la remediación final. Los funcionarios llaman estos documentos los Registros de Decisiones (Records of Decision) o ROD (por sus siglas en inglés). Se espera que la remediación final consistirá de una combinación de tecnologías, sistemas de monitoreo, y acciones administrativas (por ejemplo, restricciones de título). Se prepararán dos RODs para el área de estudio del Sitio NERT, los cuales están programados para ser finalizados en el 2022.

7 Diseño de Remediación e Implementación de las Acciones de Remediación — Después de que los funcionarios emitan los RODs, el NERT implementará la remediación final aprobada. Dependiendo de la remediación que sea seleccionada, el NERT llevará esto a cabo por medio de labores de ingeniería, diseño, construcción, y acciones administrativas. La remediación final está programada para comenzar a finales del 2024.

El total de perclorato removido por el Sistema de tratamiento del sitio a través del tiempo



¿Dónde puedo encontrar más información acerca del Sitio NERT?

Un resumen de información importante y documentos de logros alcanzados se encuentran en www.NERT-Trust.com y <http://ndep.nv.gov/environmental-cleanup/site-cleanup-program/active-cleanup-sites/bmi-complex/nevada-environmental-response-trust-nerf>.

Si tiene preguntas adicionales, por favor contacte al Coordinador de Participación Comunitaria (Community Involvement Coordinator) del NDEP:

James (JD) Dotchin
Chief of Environmental Programs
Nevada Division of Environmental Protection
2030 E. Flamingo Road, Suite 230
Las Vegas, NV 89119
(702) 486-2850 x235
jdotchin@ndep.nv.gov

¿Dónde puedo encontrar más información acerca de otras investigaciones dentro del Complejo Industrial Black Mountain?

La NDEP está supervisando otros programas de remediación implementados por Basic Remediation Company, Titanium Metals Corporation, Pioneer Americas, LLC d/b/a Olin Chlor Alkali Products, Stauffer, & Montrose, y Endeavour, LLC (PEPCON/AMPAC) ubicados dentro de la zona de estudio de la Investigación de Remediación de NERT y otras áreas de Henderson.

Información de antecedentes y documentos clave están disponibles en la página web de NDEP en <http://ndep.nv.gov/environmental-cleanup/site-cleanup-program/active-cleanup-sites/bmi-complex>.



Nevada Environmental Response Trust (NERT)

Hoja de Preguntas Frecuentes sobre la Investigación de Remediación

Noviembre 2018

Funcionarios continúan investigando una zona en Henderson que es la fuente de contaminación histórica. Este documento responde las preguntas más frecuentes acerca de la investigación de remediación del Fidecomiso de Respuesta Ambiental de Nevada (Nevada Environmental Response Trust) o NERT (por sus siglas en inglés). Muchas de estas preguntas fueron hechas durante entrevistas, encuestas y previas reuniones comunitarias.

1. ¿Qué es el NERT?

NERT son las siglas de Nevada Environmental Response Trust, un fidecomiso que fue establecido en el 2011. El objetivo del NERT es administrar y limpiar la contaminación relacionada con plantas químicas ubicadas históricamente en la propiedad que perteneció a Tronox Inc. Actualmente, esta propiedad le pertenece a NERT y es llamada el "Sitio NERT".

El NERT no es una empresa o negocio y todas sus decisiones se hacen para lograr una limpieza exitosa del Sitio NERT. Todo el trabajo hecho por el NERT es dirigido y supervisado por la División de Protección Ambiental de Nevada (Nevada Division of Environmental Protection) o NDEP (por sus siglas en inglés) y la Agencia de Protección Ambiental de Estados Unidos (U.S. Environmental Protection Agency) o EPA (por sus siglas en inglés).

2. ¿Cuál es el propósito de la Investigación de Remediación del NERT?

Su propósito es investigar exhaustivamente la contaminación dentro y alrededor del Sitio NERT. El contaminante principal es un químico conocido como perclorato. El NERT usará esta información para hacer tres cosas:

1. Evitar que la contaminación migre fuera del sitio.
2. Hacerse cargo de la contaminación en el Sitio NERT.
3. Hacerse cargo de la contaminación que previamente migro fuera del Sitio NERT.

Datos Básicos.

- ✓ Usted y su familia **no están en riesgo**
- ✓ El perclorato es un químico usado en misiles, juegos pirotécnicos y explosivos
- ✓ El NERT continúa estudiando el área para encontrar el mejor remedio de limpieza

3. ¿Cuál es la fuente de contaminación?

El perclorato fue por primera vez detectado en el río Lower Colorado en el año 1997 por investigadores. Los investigadores rastrearon la contaminación desde el Canal de Las Vegas (Las Vegas Wash) hasta el Sitio NERT y también hacia una segunda zona al suroeste llamada Sitio PEPCON. Las fábricas que funcionaron en estos dos sitios históricamente produjeron perclorato. El perclorato es usado para producir combustible de cohetes, misiles, juegos pirotécnicos, llamaradas y explosivos.

El NERT no es responsable por los esfuerzos de limpieza en el Sitio PEPCON. Visite nuestra página web para aprender más acerca de la limpieza del Sitio PEPCON:

- ndep.nv.gov/environmental-cleanup/site-cleanup-program/active-cleanup-sites/bmi-complex/american-pacific-ampac

4. ¿Mi agua potable es segura para consumo?

Sí, su agua es segura para consumo. El agua potable de Henderson y del Valle de Las Vegas proviene principalmente del lago Mead y no de aguas subterráneas. El agua **cumple con todos los estándares de salubridad para su consumo**. Su agua es examinada regularmente y los informes de salubridad del agua están disponibles al público.

Guiado por la EPA, el estado de Nevada ha determinado que el agua es segura para su consumo si contiene menos de 18 partes por mil millones (ppb) de perclorato. Dentro del Valle de Las Vegas, el agua contiene solamente un promedio de 0.7 ppb de perclorato.

Otro contaminante del que el NERT se está haciendo cargo es el cromo hexavalente. La EPA ha determinado que el agua es segura para su consumo si contiene 100 ppb o menos de cromo total. Dentro del Valle de Las Vegas, el agua contiene solamente un promedio de 0.27 ppb de cromo total. No existe un estándar de salubridad para el cromo hexavalente, pero cromo total equivale la suma de cromo trivalente y cromo hexavalente. Dentro del Valle de Las Vegas, el agua contiene un promedio de 0.2 ppb de cromo hexavalente.

Usted puede aprender más acerca de la calidad de su agua en el Informe de la Calidad del Agua del Distrito del Agua del Valle de Las Vegas del 2018:

- <https://www.lvvwd.com/assets/pdf/water-quality-report-las-vegas-valley-esp-current.pdf>
- www.lvvwd.com/assets/pdf/water-quality-summary-las-vegas-valley.pdf

5. ¿Existe algún riesgo para mi familia y/o mascotas que viven cerca del Sitio NERT?

No, usted, su familia y sus mascotas no están en riesgo. La contaminación bajo tierra y se encuentra disuelta en aguas subterráneas y esta no es la fuente de agua potable para el ningún área o la ciudad de Henderson. Los estudios también indican que en las áreas residenciales alrededor del Sitio NERT, por lo menos los primeros 10 pies de profundidad de suelo están libres de contaminación. El agua subterránea de su vecindario se encuentra a una profundidad promedio de 25 pies, muy por debajo de la superficie.

6. ¿Es seguro que los humanos y sus mascotas jueguen en sus patios cerca del Sitio NERT?

Sí, usted y su familia pueden jugar en su patio con seguridad. Los estudios indican que al menos los primeros 10 pies de profundidad de suelo en las áreas residenciales alrededor del Sitio NERT no son diferentes a cualquier otro suelo en el Valle de Las Vegas. Todos los suelos satisfacen los estándares de salud. El perclorato y los otros

contaminantes bajo investigación están disueltos en el agua subterránea que en promedio se encuentra a 25 pies de profundidad.

7. ¿Puedo cultivar y comer mis propios vegetales?

Sí, es seguro cultivar alimentos en su jardín. El suelo de su propiedad es similar al suelo de todo el Valle de Las Vegas el cual cumple con todos los estándares de salud.

8. ¿Ha habido un estudio de suelo o agua subterránea cerca de mi hogar? ¿Habrán más investigaciones en un futuro?

No necesariamente. Dependiendo de donde viva pueden haber habido o podrían haber estudios futuros cerca de su hogar:

- **Los vecindarios dentro** de la zona de Estudio de la Investigación de Remediación del NERT (ver la zona azul en el mapa incluido) podrían ser parte de un estudio. La NDEP ya empezó a tomar muestras alrededor de la zona y tiene planes de volver a muestrear el suelo y el agua subterránea.
- **Los vecindarios fuera** de la zona de Estudio de la Investigación de Remediación del NERT no serán parte del estudio. Solo el terreno en la zona de estudio es parte de la investigación del NERT. La NDEP envió este paquete informativo a todos los residentes que viven dentro de un radio de una milla de la zona de estudio.
- Si su hogar se encuentra dentro de la **Urbanización Cadence**, su vecindario ha sido investigado detalladamente en un estudio previo. En base a este estudio, la NDEP determinó que la zona es segura y libre de riesgo para construir una comunidad residencial. La investigación del NERT no afecta esta decisión.

Usted puede encontrar los resultados de las investigaciones pasadas y futuras de su vecindario en dos informes de investigación de remediación que estarán disponibles en www.nert-trust.com a principios del 2019 y 2020.

Si a usted le interesa saber si ha habido una investigación en su vecindario, usted puede revisar El Registro Administrativo (Administrative Records). El Registro Administrativo está disponible para su revisión en la oficina de NDEP en Las Vegas ubicada en 2030 E. Flamingo Rd., Suite 230, Las Vegas, NV, 89119. Los documentos clave también están disponibles por internet:

- ndep.nv.gov/environmental-cleanup/site-cleanup-program/active-cleanup-sites/bmi-complex/nevada-environmental-response-trust-nert
- www.NERT-Trust.com

9. ¿Hay riesgo con el aire dentro o fuera de mi hogar?

El aire dentro y fuera de su hogar no presenta ningún riesgo inmediato. La mayoría de los contaminantes que están siendo investigados en la zona de estudio no tienen ningún efecto en el aire dentro o fuera de su hogar. Hasta la fecha, ninguna investigación ha identificado riesgos en el aire dentro o fuera de los hogares en esta zona. Como parte de la investigación del NERT, la NDEP está recolectando muestras adicionales para confirmar los resultados de las investigaciones anteriores. No hay ninguna preocupación actual de salud en la Urbanización Cadence relacionada a la investigación del NERT.

El Departamento de Calidad del Aire del Condado de Clark (Clark County Department of Air Quality) regula y otorga permisos relacionados a las emisiones atmosféricas provenientes de operaciones en el Sitio NERT. Las actividades llevadas a cabo por la NDEP en el Sitio NERT cumplen con todas las regulaciones de emisiones atmosféricas del condado de Clark. El inquilino actual está llevando a cabo operaciones industriales en una porción del Sitio NERT. Las emisiones atmosféricas provenientes de estas operaciones son responsabilidad del inquilino y son reguladas separadamente por el mismo condado. Para más información acerca de los permisos de

emisiones atmosféricas del inquilino, por favor contacte a Mr. Richard Beckstead, Gerente de Permisos del Departamento de Calidad del Aire del Condado de Clark al 702-455-1669.

10. ¿Los desarrolladores tienen información para informar a compradores potenciales?

Sí, los desarrolladores en el área de estudio han sido proveídos con acceso a la información sobre estos asuntos.

11. ¿Esta contaminación o los esfuerzos de limpieza afectarán el valor de mi propiedad?

La NDEP es una agencia gubernamental de Nevada que se enfoca en asuntos ambientales. Debido a que el personal de la NDEP no cuenta con expertos en valoración de propiedades o bienes raíces, le recomendamos que se ponga en contacto con un experto en bienes raíces para discutir estos temas.

12. ¿El perclorato del Sitio NERT está entrando a Las Vegas Wash o a el lago Mead?

Sí, pero los niveles de perclorato han disminuido por más de 95% desde que se descubrió por primera vez en el año 1997. Según las recomendaciones en la guía de la EPA, el estado de Nevada ha determinado que 18 ppb de perclorato en el agua potable es un nivel seguro para todos los usos. El nivel promedio de perclorato en el agua potable en el Valle de Las Vegas es una fracción de eso, solo 0.7ppb.

Usted puede aprender más acerca de la calidad de su agua en el Informe de la Calidad del Agua del Distrito del Agua del Valle de Las Vegas del 2018:

- <https://www.lvwwd.com/assets/pdf/water-quality-report-las-vegas-valley-esp-current.pdf>
- www.lvwwd.com/assets/pdf/water-quality-summary-las-vegas-valley.pdf

13. ¿Cuál es la línea de tiempo para la investigación y limpieza del NERT?

Continuaremos investigando aguas subterráneas, suelo, gases del suelo, y aguas superficiales hasta el 2019. El NERT entregará los resultados de estas investigaciones a los funcionarios por medio de dos informes a principios del 2019 y a mediados del 2020. Usaremos nuestros hallazgos para comenzar los estudios de viabilidad en el 2021. Estos estudios ayudarán al NERT a determinar las mejores estrategias y tecnologías para abordar la contaminación de suelo y de agua subterránea proveniente del sitio. Para el 2022, los funcionarios decidirán sobre una remediación final y anticipan que el NERT comenzará la limpieza final a finales del 2024. Usted puede seguir el progreso del NERT en la siguiente página web: www.NERT-Trust.com.

14. ¿Toda esta información es de conocimiento público?

Sí. Toda la información sobre la investigación del NERT está disponible al público. En junio de 2017, el NERT llevó a cabo su tercera reunión comunitaria sobre la investigación. El NERT continuará organizando reuniones comunitarias a medida que el proyecto de investigación continúe.

15. ¿Hay otras investigaciones y/o contaminación en Henderson?

Sí. La NDEP está supervisando otras organizaciones y sus esfuerzos de limpieza en la zona. Estas organizaciones incluyen:

- Basic Remediation Company
- Titanium Metals Corporation
- Pioneer Americas, LLC d/b/a Olin Chlor Alkali Products, Stauffer, & Montrose
- Endeavour, LLC (anteriormente PEPCON/AMPAC)

Estos esfuerzos abordan la contaminación en partes de la zona de estudio del NERT y otras áreas de Henderson. Vea la sección final a continuación sobre cómo encontrar más información acerca de estos programas. Aunque el NERT solo es responsable de los impactos relacionados con las operaciones históricas en el Sitio NERT, todas las acciones del NERT son coordinadas a través de la NDEP. La NDEP supervisa todos los programas de limpieza dentro del área de Henderson.

Preguntas e Información Adicional

Si tiene preguntas o inquietudes adicionales, contacte a James Dotchin – NDEP Chief Environmental Programs, Bureau of Industrial Site Cleanup al **(702) 486-2850 x235** o jdotchin@ndep.nv.gov.

Vea archivos oficiales en nuestra oficina:

NDEP Las Vegas Office
2030 E. Flamingo Rd. Suite 230
Las Vegas, NV 89119

Comuníquese con Christa Smaling al 702-486-2850 x 254 o por correo electrónico a csmaling@ndep.nv.gov para programar una revisión de los documentos. Por favor notifíquenos con un día de anticipación si desea revisar los documentos en nuestra oficina.

Para más detalles acerca de la historia del NERT, investigaciones, esfuerzos de remediación y actividades actuales:

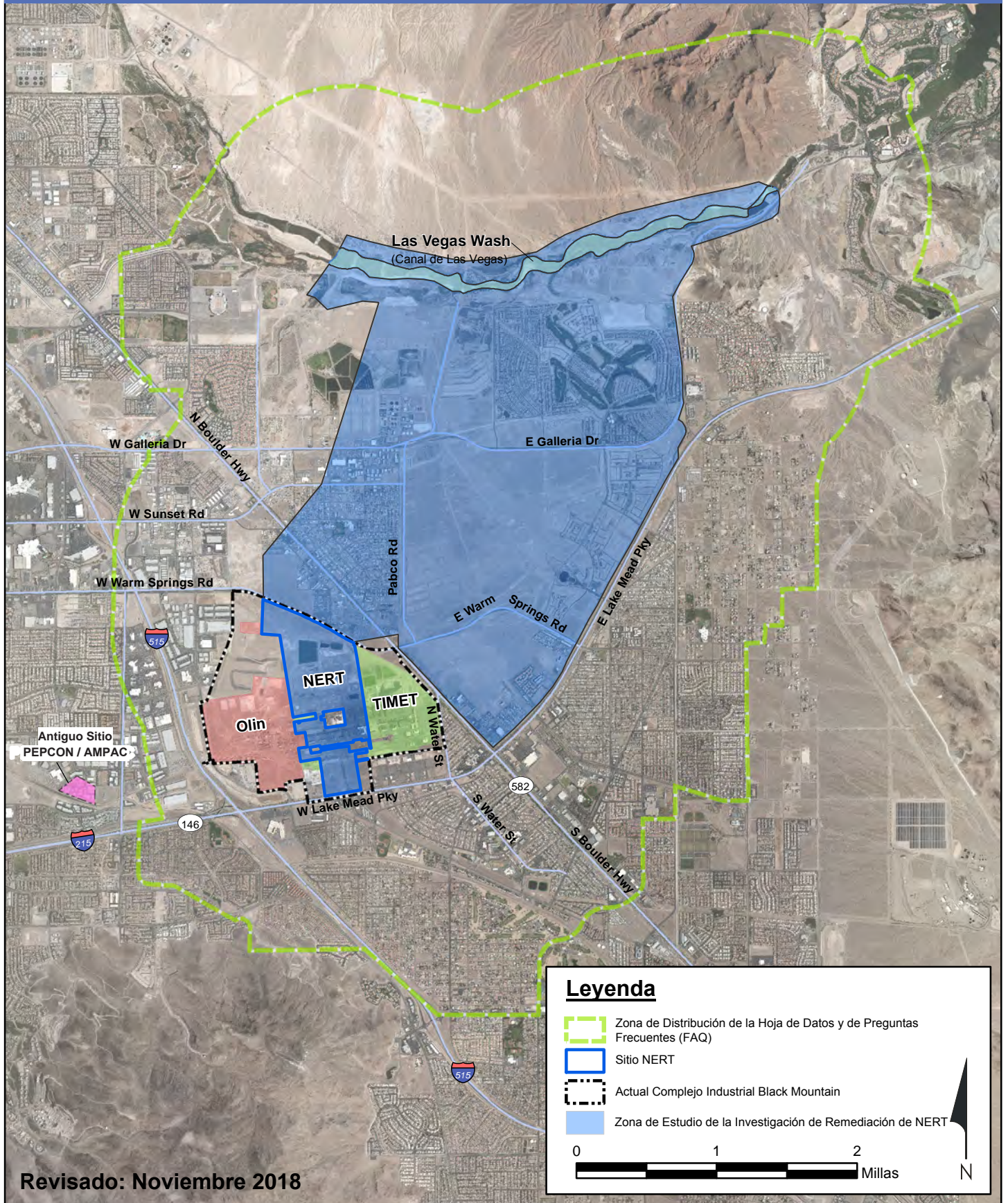
- www.NERT-Trust.com
- ndep.nv.gov/environmental-cleanup/site-cleanup-program/active-cleanup-sites/bmi-complex/nevada-environmental-response-trust-nert.

Para información acerca de otros sitios de limpieza dentro del Complejo Industrial Black Mountain (Black Mountain Industrial complex) visite ndep.nv.gov/environmental-cleanup/site-cleanup-program/active-cleanup-sites/bmi-complex.

Hay computadoras disponibles sin costo alguno para uso público dentro de todas las bibliotecas de Henderson:

- James I. Gibson Library — 100 W. Lake Mead Parkway
- Paseo Verde Library — 280 S. Green Valley Parkway
- Green Valley Library — 2797 N. Green Valley Parkway
- Heritage Park Senior Center Library — 300 S. Racetrack Road

Fidecomiso de Respuesta Ambiental de Nevada (NERT) Zona de Estudio de la Investigación de Remediación Zona de Distribución de Hoja de Datos y de Preguntas Frecuentes 2018



Revisado: Noviembre 2018

Community Involvement Plan, Revision 4
Nevada Environmental Response Trust Site
Henderson, Nevada

**ATTACHMENT E-11
DECEMBER 2019 COMMUNITY INFORMATION
DOCUMENTS PROVIDED IN MAILING**



December 20, 2019

Dear Resident:

① **Una versión en español** de este documento también está disponible en el sitio web www.NERT-Trust.com o al contactar a James Dotchin (JD) por teléfono (702-486-2850 x 235) o por correo electrónico (jdotchin@ndep.nv.gov).

I am writing to you because you live near an area being investigated by the Nevada Division of Environmental Protection (NDEP). You are not at risk, but I want to inform you about our ongoing work and respond to concerns you may have. Cleanup of the environment is part of NDEP's mission to preserve and enhance the environment of the State in order to protect public health, sustain healthy ecosystems, and contribute to a vibrant economy.

We are investigating how pollutants from property formerly owned by Tronox and Kerr-McGee have affected the Las Vegas Wash and nearby soil and water. NERT — short for the Nevada Environmental Response Trust — now owns the former Tronox/Kerr-McGee property (NERT Site) and is responsible for the investigation.

The investigation covers three main areas:

- The NERT Site.
- Unincorporated parts of Clark County.
- Land in Henderson between the NERT Site and the Las Vegas Wash.

See the back of this packet for a map of these areas.

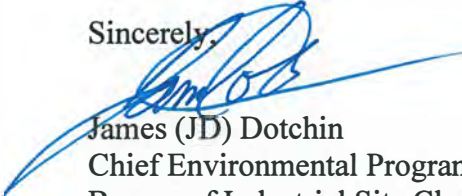
The main chemical we are concerned about is perchlorate, which was made at the NERT Site before 1998. Perchlorate is used to produce rocket fuel, missiles, fireworks, flares, and explosives. Another chemical of concern is hexavalent chromium, which was also used on the NERT Site.

I have attached a fact sheet that describes the NERT Site and our plan for cleaning it up. We update and distribute these on an annual basis to keep you up-to-date on cleanup status.

I also want to personally thank you if you completed our questionnaires or attended one of our public meetings concerning the NERT Site. My colleagues and I appreciate your input, questions, and concerns. We anticipate scheduling our next community meeting in late 2020 and will send a letter at that time with additional details.

If you have any questions about our investigation or questions not answered in this packet, please contact me at (702) 486-2850 x 235 or jdotchin@ndep.nv.gov. For concerns related to your health, I encourage you to see your health care professional.

Sincerely,



James (JD) Dotchin
Chief Environmental Programs
Bureau of Industrial Site Cleanup
Nevada Division of Environmental Protection

Learn more about the site

View official files at our office:

NDEP Las Vegas Office
2030 E. Flamingo Rd. Suite 230
Las Vegas, NV 89119

Contact Christa Smaling at 702-486-2850 x 254 or csmling@ndep.nv.gov to schedule a file review. Please tell us a day in advance if you want to review files at our office.

Read about our efforts online:

- www.NERT-Trust.com
- <https://ndep.nv.gov/environmental-cleanup/site-cleanup-program/active-cleanup-sites/bmi-complex/nevada-environmental-response-trust-nertr>

For info about other, unrelated cleanups within the Black Mountain Industrial complex:

- <https://ndep.nv.gov/environmental-cleanup/site-cleanup-program/active-cleanup-sites/bmi-complex>

Computers are available, free of charge, for public use at all Henderson libraries:

- James I. Gibson Library — 100 W. Lake Mead Parkway
- Paseo Verde Library — 280 S. Green Valley Parkway
- Green Valley Library — 2797 N. Green Valley Parkway
- Heritage Park Senior Center Library — 300 S. Racetrack Road

Fact Sheet

Nevada Environmental Response Trust Site

December 2019

HENDERSON, NEVADA

Una versión en español de este documento también está disponible en el sitio web www.NERT-Trust.com o al contactar a James Dotchin (JD) por teléfono (702-486-2850 x 235) o por correo electrónico (jdotchin@ndep.nv.gov).

Cleanup Process at the Nevada Environmental Response Trust (NERT) Site

The Nevada Division of Environmental Protection (NDEP) and the United States Environmental Protection Agency (EPA) manage all cleanup and investigation activities at the NERT Site. The NERT Site is part of the Black Mountain Industrial Complex in Henderson, Nevada. NERT was created in 2011 as part of Tronox Inc.'s bankruptcy. Today, NERT owns the Site and handles efforts to clean up contamination caused by operations before 2011. NERT is only responsible for cleanup and investigation activities associated with the NERT Site. This is consistent with the specifics of the Tronox bankruptcy. Environmental cleanup at nearby properties within the Black Mountain Industrial Complex are also overseen by NDEP, but these are outside the scope of this fact sheet.

Fast Facts:

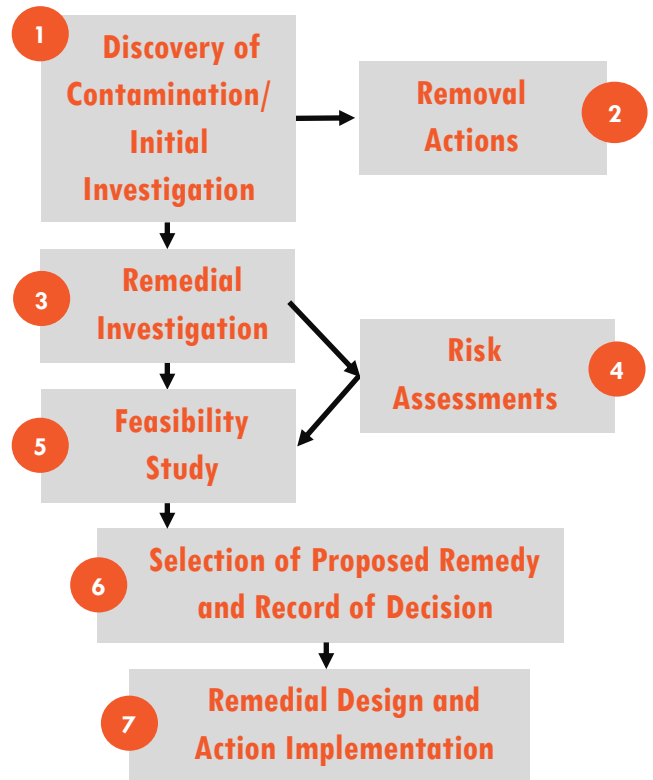
- Groundwater is not a source of drinking water in Henderson.
- Since 1987, officials have cleaned up much of the contamination at the NERT Site.
- NERT collected nearly 2,000 samples in 2019 to help inform final cleanup efforts.

Cleanup at the NERT Site follows the environmental rules of the EPA. These requirements are part of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). It is designed to identify, investigate, and clean up sites to protect the public and the environment. The CERCLA cleanup process is shown in the figure on the right and is summarized below.

Overview — Historical operations at the NERT Site contaminated the soil and underlying groundwater with two primary chemicals. Groundwater is not a source of drinking water in Henderson. Perchlorate — the main contaminant — was historically manufactured at the Site. Perchlorate is often used to produce rocket fuel, missiles, fireworks, flares, and explosives. Hexavalent chromium, another chemical that was used on the Site, is another contaminant of concern. Some of this contamination moved off-site, as far north as the Las Vegas Wash.

NERT is investigating this contamination in an established study area, called the NERT Remedial Investigation Study Area. This study area includes the NERT Site and areas to the north and northeast of the NERT Site (see the map included in this packet).

CERCLA Clean Up Process



NERT has three main goals:

- 1) Keep additional contamination from leaving the NERT Site.
- 2) Address contamination at the NERT Site.
- 3) Address contamination that has moved off-site.

1 Discovery of Contamination/Initial Investigation —

Historical operations at the NERT Site affected soil and groundwater beneath the property. Wastewater from historical operations also moved northeast of the NERT Site through unlined ditches into unlined disposal ponds. Since then, the NERT Site and surrounding area have been part of many environmental investigations:

- **Late 1970s:** EPA, NDEP, and Clark County examined how the entirety of Black Mountain Industrial operations (i.e. not limited to what NERT is currently investigating) might have affected the environment.
- **Early 1980s:** Officials discovered groundwater contaminated with hexavalent chromium under the NERT Site.
- **1997:** Officials discovered groundwater contaminated with perchlorate near the Las Vegas Wash.

2 Removal Actions — NERT cleanup technologies have already significantly cut contamination on and around the NERT Site. These first cleanup actions are not the final remedy, but they did greatly reduce risks at and around the NERT Site (*see next page*):

- Since 1987, over 25 tons of hexavalent chromium have been removed from the environment.
- Around 5,700 tons of perchlorate have been removed through active treatment since 1999, which has significantly reduced the amount of contamination entering the Las Vegas Wash.
- From 2010 to 2019, officials removed around 585,100 cubic yards of contaminated soil from the NERT Site.

As a result, there are no immediate health risks to the public or environment near the NERT Site. The same is true for the nearby Cadence development, which NDEP cleared for safe development in 2015. However, NERT's actions are not connected to or in any way affect the status of the Cadence development.

3 Remedial Investigation — Remedial Investigation reports due: one in mid-2020 and a second in mid-2021

In late 2014, NERT began a broad environmental study called a Remedial Investigation. The investigation builds on earlier studies and will help NERT understand the extent of the contamination throughout the entire study area as depicted on the attached map. NERT has been installing groundwater monitoring wells, and collecting samples of the soil, soil gas, groundwater, and surface water.

Since last year NERT has collected:

- 400 soil samples
- 1,475 groundwater and surface water samples
- 68 soil gas samples

As part of the investigation, NERT has identified areas that need more sampling to help define the extent of contamination, and such efforts are currently in progress. None of these efforts have or will occur on private property, and officials will be careful not to disturb residents in nearby neighborhoods. When the investigation is complete, all information will be published in two Remedial Investigation reports.

4 Risk Assessments — Risk Assessment reports due: in late 2020 and in late 2021

Human health and ecological risk assessments help officials measure health risks to the public and environment. NERT is preparing risk assessments using data from the Remedial Investigation to find the best cleanup solution. The risk assessments will be performed immediately following completion of the Remedial Investigation reports.

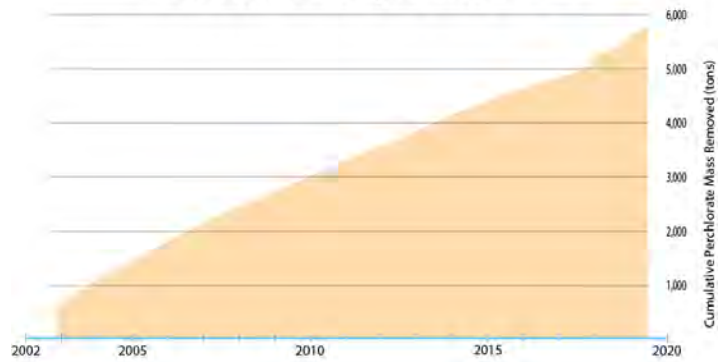
Where can I find more information about the NERT Site?

A summary of important information and milestone documents can be found at www.NERT-Trust.com and <http://ndep.nv.gov/environmental-cleanup/site-cleanup-program/active-cleanup-sites/bmi-complex/nevada-environmental-response-trust-nert>.

If you have additional questions, please contact the Community Involvement Coordinator at NDEP:

James (JD) Dotchin
 Chief Environmental Programs
 Bureau of Industrial Site Cleanup
 Nevada Division of Environmental Protection
 2030 E. Flamingo Road, Suite 230
 Las Vegas, NV 89119
 (702) 486-2850 x235
jdotchin@ndep.nv.gov

Total Perchlorate Removed By the Site's Treatment System Over Time



5 Feasibility Study — Feasibility Study reports due: Both in late 2022

A Feasibility Study will help NERT find the best tools and technologies for addressing soil and groundwater contamination. In the end, it will help officials propose a final remedy for the NERT study area. Several studies are already underway to evaluate different cleanup approaches. As with the Remedial Investigation reports, two Feasibility Study reports will be prepared for the NERT study area.

6 Selection of Proposed Remedy and Record of Decision — Records of Decision due: Both in late 2023

Following the Feasibility Study, NERT will create reports that explain the proposed remedy. The public will be able to review and comment on these reports. After addressing comments, officials will approve documents that describe the final remedy. Officials call these documents Records of Decision, or RODs. The final remedy will likely address the contamination by combining technologies, monitoring, and administrative actions (e.g., deed restrictions). Two RODs will be prepared for the NERT study area.

7 Remedial Design and Remedial Action Implementation — Design and construction begins: following issuance of RODs

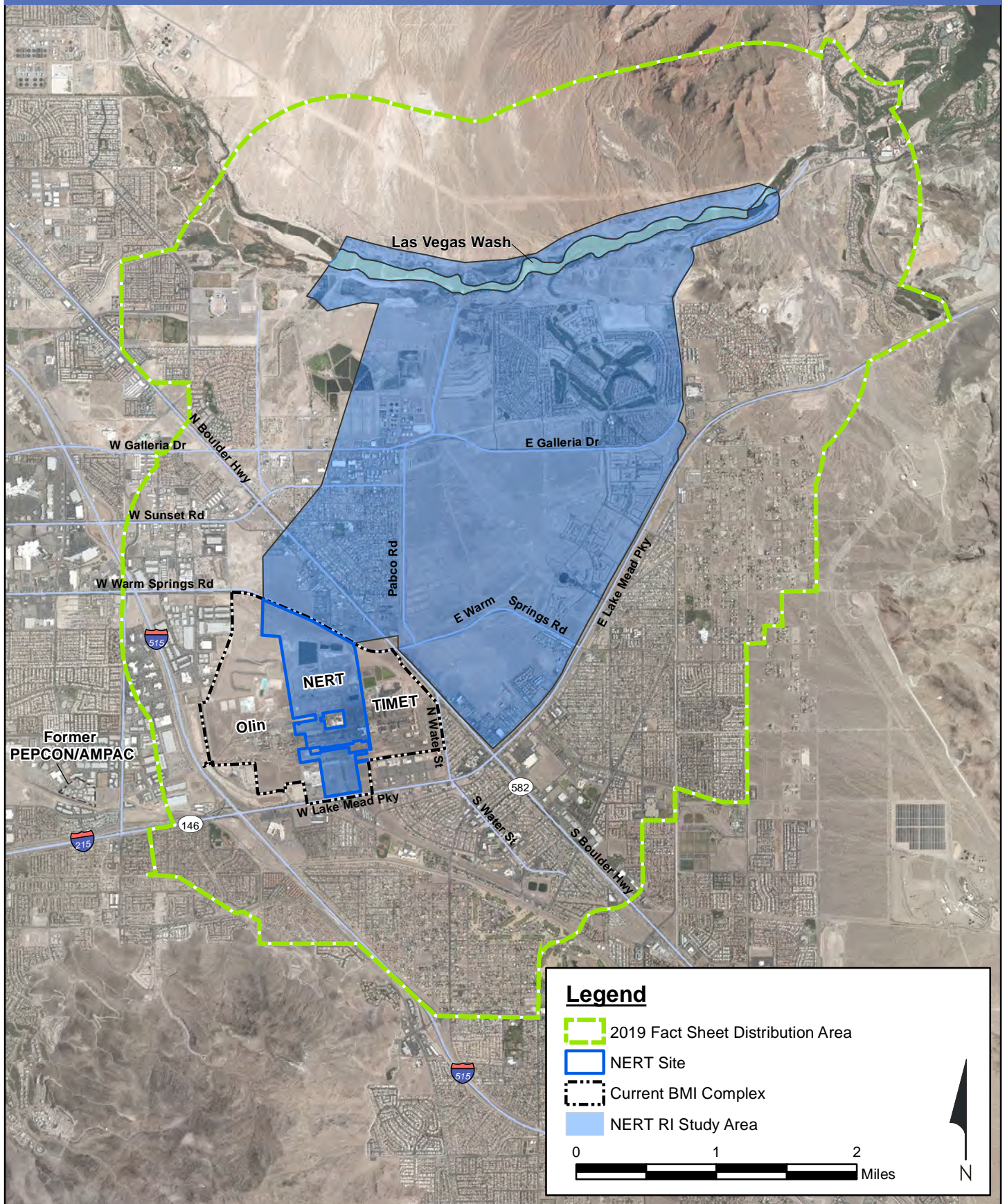
After officials issue the RODs, NERT will put the approved final remedy into action. Depending on the remedy, NERT will make this happen through engineering and design efforts, construction, and administrative actions. The design and construction efforts will begin following issuance of the RODs.

Where can I find more information about other investigations within the Black Mountain Industrial (BMI) Complex?

NDEP is overseeing additional cleanup programs in other parts of the NERT study area and other areas of Henderson. These programs are being implemented by the Basic Remediation Company, Titanium Metals Corporation, Pioneer Americas, LLC d/b/a Olin Chlor Alkali Products, Stauffer, Montrose, and Endeavour, LLC (PEPCON/AMPAC).

Background information and key documents are available via NDEP's website at <http://ndep.nv.gov/environmental-cleanup/site-cleanup-program/active-cleanup-sites/bmi-complex>.

Nevada Environmental Response Trust (NERT) Remedial Investigation (RI) Study Area 2019 Fact Sheet Distribution Area





NEVADA DIVISION OF
**ENVIRONMENTAL
PROTECTION**

STATE OF NEVADA
Department of Conservation & Natural Resources

Steve Sisolak, *Governor*
Bradley Crowell, *Director*
Greg Lovato, *Administrator*

20 de diciembre 2019

Estimado residente:

Le hago llegar esta carta porque usted vive cerca del área que está siendo actualmente investigada por la División de Protección Ambiental de Nevada (Nevada Division of Environmental Protection) o NDEP (por sus siglas en inglés). Usted no está bajo ningún riesgo, pero me interesa informarle de las labores que se están llevando a cabo y responder cualquier pregunta que usted pudiera tener. La limpieza del medio ambiente es parte de la misión del NDEP para preservar y mejorar el medio ambiente del estado con el fin de proteger la salud pública, mantener ecosistemas saludables, y contribuir a una economía vibrante.

Nosotros estamos investigando de qué manera ciertos contaminantes de la propiedad que pertenecía previamente a Tronox y Kerr-McGee han afectado el Canal de Las Vegas (Las Vegas Wash), y el suelo y agua a su alrededor. NERT son las siglas de Nevada Environmental Response Trust (Fidecomiso de Respuesta Ambiental de Nevada). El NERT es el actual dueño de la propiedad que previamente le pertenecía a Tronox y Kerr-McGee y está actualmente responsable por la investigación.

La investigación cubre las siguientes tres áreas principales:

- El Sitio NERT
- Partes no incorporadas del Condado de Clark
- Terrenos en Henderson entre el Sitio NERT y el Canal de Las Vegas

Hay un mapa de estas áreas al final de este paquete.

El contaminante de mayor interés es el perclorato, el cual fue anteriormente producido en el Sitio NERT antes de 1998. El perclorato es comúnmente usado para producir combustible de cohetes, misiles, llamaradas y explosivos. Otro contaminante de interés es el cromo hexavalente, que también fue usado en el pasado en el Sitio NERT.

He incluido una Hoja de Datos (Fact Sheet) que describe el Sitio NERT y nuestro plan de limpieza. Actualizamos y distribuimos estos datos anualmente para mantener al público actualizado sobre el estado de limpieza.

También quiero agradecerle personalmente si usted completó nuestros cuestionarios pasados o si asistió a una de nuestras reuniones comunitarias con respecto al Sitio NERT. Mis colegas y yo agradecemos sus contribuciones, preguntas e inquietudes. Anticipamos programar nuestra próxima reunión comunitaria a finales del 2020 y enviaremos una carta en ese momento con detalles adicionales.

Si tiene preguntas acerca de nuestra investigación o alguna pregunta que no fue respondida en este paquete, por favor contácteme al 702-486-2850 x 235 o a jdotchin@ndep.nv.gov. Si tiene alguna preocupación acerca de su salud, le recomiendo que consulte a su profesional de salud.

Atentamente,

James (JD) Dotchin
Chief Environmental Programs

Bureau of Industrial Site Clean-up
Nevada Division of Environmental Protection

Averigüe más acerca del sitio

Vea los documentos oficiales en nuestra oficina:

NDEP Las Vegas Office
2030 E. Flamingo Rd. Suite 230
Las Vegas, NV 89119

Comuníquese con Christa Smaling al 702-486-2850 x 254 o por correo electrónico a csmaling@ndep.nv.gov para programar una revisión de los documentos. Favor de notificarnos con un día de anticipación si desea revisar los documentos en nuestra oficina.

Lea los datos por internet:

- www.NERT-Trust.com
- <https://ndep.nv.gov/environmental-cleanup/site-cleanup-program/active-cleanup-sites/bmi-complex/nevada-environmental-response-trust-nertr>

Para información acerca de otros sitios de limpieza dentro del Complejo Industrial Black Mountain (Black Mountain Industrial complex):

- <http://ndep.nv.gov/environmental-cleanup/site-cleanup-program/active-cleanup-sites/bmi-complex>

Hay computadoras disponibles sin costo alguno para uso público dentro de todas las bibliotecas de Henderson:

- James I. Gibson Library — 100 W. Lake Mead Parkway
- Paseo Verde Library — 280 S. Green Valley Parkway
- Green Valley Library — 2797 N. Green Valley Parkway
- Heritage Park Senior Center Library — 300 S. Racetrack Road

Hoja de Datos del Sitio de Nevada Environmental Response Trust Diciembre 2019

HENDERSON, NEVADA

El Proceso de Remediación en el Sitio de Nevada Environmental Response Trust (NERT)

— La División de Protección Ambiental de Nevada (NDEP, por sus siglas en inglés) y la Agencia de Protección Ambiental de Estados Unidos (EPA, por sus siglas en inglés) gestionan la remediación e investigación del Sitio de Nevada Environmental Response Trust o Fidecomiso de Respuesta Ambiental de Nevada (NERT). El Sitio NERT es parte del Complejo Industrial Black Mountain en Henderson, Nevada. El NERT fue establecido en el año 2011 como parte del acuerdo de bancarrota de Tronox Inc. Actualmente, el NERT es el dueño del sitio y maneja todas las labores de limpieza de contaminación causada por operaciones que ocurrieron antes del 2011. El NERT es responsable solamente de las actividades de limpieza e investigación asociadas con el sitio NERT. Esto es consistente con los detalles de la bancarrota de Tronox. El NDEP también supervisa la limpieza ambiental de propiedades cercanas dentro del Complejo Industrial Black Mountain, pero estas actividades están fuera del alcance de esta hoja informativa.

Datos Rápidos:

- El agua subterránea no es una fuente de agua potable en Henderson.
- Desde 1987, los funcionarios han limpiado gran parte de la contaminación en el Sitio NERT.
- El NERT recolectó casi 2,000 muestras en 2019 para ayudar a informar los esfuerzos de limpieza final.

Remediación en el Sitio NERT sigue las reglas ambientales de la EPA. Estos requisitos forman parte de la Ley Integral de Respuesta, Compensación y Responsabilidad Ambiental (CERCLA, por sus siglas en inglés), la cual está diseñada para identificar, investigar, y remediar sitios para proteger al público y el medio ambiente. El proceso de limpieza de CERCLA está mostrado en la figura a la derecha y es resumido posteriormente.

Perspectiva General — Las operaciones históricas en el Sitio NERT contaminaron el suelo y las aguas subterráneas con dos químicos primarios. Las aguas subterráneas no son una fuente de agua potable en Henderson. El perclorato es el contaminante principal y fue históricamente producido en este sitio. El perclorato es comúnmente usado para la producción de combustible de cohetes y para misiles, juegos pirotécnicos y explosivos. El cromo hexavalente es otro químico que fue usado en el Sitio, y es otro contaminante de interés. Parte de esta contaminación migro fuera del sitio en dirección hacia el norte hasta el Canal de Las Vegas (Las Vegas Wash).

El NERT está investigando esta contaminación en un área de estudio establecida, llamada el Área de Estudio de la Investigación de Remediación de NERT (NERT Remedial Investigation [RI] Study Area). Esta área de estudio incluye el Sitio NERT y las áreas al norte y noreste del Sitio NERT (ver el mapa adjunto a este paquete).

Proceso de Limpieza de CERCLA



NERT tiene los siguientes tres objetivos principales:

1. Evitar que contaminación adicional salga del Sitio NERT.
2. Hacerse cargo de la contaminación en el Sitio NERT.
3. Hacerse cargo de la contaminación que ha migrado fuera del sitio.

1 Descubrimiento de la Contaminación/ Investigación Inicial

Las operaciones pasadas en el Sitio NERT impactaron el suelo y las aguas subterráneas debajo del Sitio NERT. Aguas residuales de las operaciones históricas también migraron hacia el noreste del Sitio NERT por medio de zanjas (no recubiertas) y fueron descargadas en estanques de disposición (no recubiertos). Desde ese entonces, el Sitio NERT y sus áreas aledañas han sido parte de muchas investigaciones ambientales:

- **A finales de los años 1970:** La EPA, la NDEP, y el condado de Clark examinaron como la totalidad de las operaciones de la Industria Black Mountain (no limitado a lo que NERT está investigando actualmente) pudieron haber afectado al medio ambiente.
- **A comienzos de los años 1980:** Funcionarios descubrieron aguas subterráneas contaminadas con cromo hexavalente de bajo del Sitio NERT.
- **1997:** Funcionarios descubrieron agua subterránea contaminado con perclorato cerca del Canal de Las Vegas.

2 Acciones de Remoción — Las tecnologías de limpieza del NERT ya han bajado significativamente la contaminación dentro y alrededor del Sitio NERT (*consulte la página siguiente*).

Estas primeras acciones de limpieza no son el remedio final, pero sí redujeron en gran medida los riesgos en el sitio NERT y sus alrededores:

- Desde 1987, **más de 25 toneladas de cromo hexavalente se han eliminado del medio ambiente.**
- **Alrededor de 5,700 toneladas de perclorato se han eliminado** a través de un tratamiento activo desde 1999, lo cual ha reducido significativamente la cantidad de contaminación que migra al Canal de Las Vegas.
- De 2010 a 2019 **los funcionarios eliminaron aproximadamente 585,100 yardas cúbicas de suelo contaminado** del Sitio NERT.

Como resultado, no hay riesgos inmediatos de salud pública o al medio ambiente cerca del Sitio NERT. Esto también aplica para el caso de la urbanización Cadence, la cual la NDEP declaró como segura para desarrollo en el 2015. Las acciones de NERT no están conectadas o de ninguna manera afectan el estado del desarrollo de Cadence.

3 Investigación de Remediación – Informes de Investigación de Remediación pendientes: uno a mediados de 2020 y un segundo a mediados de 2021

A finales del año 2014, el NERT inició un amplio estudio ambiental y lo llamó Investigación de Remediación (Remedial Investigation). Esta investigación se basa en estudios previos y le ayudará al NERT entender el alcance de la contaminación en toda el área de estudio como se muestra en el mapa adjunto. El NERT ha estado instalando pozos de monitoreo de agua subterránea y recolectando muestras de suelo, gas del suelo, de agua subterránea y de aguas superficiales. Desde el año pasado, NERT ha recolectado:

- 400 muestras de suelo
- 1,475 muestras de agua subterránea y superficial
- 68 muestras de gas del suelo

Como parte de la investigación, NERT ha identificado áreas que necesitan más muestreo para ayudar a definir el alcance de la contaminación, y tales esfuerzos están actualmente en progreso. Ningunos de estos esfuerzos se han llevado o se llevarán a cabo en propiedades privadas, y los funcionarios tendrán cuidado de no molestar a los residentes en los vecindarios aledaños. Cuando la investigación termine, toda la información será publicada en dos informes de Investigación de Remediación.

4 Evaluación de Riesgos – Informes de Evaluación de Riesgos pendientes: a fines de 2020 y a fines de 2021

Las evaluaciones de salud humana y de riesgos ecológicos ayudan a los funcionarios a medir los riesgos al público y al medio ambiente. El NERT está preparando evaluaciones de riesgos usando datos de la Investigación de Remediación para encontrar la mejor solución de limpieza. Las evaluaciones de riesgos serán realizadas inmediatamente después de que los informes de la Investigación de Remediación sean completados.

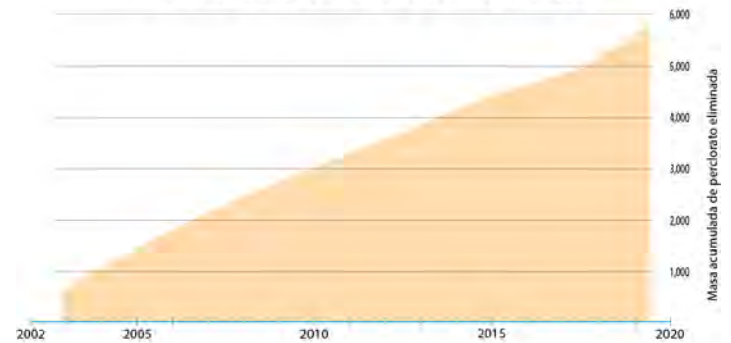
¿Dónde puedo encontrar más información acerca del Sitio NERT?

Un resumen de información importante y documentos de logros alcanzados se encuentran en www.NERT-Trust.com y <http://ndep.nv.gov/environmental-cleanup/site-cleanup-program/active-cleanup-sites/bmi-complex/nevada-environmental-response-trust-nerf>.

Si tiene preguntas adicionales, por favor contacte al Coordinador de Participación Comunitaria (Community Involvement Coordinator) del NDEP:

James (JD) Dotchin
Chief of Environmental Programs
Bureau of Industrial Site Cleanup
Nevada Division of Environmental Protection
2030 E. Flamingo Road, Suite 230
Las Vegas, NV 89119
(702) 486-2850 x235 jdotchin@ndep.nv.gov

Perclorato total eliminado por el sistema de tratamiento del sitio con el tiempo



5 Estudio de Viabilidad – Informes de Estudio de Viabilidad pendientes: ambos a fines de 2022

Un Estudio de Viabilidad (Feasibility Study) ayudará al NERT a encontrar las mejores herramientas y tecnologías para manejar la contaminación del suelo y aguas subterráneas. El estudio ayudará a los funcionarios a proponer un remedio final para el Sitio NERT. Varios estudios ya se encuentran en marcha para evaluar diferentes opciones de limpieza. Como en el caso de los informes de la Investigación de Remediación, dos informes de estudio de viabilidad serán preparados para el área de estudio del Sitio NERT.

6 Selección de Propuestas de Remediación y Registro de Decisiones – Registros de Decisión pendientes: ambos a fines de 2023

Después del estudio de viabilidad, NERT generará informes que expliquen la propuesta de remediación. El público podrá revisar estos informes y proveer comentarios. Después de revisar y responder a los comentarios del público, los funcionarios aprobarán los documentos que describen el remedio final. Los funcionarios llaman estos documentos los Registros de Decisiones (Records of Decision) o ROD (por sus siglas en inglés). Se espera que el remedio final consistirá de una combinación de tecnologías, sistemas de monitoreo, y acciones administrativas (por ejemplo, restricciones de título). Se prepararán dos RODs para el área de estudio del Sitio NERT.

7 Diseño de Remediación e Implementación de las Acciones de Remediación – Comienzo del diseño y la construcción:

después de la emisión de ROD

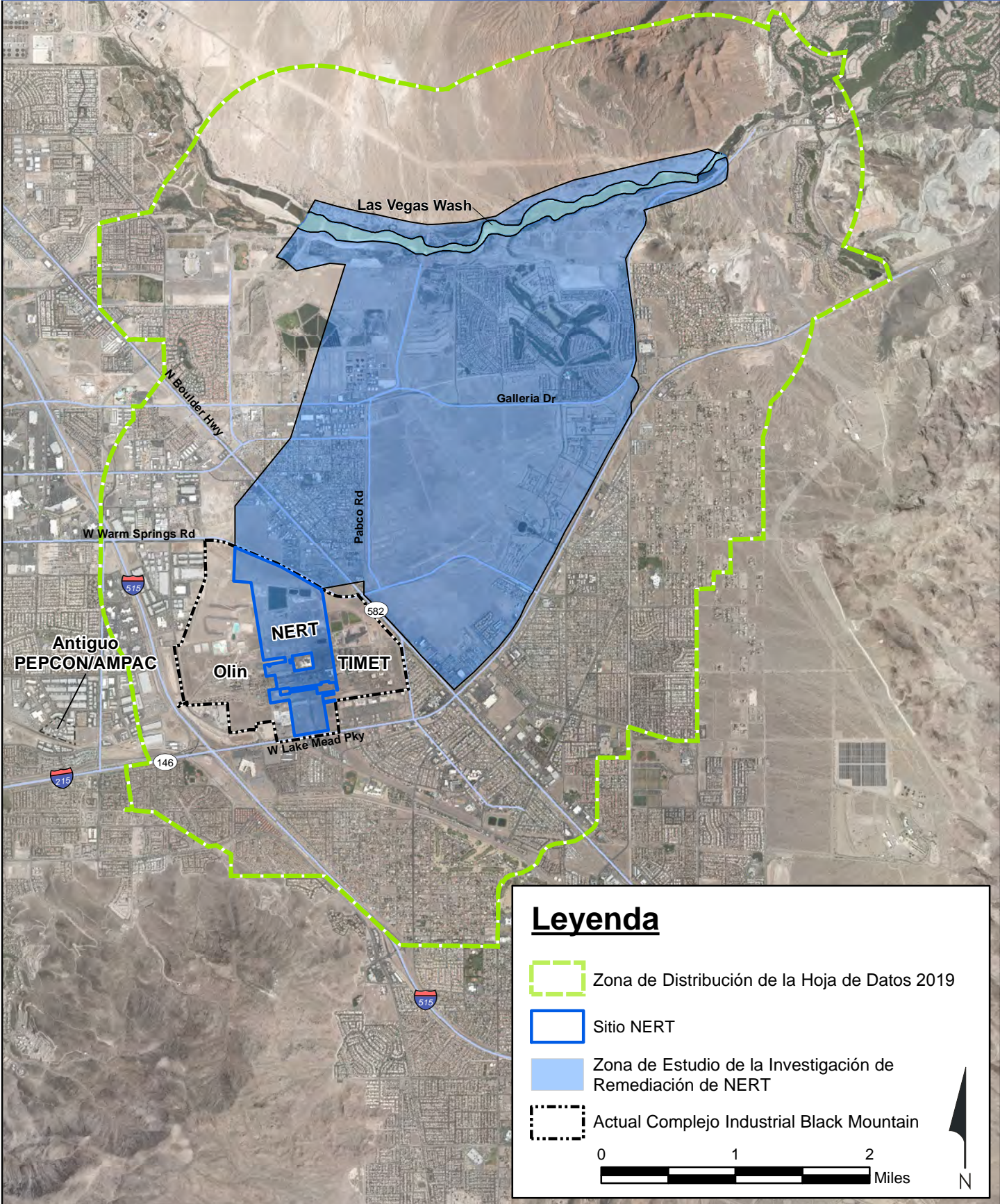
Después de que los funcionarios emitan los RODs, el NERT implementará el remedio final aprobado. Dependiendo del remedio que sea seleccionado, el NERT llevará esto a cabo por medio de labores de ingeniería, diseño, construcción, y acciones administrativas. Los esfuerzos de diseño y construcción comenzarán después de la emisión de los RODs.

¿Dónde puedo encontrar más información acerca de otras investigaciones dentro del Complejo Industrial Black Mountain?

La NDEP está supervisando programas de remediación adicionales en otras partes del área de estudio del Sitio NERT y otras áreas de Henderson. Estos programas están siendo implementados por Basic Remediation Company, Titanium Metals Corporation, Pioneer Americas, LLC d/b/a Olin Chlor Alkali Products, Stauffer, Montrose, y Endeavour, LLC (PEPCON/AMPAC).

Información de antecedentes y documentos clave están disponibles en la página web de NDEP en <http://ndep.nv.gov/environmental-cleanup/site-cleanup-program/active-cleanup-sites/bmi-complex>.

Fidecomiso de Respuesta Ambiental de Nevada (NERT) Zona de Estudio de la Investigación de Remediación Zona de Distribución de Hoja de Datos 2019



Community Involvement Plan, Revision 4
Nevada Environmental Response Trust Site
Henderson, Nevada

ATTACHMENT E-12
JANUARY 2021 COMMUNITY INFORMATION
DOCUMENTS PROVIDED IN MAILING



NEVADA DIVISION OF
**ENVIRONMENTAL
PROTECTION**

STATE OF NEVADA
Department of Conservation & Natural Resources

Steve Sisolak, *Governor*
Bradley Crowell, *Director*
Greg Lovato, *Administrator*

January 26, 2021

① Una versión en español de este documento también está disponible en el sitio web www.NERT-Trust.com o al contactar a James Dotchin (JD) por teléfono (702-668-3914) o por correo electrónico (jdotchin@ndep.nv.gov).

Dear Resident:

I am writing to you because you live near an area being investigated by the Nevada Division of Environmental Protection (NDEP). You are not at risk, but I want to inform you about our ongoing work and respond to concerns you may have. Cleanup of the environment is part of NDEP's mission to preserve and enhance the environment of the State in order to protect public health, sustain healthy ecosystems, and contribute to a vibrant economy.

We are investigating how pollutants from property formerly owned by Tronox and Kerr-McGee have affected the Las Vegas Wash and nearby soil and water. NERT – short for the Nevada Environmental Response Trust – now owns the former Tronox/Kerr-McGee property (NERT Site) and is responsible for the investigation.

NDEP has communicated ongoing work at the NERT Site and surrounding areas in fact sheets since 2007. Since 2011, NDEP has updated the fact sheets each year and mailed them to the public. Attached is Fact Sheet #10, which provides an overview of 2020 activities at the NERT Site and NDEP's progress towards cleaning up contamination related to the NERT Site. Fact sheets from years prior to 2020 contain additional background on the NERT Site and may be viewed at www.NERT-Trust.com.

The investigation covers three main areas:

- The NERT Site.
- Unincorporated parts of Clark County.
- Land in Henderson between the NERT Site and the Las Vegas Wash.

See the back of this packet for a map of these areas.

The main chemical we are concerned about is perchlorate, which was made at the NERT Site before 1998. Perchlorate is used to produce rocket fuel, missiles, fireworks, flares, and explosives. Another chemical of concern is hexavalent chromium, which was also used on the NERT Site before 1998.

I also want to personally thank you if you completed our past questionnaires or attended one of our prior public meetings concerning the NERT Site. My colleagues and I appreciate your input, questions, and concerns. We anticipate scheduling our next community meeting upon NDEP's approval of the report that documents the results of the investigation at the NERT Site and areas immediately north and east of the NERT Site. We will send a letter at that time with additional details.

If you have any questions about our investigation or questions not answered in this packet, please contact me at (702) 668-3914 or jdotchin@ndep.nv.gov. For concerns related to your health, I encourage you to see your health care professional.

Sincerely,

James (JD) Dotchin
Chief Environmental Programs
Bureau of Industrial Site Cleanup
Nevada Division of Environmental Protection

Learn more about the NERT Site

View official files at our office:

NDEP Las Vegas Office
375 E. Warm Springs Road, Suite 200
Las Vegas, NV 89119

Contact Christa Smaling at 702-668-3931 or csmaling@ndep.nv.gov to schedule a file review. Please tell us a day in advance if you want to review files at our office.

Read about our efforts online:

www.NERT-Trust.com

<https://ndep.nv.gov/environmental-cleanup/black-mountain-industrial-bmi-complex/nevada-environmental-response-trust-nert>

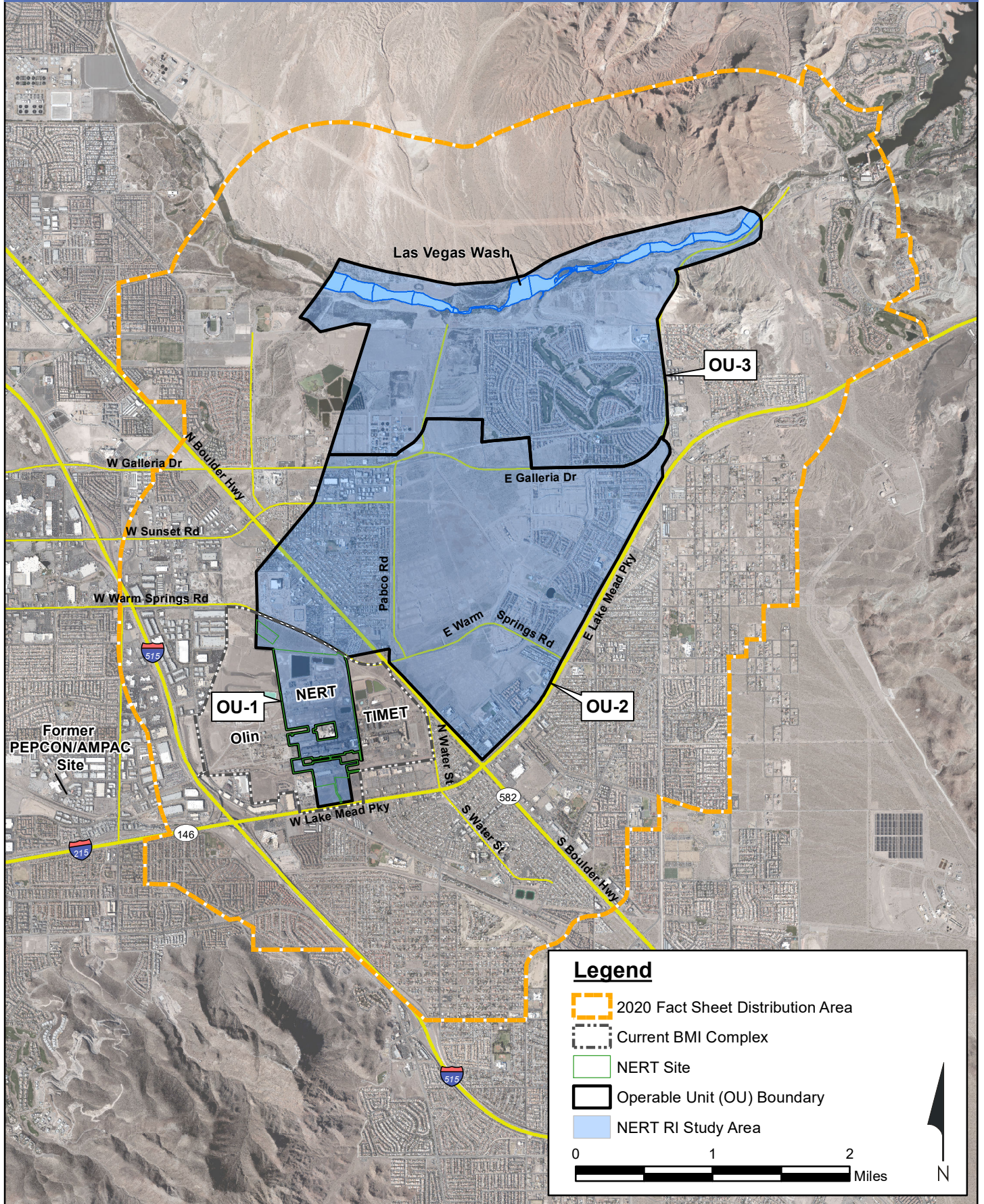
For info about other, unrelated cleanups within the Black Mountain Industrial (BMI) complex:

<https://ndep.nv.gov/environmental-cleanup/black-mountain-industrial-bmi-complex>

Computers are available, free of charge, for public use at all Henderson libraries:

- James I. Gibson Library — 100 W. Lake Mead Parkway
- Paseo Verde Library — 280 S. Green Valley Parkway
- Green Valley Library — 2797 N. Green Valley Parkway
- Heritage Park Senior Center Library — 300 S. Racetrack Road

Nevada Environmental Response Trust (NERT) Remedial Investigation (RI) Study Area 2020 Fact Sheet Distribution Area



Fact Sheet #10

Nevada Environmental Response Trust Site

December 2020

HENDERSON, NEVADA

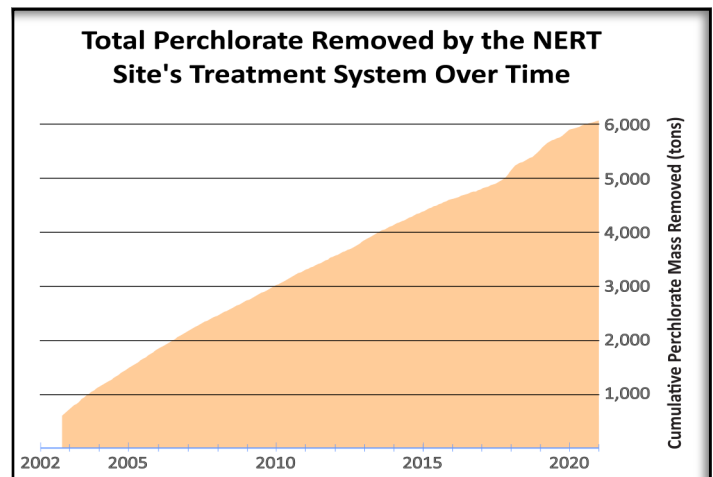
Una versión en español de este documento también está disponible en el sitio web www.NERT-Trust.com o al contactar a James Dotchin (JD) por teléfono (702-668-3914) o por correo electrónico (jdotchin@ndep.nv.gov).

Overview — The Nevada Division of Environmental Protection (NDEP) and the United States Environmental Protection Agency (USEPA) oversee all cleanup activities at the Nevada Environmental Response Trust (NERT) Site. The NERT Site is part of the Black Mountain Industrial (BMI) Complex in Henderson, Nevada. The NERT, also called the Trust, was created in 2011 as part of Tronox Inc.'s bankruptcy and the NERT Site was conveyed to the Trust at that time. The Trust does not conduct any business at the NERT Site; its sole purpose is to address contamination from historic operations at the NERT Site that occurred prior to the Trust's formation. Environmental cleanup at nearby properties in the BMI Complex are also overseen by NDEP, but these are not the responsibility of NERT and therefore not discussed in this fact sheet.

Key Facts:

- Groundwater is not a source of drinking water in the City of Henderson.
- NDEP has been sharing its progress on the cleanup with the community since 2007; this fact sheet gives the community an update on activities performed in 2020.
- The cleanup of groundwater contaminated by former operations at the NERT Site began in 1987 and continues today. Additional investigations are still being performed.
- Since operation of a treatment system began at the NERT Site, the amount of perchlorate contamination from the NERT Site that has entered the Las Vegas Wash has been reduced by more than 90%.
- 2020 also marked the 21st year of near-continuous operation of that treatment system. Approximately 330,000 pounds of perchlorate were removed from the environment in the last year; since treatment began, the total amount of perchlorate removed is approximately 12.13 million pounds.
- Various groundwater treatment options are currently being tested to determine the best long-term solutions; the results, along with NDEP's selected final remedy, will be available to the public for review during the public comment period.

Cleanup at the NERT Site — Historical operations at the NERT Site contaminated the soil and underlying groundwater with four primary chemicals. Perchlorate and chlorate – the most widespread of the four – were historically manufactured at the NERT Site. These chemicals are often used to produce rocket fuel, missiles, fireworks, flares, and explosives. Two additional chemicals – hexavalent chromium and chloroform – have been detected in lesser quantities at the NERT Site. Since industrial operations began at the NERT Site in the 1940s, some of this contamination moved in the groundwater, going as far north as the Las Vegas Wash. The Trust continues to operate a groundwater capture and treatment system which has reduced contamination to the Las Vegas Wash from the NERT Site by more than 90%.



NERT is investigating the contamination in an established area called the NERT Remedial Investigation Study Area (Study Area). This Study Area includes the NERT Site and areas to the north, east, and northeast of the NERT Site. The Study Area is divided into three areas termed "operable units" or OUs. Each of the three OUs has its own set of cleanup goals, with the ultimate goal being to mitigate or minimize the movement of contaminated groundwater from the NERT Site to the Las Vegas Wash to be protective of Lake Mead, the Colorado River, and all downstream interests.



Installation of monitoring wells near the Las Vegas Wash, April 2020

Progress Towards Meeting Clean-up Goals — Cleanup at the NERT Site follows the environmental rules of the USEPA and the State of Nevada. NERT is progressing through the cleanup process using the requirements of the Comprehensive Environmental Response, Compensation, and Liability Act, commonly known as CERCLA or Superfund. It is designed to identify, investigate, and clean up sites to protect the public and the environment. In order to meet cleanup goals, the contamination in all three of NERT's OUs first needs to be defined through an investigation; then, engineering evaluations of cleanup options will be completed. Final cleanup efforts can only be determined after all investigations and engineering evaluations are completed.

NERT achieved two important milestones in 2020:

1 Completion of the soil and groundwater investigation in OU-1 and OU-2. Through this six-year program, more than 45,000 analyses were performed on over 6,000 samples, ensuring NERT has a complete understanding of the environmental conditions. NERT's investigation of OU-3 is approximately 85% complete and is expected to be completed by August 2021.

2 Began an environmental study to evaluate in-situ (i.e. in the ground) treatment of perchlorate in an area adjacent to the Las Vegas Wash. This critical study will provide invaluable information on how to remove as much perchlorate in groundwater as possible before it reaches the Las Vegas Wash.

Investigation Findings — The investigation of the Study Area focuses on contamination in groundwater that has moved from the NERT Site toward and into the Las Vegas Wash. A report detailing the findings of the OU-1 and OU-2 investigation will be completed in early 2021. That report will be called the Remedial Investigation Report for OU-1 and OU-2. The primary purpose

of this report is to define the nature (i.e. what chemicals) and extent (i.e. where the chemicals are) of the contamination from the NERT Site within the boundaries of OU-1 and OU-2. The NERT has accomplished this objective, and also confirmed that the existing groundwater treatment system captures virtually all of the contamination currently moving away from OU-1 toward the Las Vegas Wash. However, groundwater contamination present in the eastern portions of OU-2 and OU-3 continues to flow towards the Las Vegas Wash and will be addressed in the future as part of the final cleanup plan.

Planned Activities for 2021

- Submit the Remedial Investigation Report for OU-1 & OU-2
- Complete the OU-3 investigation
- Continue operating the groundwater treatment system
- Continue testing and evaluating treatment technologies
- Perform an evaluation of risks to human health and ecological receptors (such as birds, mammals, and plants) for all three OUs



Ecological sampling in the Las Vegas Wash, June 2020

Where can I find more information about the NERT Site?

A summary of important information and milestone documents can be found at www.NERT-Trust.com and <http://ndep.nv.gov/environmental-cleanup/site-cleanup-program/active-cleanup-sites/bmi-complex/nevada-environmental-response-trust-nert>.

If you have questions, please contact the Community Involvement Coordinator at NDEP:

James (JD) Dotchin
Chief Environmental Programs
Bureau of Industrial Site Cleanup
Nevada Division of Environmental Protection
375 E. Warm Springs Road, Suite 200
Las Vegas, NV 89119
702-668-3914
jdotchin@ndep.nv.gov

Where can I find more information about other investigations in the Black Mountain Industrial (BMI) Complex?

NDEP is overseeing additional cleanup programs in other parts of the NERT Study Area, as well as other areas of Henderson. Some of these programs are being implemented by the Basic Remediation Company; TIMET; Olin Chlor Alkali Products (Olin), Stauffer & Montrose; and Endeavour, LLC (PEPCON/AMPAC).

Background information and key documents are available on NDEP's website at <https://ndep.nv.gov/environmental-cleanup/black-mountain-industrial-bmi-complex/>.

Where can I find more information about my drinking water?

Drinking water provided by the City of Henderson (and throughout the Las Vegas area) is safe to drink. Water supplied to the City of Henderson comes from Lake Mead via the Colorado River. You can learn more about the quality of your water in the City of Henderson 2020 Water Quality Report: <https://www.cityofhenderson.com/home/showpublisheddocument?id=2654>

26 de enero 2021

Estimado residente:

Le hago llegar esta carta porque usted vive cerca del área que está siendo actualmente investigada por la División de Protección Ambiental de Nevada (Nevada Division of Environmental Protection) o NDEP (por sus siglas en inglés). Usted no está bajo ningún riesgo, pero me interesa informarle de las labores que se están llevando a cabo y responder cualquier pregunta que usted pudiera tener. La limpieza del medio ambiente es parte de la misión del NDEP para preservar y mejorar el medio ambiente del estado con el fin de proteger la salud pública, mantener ecosistemas saludables, y contribuir a una economía vibrante.

Nosotros estamos investigando de qué manera ciertos contaminantes de la propiedad que pertenecía previamente a Tronox y Kerr-McGee han afectado el Canal Las Vegas (Las Vegas Wash), y el suelo y agua a su alrededor. NERT son las siglas de Nevada Environmental Response Trust (Fidecomiso de Respuesta Ambiental de Nevada). El NERT es el actual dueño de la propiedad que previamente le pertenecía a Tronox y Kerr-McGee y está actualmente responsable por la investigación.

La NDEP ha comunicado constantemente el trabajo en proceso en el sitio de NERT y zonas aledañas por medio de Fichas Informativas desde el año 2007. Desde el 2011, la NDEP ha actualizado las Fichas Informativas cada año y las ha enviado por medio de correo al público. Adjunta se encuentra Ficha Informativa #10, la cual provee un resumen de las actividades que ocurrieron en el sitio NERT en el año 2020 y del progreso de NDEP con respecto a la limpieza de contaminación relacionada al sitio NERT. Las Fichas Informativas de los años anteriores al año 2020 aun contienen información de antecedentes del sitio NERT y se encuentran en el sitio web www.NERT-Trust.com.

La investigación cubre las siguientes tres áreas principales:

- El Sitio NERT
- Partes no incorporadas del Condado de Clark
- Terrenos en Henderson entre el Sitio NERT y el Canal Las Vegas

Hay un mapa de estas áreas al final de este paquete.

El contaminante de mayor interés es el perclorato, el cual fue anteriormente producido en el Sitio NERT antes de 1998. El perclorato es comúnmente usado para producir combustible de cohetes, misiles, llamaradas y explosivos. Otro contaminante de interés es el cromo hexavalente, que también fue usado en el Sitio NERT antes de 1998.

También quiero agradecerle personalmente si usted completó nuestros cuestionarios pasados o si asistió a una de nuestras anteriores reuniones comunitarias con respecto al Sitio NERT. Mis colegas y yo agradecemos sus contribuciones, preguntas e inquietudes. Anticipamos agendar nuestra siguiente reunión comunitaria cuando NDEP apruebe el reporte de los resultados de la investigación del sitio NERT y de las zonas directamente al norte y este del sitio NERT. Una vez aprobado, se enviará una carta con detalles adicionales.

Si tiene preguntas acerca de nuestra investigación o alguna pregunta que no fue respondida en este paquete, por favor contácteme al **702-668-3914** o a jdotchin@ndep.nv.gov. Si tiene alguna preocupación acerca de su salud, le recomiendo que consulte a su profesional de salud.

Atentamente,

James (JD) Dotchin
Chief Environmental Programs
Bureau of Industrial Site Clean-up
Nevada Division of Environmental Protection

Averigüe más acerca del sitio NERT

Vea los documentos oficiales en nuestra oficina:

NDEP Las Vegas Office
375 E. Warm Springs Road, Suite 200
Las Vegas, NV 89119

Comuníquese con Christa Smaling al 702-668-3931 o por correo electrónico a csmaling@ndep.nv.gov para programar una revisión de los documentos. Favor de notificarnos con un día de anticipación si desea revisar los documentos en nuestra oficina.

Lea los datos por internet:

www.NERT-Trust.com

<https://ndep.nv.gov/environmental-cleanup/black-mountain-industrial-bmi-complex/nevada-environmental-response-trust-nert>

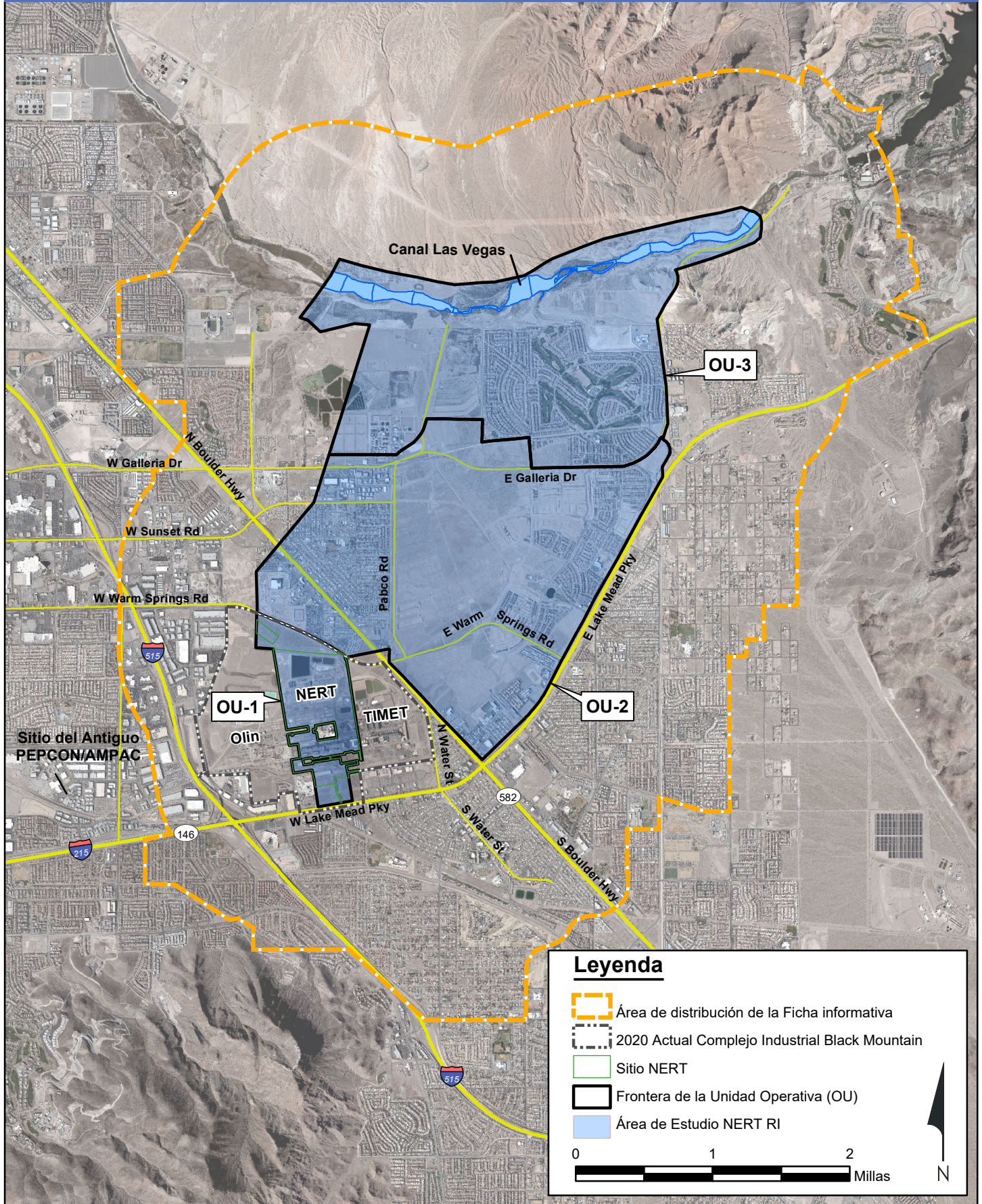
Para información acerca de otros sitios de limpieza dentro del Complejo Industrial Black Mountain (Black Mountain Industrial complex):

<https://ndep.nv.gov/environmental-cleanup/black-mountain-industrial-bmi-complex>






Hay computadoras disponibles sin costo alguno para uso público dentro de todas las bibliotecas de Henderson:

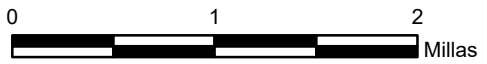
- James I. Gibson Library — 100 W. Lake Mead Parkway
- Paseo Verde Library — 280 S. Green Valley Parkway
- Green Valley Library — 2797 N. Green Valley Parkway
- Heritage Park Senior Center Library — 300 S. Racetrack Road

Fideicomiso de Respuesta Ambiental de Nevada (NERT) Área de Estudio de la Investigación de Remediación (RI) Área de Distribución de la Ficha Informativa 2020



Leyenda

-  Área de distribución de la Ficha informativa
-  2020 Actual Complejo Industrial Black Mountain
-  Sitio NERT
-  Frontera de la Unidad Operativa (OU)
-  Área de Estudio NERT RI



Ficha Informativa #10

Nevada Environmental Response Trust Site

Diciembre 2020

HENDERSON, NEVADA

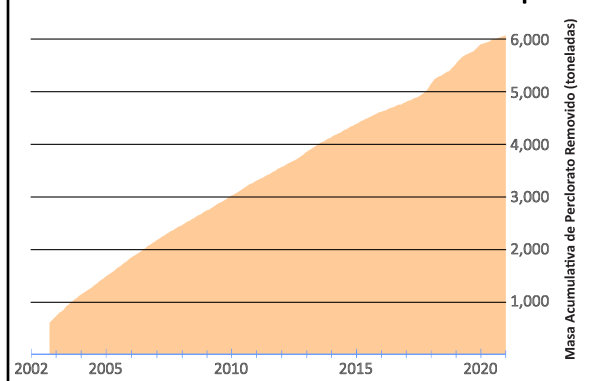
Resumen — La División de Protección Ambiental de Nevada (NDEP, por sus siglas en inglés) y la Agencia de Protección Ambiental de Estados Unidos (USEPA, por sus siglas en inglés) supervisan todas las actividades de limpieza en el Sitio del Fideicomiso De Respuesta Ambiental de Nevada (NERT, por sus siglas en inglés). El Sitio NERT es parte del Complejo Industrial Montaña Negra (BMI, por sus siglas en inglés) en Henderson, Nevada. El NERT, también conocido como el Fideicomiso, fue creado en 2011 como parte del acuerdo de bancarrota de Tronox Inc y el sitio NERT fue transferido al Fideicomiso en ese tiempo. El Fideicomiso no conduce ningún tipo de negocio en el Sitio NERT; su único propósito es la limpieza de la contaminación causada por procesos que ocurrieron antes de la creación del Fideicomiso. Aunque la limpieza ambiental de las propiedades aledañas dentro del Complejo BMI también es supervisada por la NDEP, no es responsabilidad de NERT y por lo tanto no será discutida en esta ficha informativa.

Hechos Clave:

- El agua subterránea no es suministro de agua potable de la ciudad de Henderson.
- La NDEP ha compartido su progreso en la limpieza con la comunidad desde el 2007; esta ficha informativa actualiza a la comunidad sobre las actividades realizadas en el año 2020.
- La limpieza del agua subterránea contaminada por operaciones previas en el sitio NERT comenzó en 1987 y continúa actualmente. Investigaciones adicionales aún se están realizando.
- Desde el inicio de la operación del sistema de tratamiento del sitio NERT, la cantidad de contaminación de perclorato proveniente del Sitio NERT que llega al Canal Las Vegas (Las Vegas Wash) ha sido reducida por más del 90%.
- El año 2020 ha marcado el 21un año de casi-continua operación de ese sistema de tratamiento. Aproximadamente 330,000 libras de perclorato fueron removidas del medio ambiente el año pasado; desde que el tratamiento comenzó, la cantidad total de perclorato removido es aproximadamente 12.13 millones de libras.
- Actualmente varios tratamientos de aguas subterráneas están siendo evaluados para determinar las mejores soluciones a largo plazo; los resultados, junto con el método de remediación final seleccionado por NDEP, estarán disponibles al público para su revisión durante el periodo de comentario público.

Limpieza en el Sitio NERT — Operaciones históricas en el Sitio NERT contaminaron el suelo y las aguas subterráneas con cuatro químicos primarios. El Perclorato y clorato – que son los más abundantes de los cuatro – fueron históricamente manufacturados en el Sitio NERT. Estos químicos son comúnmente utilizados para producir combustible para misiles, fuegos artificiales, llamaradas, y explosivos. Dos químicos adicionales – cromo hexavalente y cloroformo – han sido detectados en menores cantidades en el Sitio NERT. Desde que las operaciones industriales comenzaron en el Sitio NERT en los años de 1940, parte de esta contaminación ha migrado junto al agua subterránea, fluyendo al norte hasta el Canal Las Vegas. El Fideicomiso continúa operando un sistema de captura y tratamiento de agua subterránea el cual ha reducido la contaminación que fluye hacia el Canal Las Vegas desde el Sitio NERT por más de un 90%.

Perclorato Total Removido por el Sistema de Tratamiento del Sitio NERT a Través del Tiempo



NERT está investigando la contaminación dentro de un área establecida llamada Área de Estudio de la Investigación de Remediación NERT (Área de Estudio). Esta Área de Estudio incluye el Sitio NERT y áreas aledañas al norte, este, y noreste del Sitio NERT. El Área de Estudio está dividida en tres áreas categorizadas como “Unidades Operativas” u “OUs” (por sus siglas en inglés). Cada una de estas tres OUs tiene sus propias metas de limpieza por alcanzar, teniendo como meta final mitigar o minimizar el movimiento de aguas subterráneas contaminadas desde el Sitio NERT hasta el Canal Las Vegas para proteger el Lago Mead, el Río Colorado, y a todo interés que se encuentre río abajo.



Instalación de pozos de monitoreo cerca del Canal Las Vegas, abril 2020

Progreso Hacia Cumplir las Metas de Limpieza — La limpieza del Sitio NERT sigue las reglas de la USEPA y del Estado de Nevada. Se ha avanzado con el proceso de limpieza del Sitio NERT utilizando los requisitos de la Ley de Responsabilidad, Compensación y Recuperación Ambiental mejor conocida como CERCLA (por sus siglas en inglés) o Superfondo. Está diseñada para identificar, investigar y limpiar sitios para proteger al público y al medio ambiente. Para poder cumplir con los objetivos de limpieza, la contaminación de las tres OUs debe ser definida a través de investigación; después, se completará una evaluación de ingeniería de las opciones de limpieza. Las labores de limpieza finales solo pueden ser determinadas después de que todas las evaluaciones de ingeniería e investigaciones hayan sido completadas.

NERT alcanzó dos metas importantes en el año 2020 :

1 Se completó la investigación de suelo y agua subterránea en OU-1 y OU-2. Por medio de este programa de 6 años, más de 45,000 análisis fueron realizados a más de 6,000 muestras, asegurando así que NERT tiene un entendimiento completo de las condiciones ambientales. La investigación de OU-3 por parte de NERT está aproximadamente 85% completa, y se prevé terminar para agosto del 2021.

2 Se inició un estudio ambiental para evaluar el tratamiento in-situ (ej. en el suelo) del perclorato en un área adyacente al Canal Las Vegas. Este estudio vital proveerá información invaluable sobre como remover la mayor cantidad posible de perclorato del agua subterránea antes de su llegada al Canal Las Vegas.

Resultados de la Investigación — La investigación del Área de Estudio se enfoca en la contaminación del agua subterránea que ha fluido desde el Sitio NERT hacia y dentro del Canal Las Vegas. Un reporte detallado de los resultados de la investigación OU-1 y OU-2 será completado en los primeros meses del año

2021. Ese reporte se llamará Reporte de Investigación Remedial Para OU-1 y OU-2. El propósito principal de este reporte es definir la contaminación del Sitio NERT dentro de OU-1 y OU-2. NERT ha cumplido este objetivo, y también ha confirmado que el actual sistema de tratamiento de aguas subterráneas captura prácticamente toda la contaminación que actualmente fluye de OU-1 hacia el Canal Las Vegas. Sin embargo, la contaminación presente en el agua subterránea dentro del este de las zonas OU-2 y OU-3 continúa fluyendo hacia el Canal Las Vegas, y será abordado en el futuro en la parte final del plan de limpieza.

Actividades Planeadas para 2021

- Someter el Reporte de Investigación Remedial para OU-1 & OU-2
- Completar la investigación de OU-3
- Continuar con la operación del sistema de tratamiento de agua subterránea
- Continuar con la prueba y evaluación de tecnologías de tratamiento
- Realizar una evaluación de riesgos a la salud humana y a receptores ecológicos (como aves, mamíferos, y plantas) para las tres OUs.



Muestreo Ecológico en el Canal Las Vegas, junio 2020

¿Dónde puedo encontrar más información sobre el Sitio NERT?

Un resumen de información importante y documentos clave pueden ser encontrados aquí: www.NERT-Trust.com y <http://ndep.nv.gov/environmental-cleanup/site-cleanup-program/active-cleanup-sites/bmi-complex/nevada-environmental-response-trust-nert>.

Si tiene alguna pregunta, por favor contacte al Coordinador de Participación Comunitaria de NDEP:

James (JD) Dotchin
Chief Environmental Programs
Bureau of Industrial Site Cleanup
Nevada Division of Environmental Protection
375 E. Warm Springs Road, Suite 200
Las Vegas, NV 89119
702-668-3914
jdotchin@ndep.nv.gov

¿Dónde puedo encontrar más información sobre otras investigaciones dentro del Complejo Industrial Montaña Negra (BMI)?

La NDEP está supervisando otros programas de limpieza localizados en otras partes del Área de Estudio NERT, así como en otras áreas de Henderson. Algunos de estos programas están siendo implementados por la La Compañía de Remediación Básica; TIMET; Productos Olin Chlor Alkali (Olin), Stauffer & Montrose; y Endeavour, SRL (PEPCON/AMPAC).

Información de antecedentes y documentos clave están disponibles en la página web de NDEP: <https://ndep.nv.gov/environmental-cleanup/black-mountain-industrial-bmi-complex/>.

¿Dónde puedo encontrar información sobre mi agua potable?

El agua potable suministrada por la ciudad de Henderson (y por toda la región de Las Vegas) es segura para beber. El agua suministrada por la Ciudad de Henderson proviene del lago Mead por medio del río Colorado. Puede aprender más sobre la calidad de su agua dentro del Reporte de Calidad de Agua de la Ciudad de Henderson 2020: <https://www.cityofhenderson.com/home/showpublisheddocument?id=2654>

Community Involvement Plan, Revision 4
Nevada Environmental Response Trust Site
Henderson, Nevada

ATTACHMENT E-13
FEBRUARY 2022 COMMUNITY INFORMATION
DOCUMENTS PROVIDED IN MAILING



February 24, 2022

i Una versión en español de este documento también está disponible en el sitio web www.NERT-Trust.com o al contactar a James Dotchin (JD) por teléfono (702-668-3914) o por correo electrónico (jdotchin@ndep.nv.gov).

Dear Resident:

I am writing to you because you live near an area being investigated by the Nevada Division of Environmental Protection (NDEP). You are not at risk, but I want to inform you about our ongoing work and respond to concerns you may have. Cleanup of the environment is part of NDEP's mission to preserve and enhance the environment of the State in order to protect public health, sustain healthy ecosystems, and contribute to a vibrant economy.

We are investigating how pollutants from property formerly owned by Tronox and Kerr-McGee have affected the Las Vegas Wash and nearby soil and water. NERT – short for the Nevada Environmental Response Trust – now owns the former Tronox/Kerr-McGee property (NERT Site) and is responsible for the investigation.

NDEP has communicated ongoing work at the NERT Site and surrounding areas in fact sheets since 2007. Since 2011, NDEP has updated the fact sheets each year and mailed them to the public. Attached is Fact Sheet #11, which provides an overview of 2021 activities at the NERT Site and NDEP's progress towards cleaning up contamination related to the NERT Site. Fact sheets from years prior to 2021 contain additional background on the NERT Site and may be viewed at www.NERT-Trust.com.

The investigation covers three main areas, which are **shown on the map included with this packet**:

- The NERT Site.
- Unincorporated parts of Clark County.
- Land in Henderson between the NERT Site and the Las Vegas Wash.

The main chemical we are concerned about is perchlorate, which was made at the NERT Site before 1998. Perchlorate is used to produce rocket fuel, missiles, fireworks, flares, and explosives. Other chemicals of concern include hexavalent chromium and chloroform, which are also present on the NERT Site.

I also want to personally thank you if you completed our past questionnaires or attended one of our prior public meetings concerning the NERT Site. My colleagues and I appreciate your input, questions, and concerns. We anticipate scheduling our next community meeting upon NDEP's approval of the report that documents the results of the investigation at the NERT Site and areas immediately north and east of the NERT Site. We will send a letter at that time with additional details.

If you have any questions about our investigation or questions not answered in this packet, please contact me at **(702) 668-3914** or jdotchin@ndep.nv.gov. If you would like to review official files at our office, contact Gail Tackett at **(702) 668-3904** or gtackett@ndep.nv.gov to schedule a file review. For concerns related to your health, I encourage you to see your health care professional.

Sincerely,

James Dotchin

James (JD) Dotchin
Chief Environmental Programs
Bureau of Industrial Site Cleanup
Nevada Division of Environmental Protection

Learn more about
the NERT Site:



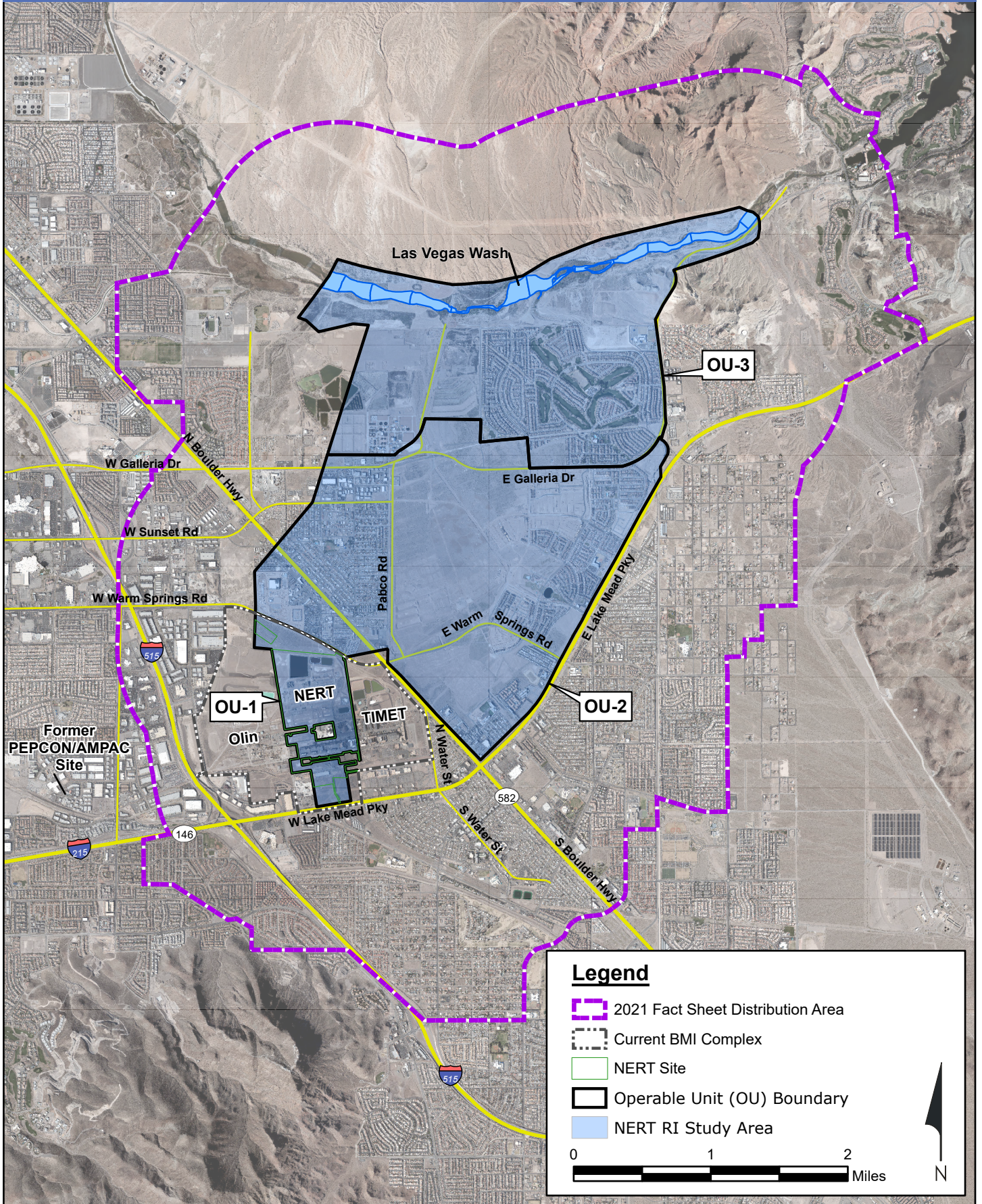
<https://bit.ly/33HzDcZ>

For info about other, unrelated
cleanups within the Black Mountain
Industrial (BMI) complex:



<https://bit.ly/3haA1gN>

Nevada Environmental Response Trust (NERT) Remedial Investigation (RI) Study Area 2021 Fact Sheet Distribution Area



Fact Sheet #11

Nevada Environmental Response Trust Site

Annual 2021 Update

HENDERSON, NEVADA

Updated February 2022

Una versión en español de este documento también está disponible en el sitio web www.NERT-Trust.com o al contactar a James Dotchin (JD) por teléfono (702-668-3914) o por correo electrónico (jdotchin@ndep.nv.gov).

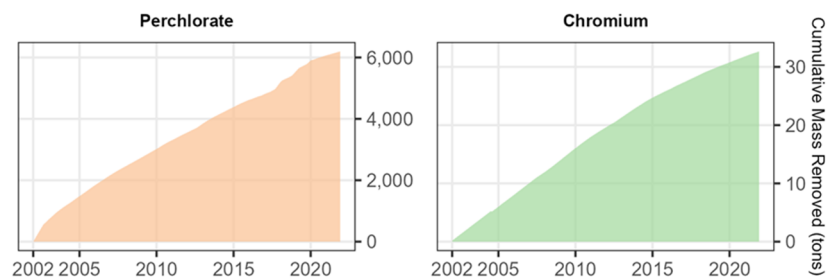
Overview — The Nevada Division of Environmental Protection (NDEP) and the United States Environmental Protection Agency (USEPA) oversee all cleanup activities at the Nevada Environmental Response Trust (NERT) Site. The NERT Site is part of the Black Mountain Industrial (BMI) Complex in Henderson, Nevada. The NERT, also called the Trust, was created in 2011 as part of Tronox Inc.'s bankruptcy and the NERT Site was conveyed to the Trust at that time. The Trust does not conduct any business at the NERT Site; its primary purpose is to implement environmental cleanup activities to address contamination from historic operations at the NERT Site that occurred prior to the Trust's formation.

Cleanup at the NERT Site — Historical operations at the NERT Site, which has been used for various industrial operations since 1942, contaminated the soil and underlying groundwater with four primary chemicals. Perchlorate and chlorate – the most widespread of the four – were historically manufactured at the NERT Site. These chemicals are often used to produce rocket fuel, missiles, fireworks, flares, and explosives. Two additional chemicals – hexavalent chromium and chloroform – while not manufactured at the NERT Site, have been detected in lesser quantities at the NERT Site. Some of this contamination has moved off-site in groundwater, as far north as the Las Vegas Wash. Process wastewater from historical operations also migrated northeast of the NERT Site through unlined ditches into unlined ponds. The unlined ditches were not used for process wastewater after 1976 and the unlined off-site ponds have been closed. The Trust continues to operate a groundwater extraction and treatment system (GWETS) which has reduced contamination to the Las Vegas Wash from the NERT Site by more than 90% relative to 2000 levels.

Key Facts:

- Groundwater is not a source of drinking water in the City of Henderson.
- NDEP has been sharing its progress on the cleanup with the community since 2007; this fact sheet gives the community an update on activities performed in 2021.
- The cleanup of groundwater contaminated by former operations at the NERT Site began in 1987 and continues today. Additional investigations are still being performed.
- Since operation of a groundwater extraction and treatment system (GWETS) began at the NERT Site, the amount of perchlorate contamination from the NERT Site entering the Las Vegas Wash has been reduced by more than 90% relative to 2000 levels.
- 2021 marked the 22nd year of near-continuous operation of the GWETS. Approximately 283,000 pounds of perchlorate were removed from the environment in the last year; since treatment began, the total amount of perchlorate removed is approximately 12.4 million pounds.
- NERT submitted six milestone documents to NDEP in 2021, including remedial investigation and human health and ecological risk assessment reports, which are currently under NDEP review.
- Various groundwater treatment options are currently being tested to determine the best long-term solutions.

Total Mass Removed by NERT GWETS Since 2002



NERT is investigating the contamination in an established area called the NERT Remedial Investigation Study Area (Study Area). This Study Area includes the NERT Site and areas to the north, east, and northeast of the NERT Site. The Study Area is divided into three sub-areas termed “operable units” or OUs, which are shown on the figure included in the mailer. Each of the three OUs has its own set of cleanup goals, with the ultimate goal being to mitigate or minimize the movement of contaminated groundwater from the Study Area to the Las Vegas Wash to be protective of Lake Mead, the Colorado River, and all downstream interests.



Groundwater Treatment System at the NERT Site

Progress Towards Meeting Cleanup Goals — Cleanup at the NERT Site follows the environmental rules of the USEPA and the State of Nevada. NERT is progressing through the cleanup process using the requirements of the Comprehensive Environmental Response, Compensation, and Liability Act, commonly known as CERCLA or Superfund. It is designed to identify, investigate, and clean up sites to protect the public and the environment. To meet cleanup goals, the contamination in all three of NERT’s OUs is being defined through an investigation, after which an engineering evaluation of cleanup options will be completed. Final remedy will be determined by NDEP after NERT’s completion of the investigations and engineering evaluations. It is currently anticipated that public comment will be solicited on the final remedy in 2025.

- 1 NERT achieved several important milestones in 2021: Submittal of the following milestone CERCLA documents, all of which are currently under NDEP review:
 - Remedial Investigation Report for OU-1 and OU-2;
 - OU-1 Soil Baseline Health Risk Assessment (BHRA) Report;
 - OU-1 Soil Gas and Groundwater BHRA Report;
 - OU-2 Soil Gas and Groundwater BHRA Report;
 - OU-1 Refined Screening-Level Ecological Risk Assessment (SLERA) Report; and
 - OU-2 SLERA Report.
- 2 95% completion of the soil, surface water, and groundwater investigation in OU-3, with 100% investigation completion anticipated in March 2022.
- 3 Initiated, continued, and completed the testing of several treatment technologies that will be evaluated in the Feasibility Study to determine the best cleanup methods.

Investigation Findings — The investigation of the Study Area focuses on contamination in groundwater that has moved from the NERT Site toward and into the Las Vegas Wash. Through this seven-year program, more than 50,000 analyses were performed on approximately 7,000 samples, ensuring NERT has a comprehensive understanding of the environmental conditions within the Study Area. The Remedial Investigation Report for OU-1 and OU-2 was submitted to NDEP in July 2021. This report details the nature (i.e., what chemicals) and extent (i.e., where the chemicals are) of the contamination from the NERT Site within the boundaries of OU-1 and OU-2.

The main findings of the RI Report for OU-1 and OU-2 include the following:

- The nature and extent of soil and groundwater contamination from historic operations at the NERT Site have been identified in both OU-1 and OU-2.
- The investigation has determined the direction and rate of groundwater flow within OU-1 and OU-2.
- Releases to groundwater originating from the NERT Site (OU-1) are completely captured by the existing GWETS and do not reach the Las Vegas Wash. However, groundwater contamination already present in the eastern portions of OU-2 and OU-3 resulting from historical contaminant migration via ditches and the historical pond system continues to flow towards the Las Vegas Wash and will be addressed as part of the final remedy.
- Chemicals migrating into OU-1 and OU-2 from other sites for which NERT is not responsible have been defined.

NERT’s investigation of contamination in OU-3 is approximately 95% complete, with field investigation activities expected to be finished by March 2022. A remedial investigation report which details the findings of the investigations within the boundaries of OU-3 is anticipated to be submitted in late 2022.

Risk Assessment Findings — NERT’s risk assessments in OU-1 and OU-2 concluded that there are no unacceptable risks to any receptor (e.g., residents, workers, birds, mammals, or plants). Out of an abundance of caution and consistent with guidance from USEPA, NDEP is requiring NERT to perform a limited indoor air investigation for chloroform in the Pittman Neighborhood solely to confirm the results of the vapor intrusion modeling conducted in the OU-2 human health risk assessment as an additional line of evidence confirming NERT’s finding that there are no unacceptable risks to residents. The limited indoor air investigation efforts began in December 2021 and will continue in 2022. For more information, please see NDEP’s website at: <https://bit.ly/2WKflw1>.

Additional information about the NERT Site, local drinking water, and other investigations within the Black Mountain Industrial (BMI) Complex is accessible by scanning the QR code with your smart phone’s camera or the following link: <https://bit.ly/33HzDcZ>



If you have any questions, please contact the Community Involvement Coordinator at NDEP:

James (JD) Dotchin, Chief Environmental Programs
Bureau of Industrial Site Cleanup, NDEP
375 E. Warm Springs Road, Suite 200, Las Vegas, NV 89119
Phone: 702-668-3914, Email: jdotchin@ndep.nv.gov



24 de febrero, 2022

Estimado residente:

Le hago llegar esta carta porque usted vive cerca del área que está siendo investigada por la División de Protección Ambiental de Nevada (Nevada Division of Environmental Protection) o NDEP (por sus siglas en inglés). Usted no está en riesgo, pero quisiera informarle del trabajo que estamos realizando y responder a cualquier pregunta que pueda tener. La limpieza del medio ambiente es parte de la misión de la NDEP para preservar y mejorar el medio ambiente del Estado con el fin de proteger la salud pública, mantener ecosistemas saludables, y contribuir a una economía vibrante.

Estamos investigando como los contaminantes de la propiedad que pertenecía a Tronox y Kerr-McGee han afectado al Canal Las Vegas (Las Vegas Wash), y el suelo y agua a su alrededor. El Fideicomiso de Respuesta Ambiental de Nevada (Nevada Environmental Response Trust) o NERT (por sus siglas en inglés) es el actual dueño de la propiedad (Sitio NERT) y es responsable de la investigación.

La NDEP ha comunicado el progreso del trabajo en el Sitio NERT y zonas aledañas por medio de Fichas Informativas (Fact Sheets) desde el año 2007. Anualmente desde el año 2011, la NDEP ha actualizado y enviado por correo al público las Fichas Informativas. La Ficha Informativa #11 adjunta a esta carta, provee un resumen de las actividades ocurridas en el Sitio NERT durante el año 2021, y del progreso realizado por la NDEP hacia la limpieza de la contaminación relacionada con el Sitio NERT. Las Fichas Informativas previas al año 2021 contienen información adicional sobre los antecedentes del Sitio NERT y se pueden encontrar en www.NERT-Trust.com.

La investigación cubre las siguientes tres áreas principales, las cuales son **mostradas en el mapa incluido en este paquete**:

- El Sitio NERT
- Partes no incorporadas del Condado de Clark
- Terrenos en Henderson entre el Sitio NERT y el Canal Las Vegas

El contaminante de mayor interés es el perclorato, el cual fue producido en el Sitio NERT antes del año 1998. El perclorato es comúnmente utilizado para producir combustible para cohetes, misiles, fuegos artificiales, bengalas y explosivos. Otros contaminantes de interés son el cromo hexavalente y cloroformo, los cuales también están presentes en el Sitio NERT.

Quisiera también agradecerle personalmente si previamente completó uno de nuestros cuestionarios o asistió alguna de nuestras reuniones comunitarias relacionadas al Sitio NERT. Mis colegas y yo agradecemos sus contribuciones, preguntas, e inquietudes. Anticipamos programar nuestra siguiente reunión comunitaria cuando el informe de los resultados de la investigación del Sitio NERT y de las zonas directamente al norte y al este sea aprobado por la NDEP. Alrededor de esa fecha, nosotros le enviaremos una carta con detalles adicionales.

Si tiene preguntas acerca de nuestra investigación o preguntas que no fueron respondidas con la información incluida en este paquete, por favor contácteme al **702-668-3914** o a jdotchin@ndep.nv.gov. Si desea revisar los documentos oficiales en nuestra oficina, contacte a Gail Tackett al (702) 668- 3904 o gtackett@ndep.nv.gov para

programar la revisión de los documentos. Para inquietudes o dudas relacionadas a su salud, le recomiendo consultar a su profesional de salud.

Atentamente,

James Dotchin

James (JD) Dotchin
Jefe de Programas Ambientales
Oficina de Limpieza de Sitios Industriales
División de Protección Ambiental de Nevada

**Para más
información del
Sitio NERT:**



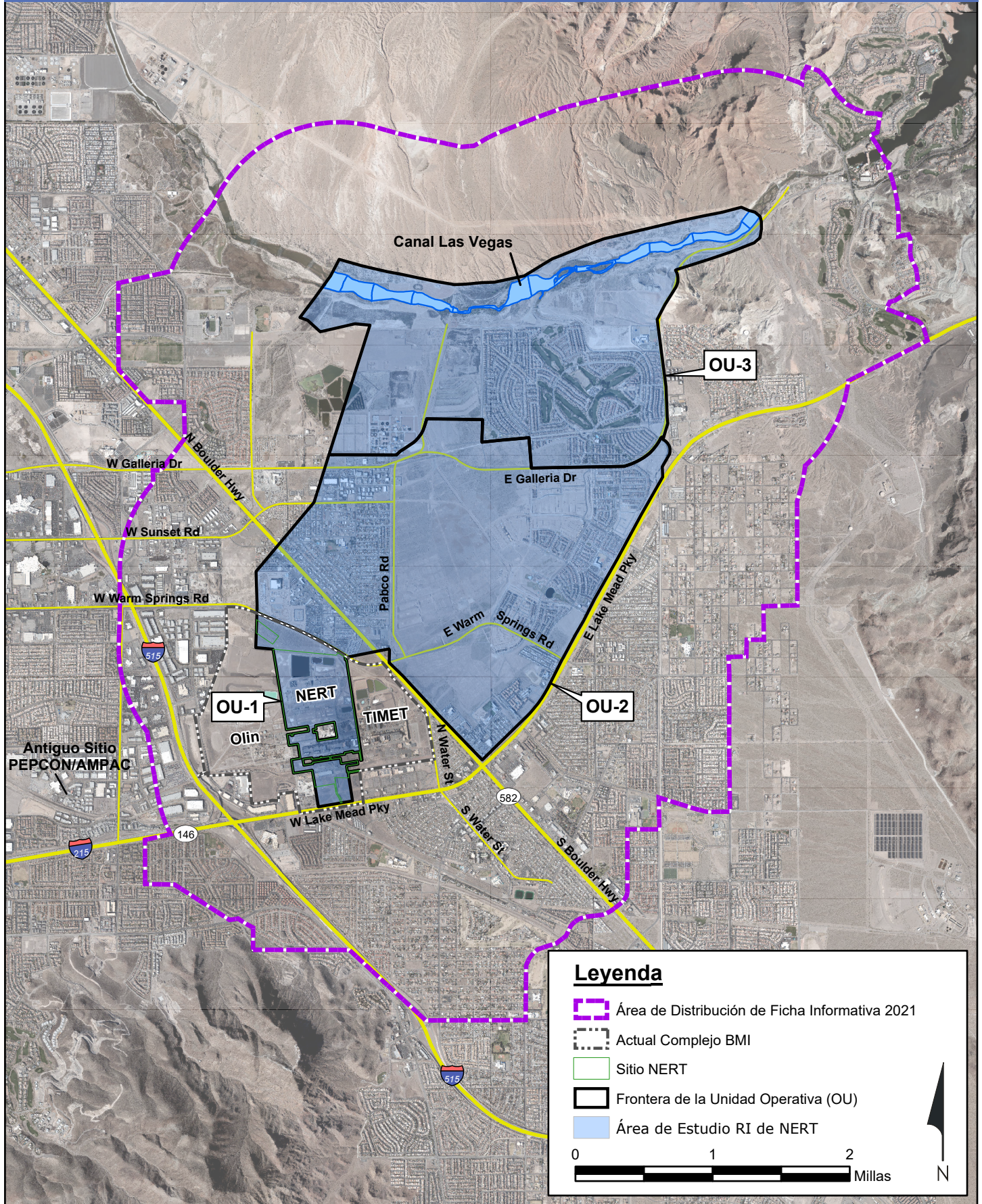
<https://bit.ly/33HzDcZ>

**Para información de otras
limpiezas no relacionadas, dentro
del complejo Industrial Black
Mountain (BMI)**



<https://bit.ly/3haAiqN>

Fideicomiso de Respuesta Ambiental de Nevada (NERT) Área de Estudio de la Investigación de Remediación (RI) Área de Distribución de la Ficha Informativa 2021



Ficha Informativa #11

Sitio del Fideicomiso de Respuesta Ambiental de Nevada Informe Anual 2021

HENDERSON, NEVADA

Actualizada en febrero 2022

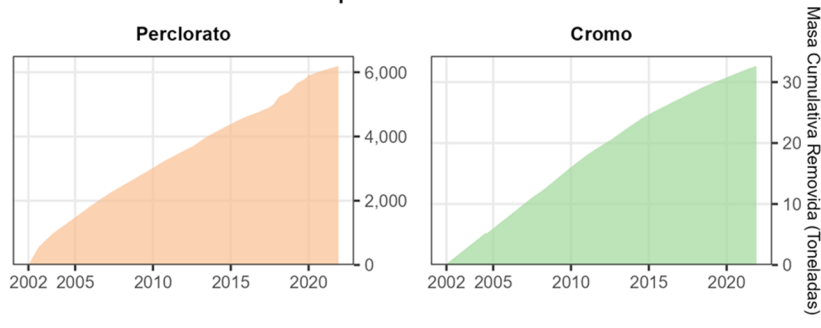
Resumen — La División de Protección Ambiental de Nevada (NDEP, por sus siglas en inglés) y la Agencia de Protección Ambiental de Estados Unidos (USEPA, por sus siglas en inglés) supervisan todas las actividades de limpieza en el Sitio del Fideicomiso de Respuesta Ambiental de Nevada (NERT, por sus siglas en inglés). El Sitio NERT es parte del Complejo Industrial Montaña Negra (BMI, por sus siglas en inglés) en Henderson, Nevada. El NERT, también conocido como el Fideicomiso, fue creado en el 2011 como parte del acuerdo de bancarota de Tronox Inc. y, durante ese tiempo, el Sitio NERT fue transferido al Fideicomiso. El Fideicomiso no realiza ninguna actividad comercial en el Sitio NERT; su objetivo principal es la limpieza de la contaminación causada por operaciones históricas en el Sitio NERT anteriores a la creación del Fideicomiso.

Limpieza en el Sitio NERT — Operaciones históricas en el Sitio NERT, el cual ha sido utilizado para varios procesos industriales desde el año 1942, contaminaron el suelo y las aguas subterráneas con cuatro químicos primarios. El perclorato y clorato — que son los más abundantes de los cuatro — fueron históricamente fabricados en el Sitio NERT. Estos químicos son comúnmente utilizados para producir combustible para misiles, fuegos artificiales, bengalas, y explosivos. Dos químicos adicionales — cromo hexavalente y cloroformo — pese a no haber sido manufacturados en el sitio NERT, han sido detectados en menores cantidades en el Sitio NERT. Parte de esta contaminación migró fuera del sitio por medio del agua subterránea tan al norte como el Canal Las Vegas. Aguas residuales de los procesos históricos también migraron al noreste del Sitio NERT por medio de zanjas sin recubrimiento hacia lagunas sin recubrimiento. Las zanjas sin recubrimiento dejaron de ser utilizadas para agua residual de procesos a partir del año 1976, y las lagunas sin recubrimiento localizadas fuera del sitio han sido cerradas. El Fideicomiso continúa operando el sistema de captura y tratamiento de agua subterránea (GWETS), el cual ha reducido la contaminación que fluye hacia el Canal Las Vegas desde el Sitio NERT más de un 90% con relación a los niveles del año 2000.

Hechos Clave:

- El agua subterránea no es una fuente de suministro de agua potable de la Ciudad de Henderson.
- Desde el 2007, la NDEP ha informado a la comunidad sobre el progreso de la limpieza; esta ficha informativa actualiza a la comunidad sobre las actividades realizadas en el año 2021.
- La limpieza del agua subterránea contaminada por operaciones históricas en el Sitio NERT comenzó en 1987 y continúa actualmente. Se continúan realizando investigaciones adicionales.
- Desde el inicio de la operación del sistema de extracción y tratamiento de aguas subterráneas (GWETS, por sus siglas en inglés) del Sitio NERT, la cantidad de contaminación de perclorato proveniente del Sitio NERT que llega al Canal Las Vegas (Las Vegas Wash) se ha reducido por más del 90% con relación a los niveles del año 2000.
- El año 2021 ha marcado el 22º año de casi-continua operación del sistema GWETS. Aproximadamente 283,000 libras de perclorato fueron removidas del medio ambiente el año pasado; desde que el tratamiento comenzó, la cantidad total de perclorato removido es aproximadamente 12.4 millones de libras.
- En el 2021, el NERT entregó a la NDEP seis documentos que cumplen con metas importantes, incluyendo informes de la investigación de remediación y de evaluación de riesgo a la salud humana y a la ecología, los cuales están en proceso de revisión por la NDEP.
- Actualmente se están probando varias opciones de tratamiento de aguas subterráneas para determinar las mejores soluciones a largo plazo.

Masa Total Removida por la GWETS de NERT desde el 2002



NERT está investigando la contaminación dentro de un área establecida llamada el Área de Estudio de la Investigación de Remediación de NERT (Área de Estudio). El Área de Estudio incluye el Sitio NERT y áreas aledañas al norte, este, y noreste del Sitio NERT. El Área de Estudio está dividida en tres áreas categorizadas como “Unidades Operativas” u “OUs” (por sus siglas en inglés), las cuales son mostradas en el mapa incluido en este paquete. Cada una de estas tres OUs tiene sus propios objetivos de limpieza, teniendo como meta final mitigar o minimizar el movimiento de aguas subterráneas contaminadas desde el Área de Estudio hasta el Canal Las Vegas para proteger el Lago Mead, el Río Colorado, y todos los intereses aguas abajo.



Sistema de Tratamiento de Aguas Subterráneas del Sitio NERT

Progreso Hacia Cumplir las Metas de Limpieza — La limpieza del Sitio NERT sigue los reglamentos ambientales de la USEPA y del Estado de Nevada. NERT está avanzando el proceso de limpieza utilizando los requisitos de la Ley de Responsabilidad, Compensación y Recuperación Ambiental mejor conocida como CERCLA (por sus siglas en inglés) o Superfondo. Está diseñada para identificar, investigar, y limpiar sitios para proteger al público y al medio ambiente. Para poder cumplir con los objetivos de limpieza, la contaminación de las tres OUs se está definiendo a través de una investigación, tras la cual se realizará una evaluación de ingeniería de las opciones de limpieza. El remedio final será determinado por la NDEP después de que las investigaciones y evaluaciones de ingeniería hayan sido completadas por NERT. Actualmente, se anticipa que se solicitarán comentarios del público sobre el remedio final en el año 2025.

NERT alcanzó varios hitos importantes en el año 2021:

- 1 Entrega de los siguientes documentos que cumplen con metas importantes de CERCLA y que están en proceso de revisión por la NDEP:
 - Informe de la Investigación de Remediación para la OU-1 y OU-2;
 - Informe de Evaluación de Referencia sobre Riesgos a la Salud Humana (BHRA, por sus siglas en inglés) para los Suelos de la OU-1 ;
 - Informe BHRA para Gases del Suelo y Agua Subterránea de la OU-1;
 - Informe BHRA para Gases del Suelo y Agua Subterránea de la OU-2;
 - Informe de Evaluación Refinada de los Niveles de Referencia sobre Riesgos Ecológicos (SLERA, por sus siglas en inglés) para la OU-1; y
 - Informe SLERA para la OU-2.
- 2 Finalización de un 95% de la investigación del suelo, agua superficial, y agua subterránea en OU-3, con la finalización del 100% de la investigación anticipada para marzo del 2022.
- 3 Se iniciaron, continuaron, y completaron las pruebas de varias tecnologías de tratamiento que serán evaluadas en el Estudio de Viabilidad para determinar los mejores métodos de limpieza.

Resultados de la Investigación — La investigación del Área de Estudio se enfoca en la contaminación del agua subterránea que ha fluido desde el Sitio NERT hacia y dentro del Canal Las Vegas. A través de este programa de siete años, más de 50,000 análisis fueron realizados en aproximadamente 7,000 muestras, asegurando

que NERT tiene un amplio conocimiento de las condiciones ambientales dentro del Área de Estudio. El Informe de Investigación de Remediación (RI, por sus siglas en inglés) de OU-1 y OU-2 fue entregado a la NDEP en julio del 2021. Este informe detalla los contaminantes y la magnitud (es decir, donde se encuentran los contaminantes) de la contaminación del Sitio NERT dentro de los límites de OU-1 y OU-2.

Las principales conclusiones del Informe RI de OU-1 y OU-2 incluyen:

- Se identificaron los contaminantes y la magnitud de la contaminación del suelo y agua subterránea en OU-1 y OU-2 causada por operaciones históricas en el Sitio NERT.
- La investigación ha determinado la dirección y caudal del agua subterránea dentro de OU-1 y OU-2.
- Descargas a aguas subterráneas provenientes del Sitio NERT (OU-1) son capturadas en su totalidad por medio del GWETS y no llegan al Canal Las Vegas. Sin embargo, la contaminación del agua subterránea existente en las partes del este de OU-2 y OU-3 resultante de la migración histórica de contaminantes por medio de zanjas y el antiguo sistema de lagunas continúa fluyendo hacia el Canal Las Vegas y se abordará como parte del remedio final.
- Se definieron los químicos que se originan en otros sitios y migran a la OU-1 y OU-2, y de los cuales NERT no es responsable.

La investigación por parte de NERT de la contaminación de OU-3 está finalizada al 95%, y se anticipa terminar las actividades de investigación de campo para marzo del 2022. Se anticipa que a finales del 2022 se entregará el informe de investigación de remediación que detallará las conclusiones de las investigaciones dentro de los límites de OU-3.

Resultados de la Evaluación de Riesgos — Los resultados de la evaluación de riesgos en OU-1 y OU-2 realizados por NERT concluyeron que no hay riesgos inaceptables para ningún receptor (es decir, residentes, trabajadores, aves, mamíferos, o plantas). Como medida de extrema precaución y de acuerdo con las normativas de USEPA, la NDEP está requiriendo que NERT realice una investigación limitada de cloroformo en el aire interior de la Comunidad de Pittman con el sólo propósito de confirmar los resultados del modelo de intrusión de vapor realizado en la evaluación de riesgos a la salud humana de la OU-2 como evidencia adicional que confirme la conclusión de NERT que no hay riesgos inaceptables para los residentes. La investigación limitada de aire interior comenzó en diciembre del 2021 y continuará en el 2022. Para más información, por favor visite la página web de la NDEP: <https://bit.ly/2WKflw1>.

Información adicional sobre el Sitio NERT, agua potable local, y otras investigaciones dentro del Complejo Industrial Montaña Negra (BMI) es accesible escaneando el código QR con la cámara de su teléfono móvil inteligente, o visitando el siguiente enlace: <https://bit.ly/33HzDcZ>



Si tiene alguna pregunta, por favor contacte al Coordinador de Participación Comunitaria de la NDEP:

James (JD) Dotchin, Jefe de Programas Ambientales
Oficina de Limpieza de Sitios Industriales, NDEP
375 E. Warm Springs Road, Suite 200, Las Vegas, NV 89119
Phone: 702-668-3914
Correo electrónico: jdotchin@ndep.nv.gov

Community Involvement Plan, Revision 4
Nevada Environmental Response Trust Site
Henderson, Nevada

**ATTACHMENT E-14
JANUARY 2023 COMMUNITY INFORMATION
DOCUMENTS PROVIDED IN MAILING**



January 31, 2023

❶ **Una versión en español** de este documento también está disponible en el sitio web www.NERT-Trust.com o al contactar a James Dotchin (JD) por teléfono (702-668-3914) o por correo electrónico (jdotchin@ndep.nv.gov).

Dear Resident:

I am writing to you because you live near an area being investigated by the Nevada Division of Environmental Protection (NDEP). You are not at risk, but I want to inform you about our ongoing work and respond to concerns you may have. Cleanup of the environment is part of NDEP's mission to preserve and enhance the environment of the State in order to protect public health, sustain healthy ecosystems, and contribute to a vibrant economy.

We are investigating how pollutants from property formerly owned by Tronox and Kerr-McGee have affected the Las Vegas Wash and nearby soil and water. NERT – short for the Nevada Environmental Response Trust – now owns the former Tronox/Kerr-McGee property (NERT Site) and is responsible for the investigation.

NDEP has communicated ongoing work at the NERT Site and surrounding areas in fact sheets since 2007. Since 2011, NDEP has updated the fact sheets each year and mailed them to the public. Attached is Fact Sheet #12, which provides an overview of 2022 activities at the NERT Site and NDEP's progress towards cleaning up contamination related to the NERT Site. Fact sheets from years prior to 2022 contain additional background on the NERT Site and may be viewed at www.NERT-Trust.com.

The investigation covers three main areas, which are **shown on the map included with this packet**:

- The NERT Site.
- Unincorporated parts of Clark County.
- Land in Henderson between the NERT Site and the Las Vegas Wash.

The main chemical we are concerned about is perchlorate, which was made at the NERT Site before 1998. Perchlorate is used to produce rocket fuel, missiles, fireworks, flares, and explosives. Other chemicals of concern include hexavalent chromium and chloroform, which are also present on the NERT Site.

I also want to personally thank you if you completed our past questionnaires or attended one of our prior public meetings concerning the NERT Site. My colleagues and I appreciate your input, questions, and concerns. We anticipate scheduling our next community meeting upon NDEP's approval of the report that documents the results of the investigation at the NERT Site and areas immediately north and east of the NERT Site. We will send a letter at that time with additional details.

If you have any questions about our investigation or questions not answered in this packet, please contact me at (702) 668-3914 or jdotchin@ndep.nv.gov. If you would like to review official files at our office, contact Danielle Ward at (702) 668-3931 or dward@ndep.nv.gov to schedule a file review. For concerns related to your health, I encourage you to see your health care professional.

Sincerely,

James Dotchin

James (JD) Dotchin
Chief Environmental Programs
Bureau of Industrial Site Cleanup
Nevada Division of Environmental Protection

**Learn more about
the NERT Site:**



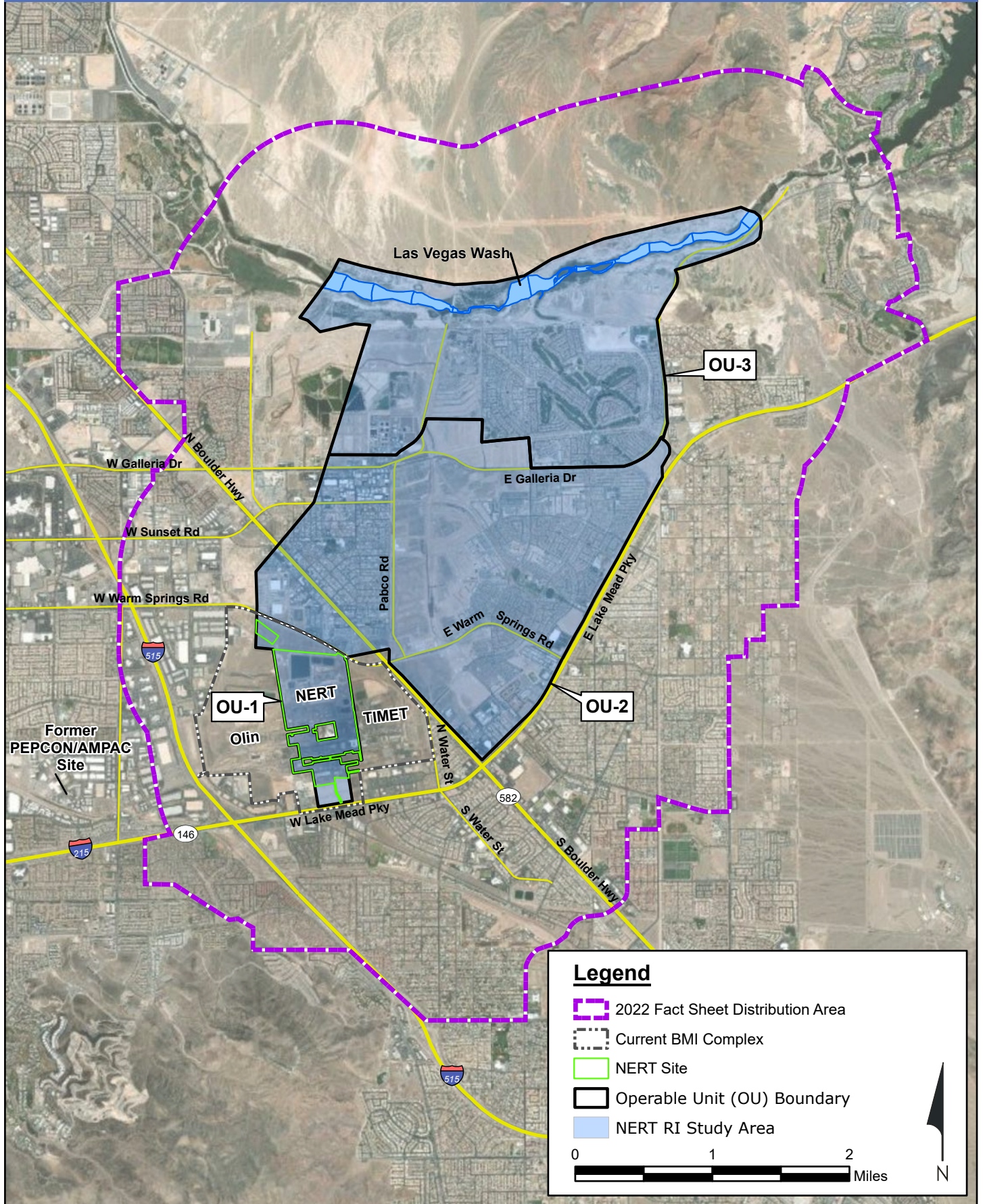
<https://bit.ly/33HzDcZ>

**For info about other, unrelated
cleanups within the Black Mountain
Industrial (BMI) complex:**



<https://bit.ly/3haA1gN>

Nevada Environmental Response Trust (NERT) Remedial Investigation (RI) Study Area 2022 Fact Sheet Distribution Area



Nevada Environmental Response Trust Site

Annual 2022 Update

Fact Sheet #12

HENDERSON, NEVADA

Updated January 2023

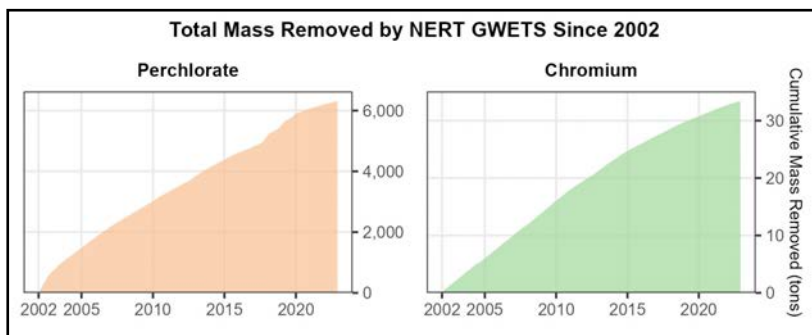
Una versión en español de este documento también está disponible en el sitio web www.NERT-Trust.com o al contactar a James Dotchin (JD) por teléfono (702-668-3914) o por correo electrónico (jdotchin@ndep.nv.gov).

Overview — The Nevada Division of Environmental Protection (NDEP) and the United States Environmental Protection Agency (USEPA) oversee cleanup activities at the Nevada Environmental Response Trust (NERT) Site. The NERT Site is part of the Black Mountain Industrial (BMI) Complex in Henderson, Nevada. The NERT, also called the Trust, was created in 2011 as part of Tronox Inc.'s bankruptcy and the NERT Site was conveyed to the Trust at that time. The Trust does not conduct any business at the NERT Site; its primary purpose is to implement environmental cleanup activities to address contamination from historic operations at the NERT Site that occurred prior to the Trust's formation.

Key Facts:

- NDEP has been sharing its progress on the cleanup with the community since 2007; this fact sheet gives the community an update on activities performed in 2022.
- The cleanup of groundwater contaminated by former operations at the NERT Site began in 1987 and continues today. Approximately 235,000 pounds of perchlorate contamination were removed from the environment in 2022; since treatment began, the total amount of perchlorate removed is approximately 12.7 million pounds.
- **Groundwater is not a source of drinking water in the City of Henderson.**
- The groundwater extraction and treatment system (GWETS) has reduced the amount of perchlorate contamination from the NERT Site entering the Las Vegas Wash, which flows into Lake Mead, by more than 90% relative to 2000 levels, increasing the overall water quality of Lake Mead and all downstream users of the Colorado River.
- Planned investigations regarding the nature and extent of contamination are complete.
- Six key documents evaluating area investigations were submitted by NERT over the past 18 months representing over 9,000 pages of material.
- Various groundwater treatment options are currently being tested to determine the best long-term solutions.

Cleanup at the NERT Site — Historical operations at the NERT Site, which has been used for various industrial operations since 1942, contaminated the soil and underlying groundwater with four primary chemicals. Perchlorate and chlorate – the most widespread of the four – were historically manufactured at the NERT Site. These chemicals are often used to produce rocket fuel, missiles, fireworks, flares, and explosives. Two additional chemicals – hexavalent chromium and chloroform – while not manufactured at the NERT Site, have been detected in lesser quantities at the NERT Site. Some of this contamination has moved off-site in groundwater, as far north as the Las Vegas Wash. Process wastewater from historical operations also migrated northeast of the NERT Site through unlined ditches into unlined ponds. The unlined ditches were not used for process wastewater after 1976 and the unlined off-site ponds have been closed. The Trust continues to operate a groundwater extraction and treatment system (GWETS) which has reduced contamination to the Las Vegas Wash from the NERT Site by more than 90% relative to 2000 levels.



NERT is evaluating the contamination in an established area called the NERT Remedial Investigation Study Area (Study Area). This Study Area includes the NERT Site and areas to the north, east, and northeast of the NERT Site. The Study Area is divided into three sub-areas termed “operable units” or OUs, which are shown on the figure included in the mailer. Each of the three OUs has its own set of cleanup goals, with the ultimate goal being to mitigate or minimize the movement of contaminated groundwater from the Study Area to the Las Vegas Wash to be protective of Lake Mead and the Colorado River.



Groundwater Treatment System at the NERT Site

Progress Towards Meeting Cleanup Goals — Cleanup at the NERT Site follows the environmental rules of the USEPA and the State of Nevada. NERT is progressing through the cleanup process using the requirements of the Comprehensive Environmental Response, Compensation, and Liability Act, commonly known as CERCLA or Superfund. It is designed to identify, investigate, and clean up sites to protect the public and the environment. To meet cleanup goals, the contamination in all three of NERT’s OUs is being defined through an investigation, after which an engineering evaluation of cleanup options (called a Feasibility Study) will be completed. Final remedy will be determined by NDEP after NERT’s completion of the investigations and engineering evaluations. It is currently anticipated that public comment will be solicited on the final remedy in late 2025.

Important tasks achieved by NERT in 2022 included:

- 1 Of the six key documents submitted to NDEP within the last 18 months, NDEP already provided its approval of one in 2022. The remaining five were reviewed by NDEP, and NERT is currently revising the documents to address NDEP’s comments.
- 2 Completion of NDEP-directed indoor air evaluation in the Pittman neighborhood.
- 3 Completion of the soil, soil gas, surface water, and groundwater investigation in OU-3.
- 4 Completion of the Las Vegas Wash field investigation for the OU-3 ecological risk assessment.
- 5 Initiated, continued, and/or completed the field testing of several treatment technologies in 10 Treatability and Pilot Studies that will be evaluated in the Feasibility Study to determine the best cleanup methods.

Risk Assessment Findings — NERT’s risk assessments in OU-1 and OU-2 concluded that risks due to exposure to NERT contaminants are within the acceptable range established by NDEP and USEPA for the Site for all receptors (e.g., residents, workers, birds, mammals, or plants). In addition, the results of the NDEP-directed indoor air investigation for chloroform in the Pittman Neighborhood conducted in 2022 confirmed the same with respect to residents in OU-2. The results demonstrated that chloroform concentrations in indoor air are well below thresholds established by NDEP and USEPA. For more information, please see NDEP’s website at: <https://bit.ly/3W2pqx5>. NERT will be conducting risk assessments in OU-3 in 2023 with submittal to NDEP anticipated in 2024.

Additional information — Additional information about the NERT Site, local drinking water, and other investigations within the Black Mountain Industrial (BMI) Complex is accessible by scanning the QR code with your smart phone’s camera or the following link: <https://bit.ly/33HzDcZ>



Investigation Findings — The investigation of the Study Area focuses on contamination in groundwater that has moved from the NERT Site toward and into the Las Vegas Wash. Through this eight-year program, more than 53,000 analyses were performed on approximately 8,500 samples, ensuring NERT has a comprehensive understanding of the environmental conditions within the Study Area. NERT and NDEP are currently working to finalize the revised Remedial Investigation Report for OU-1 and OU-2. This report details the nature (i.e., what chemicals) and extent (i.e., where the chemicals are) of the contamination from the NERT Site within the boundaries of OU-1 and OU-2. NERT’s planned investigation of contamination in OU-3 is complete. The investigations evaluated potential contamination in soil, soil gas, groundwater, surface water, and sediment, as well as potential exposure to key contaminants to ecological receptors (e.g. plants and animals) in the Las Vegas Wash. A remedial investigation report, which details the findings of the investigations within the boundaries of OU-3, is anticipated to be submitted in late 2023.

Treatability and Pilot Study Results — NERT is in the process of field testing several potential technologies to reduce contamination in soil and groundwater. To date, 10 studies have either been completed or are currently in progress. Preliminary results from these studies have demonstrated the ability of certain remedial technologies to dramatically reduce contaminant concentrations and prevent further migration of contaminants. These studies are expected to be completed in 2024.



Injection and Extraction System Equipment for a NERT Treatability Study



NEVADA DIVISION OF
**ENVIRONMENTAL
PROTECTION**

If you have any questions, please contact the Community Involvement Coordinator at NDEP:

James (JD) Dotchin, Chief Environmental Programs
Bureau of Industrial Site Cleanup, NDEP
375 E. Warm Springs Road, Suite 200, Las Vegas, NV 89119
Phone: 702-668-3914, Email: jdotchin@ndep.nv.gov



31 de enero, 2023

Estimado residente:

Le hago llegar esta carta porque usted vive cerca del área que está siendo investigada por la División de Protección Ambiental de Nevada (Nevada Division of Environmental Protection) o NDEP (por sus siglas en inglés). Usted no está en riesgo, pero quisiera informarle del trabajo que estamos realizando y responder a cualquier pregunta que pueda tener. La limpieza del medio ambiente es parte de la misión de la NDEP para preservar y mejorar el medio ambiente del Estado con el fin de proteger la salud pública, mantener ecosistemas saludables, y contribuir a una economía vibrante.

Estamos investigando como los contaminantes de la propiedad que pertenecía a Tronox y Kerr-McGee han afectado al Canal Las Vegas (Las Vegas Wash), y el suelo y agua a su alrededor. El Fideicomiso de Respuesta Ambiental de Nevada (Nevada Environmental Response Trust) o NERT (por sus siglas en inglés) es el actual dueño de la propiedad (Sitio NERT) y es responsable de la investigación.

La NDEP ha comunicado el progreso del trabajo en el Sitio NERT y zonas aledañas por medio de Fichas Informativas (Fact Sheets) desde el año 2007. Anualmente desde el año 2011, la NDEP ha actualizado y enviado por correo al público las Fichas Informativas. La Ficha Informativa #12 adjunta a esta carta, provee un resumen de las actividades ocurridas en el Sitio NERT durante el año 2022, y del progreso realizado por la NDEP hacia la limpieza de la contaminación relacionada con el Sitio NERT. Las Fichas Informativas previas al año 2022 contienen información adicional sobre los antecedentes del Sitio NERT y se pueden encontrar en www.NERT-Trust.com.

La investigación cubre las siguientes tres áreas principales, las cuales son **mostradas en el mapa incluido en este paquete**:

- El Sitio NERT
- Partes no incorporadas del Condado de Clark
- Terrenos en Henderson entre el Sitio NERT y el Canal Las Vegas

El contaminante de mayor interés es el perclorato, el cual fue producido en el Sitio NERT antes del año 1998. El perclorato es comúnmente utilizado para producir combustible para cohetes, misiles, fuegos artificiales, bengalas y explosivos. Otros contaminantes de interés son el cromo hexavalente y cloroformo, los cuales también están presentes en el Sitio NERT.

Quisiera también agradecerle personalmente si previamente completó uno de nuestros cuestionarios o asistió alguna de nuestras reuniones comunitarias relacionadas al Sitio NERT. Mis colegas y yo agradecemos sus contribuciones, preguntas, e inquietudes. Anticipamos programar nuestra siguiente reunión comunitaria cuando el informe de los resultados de la investigación del Sitio NERT y de las zonas directamente al norte y al este sea aprobado por la NDEP. Alrededor de esa fecha, nosotros le enviaremos una carta con detalles adicionales.

Si tiene preguntas acerca de nuestra investigación o preguntas que no fueron respondidas con la información incluida en este paquete, por favor contácteme al **702-668-3914** o a jdotchin@ndep.nv.gov. Si desea revisar los documentos oficiales en nuestra oficina, contacte a Danielle Ward al **(702) 668- 3931** o dward@ndep.nv.gov para programar la revisión de los documentos. Para inquietudes o dudas relacionadas a su salud, le recomiendo consultar a su profesional de salud.

Atentamente,

James Dotchin

James (JD) Dotchin
Jefe de Programas Ambientales
Oficina de Limpieza de Sitios Industriales
División de Protección Ambiental de Nevada

**Para más información
del Sitio NERT:**



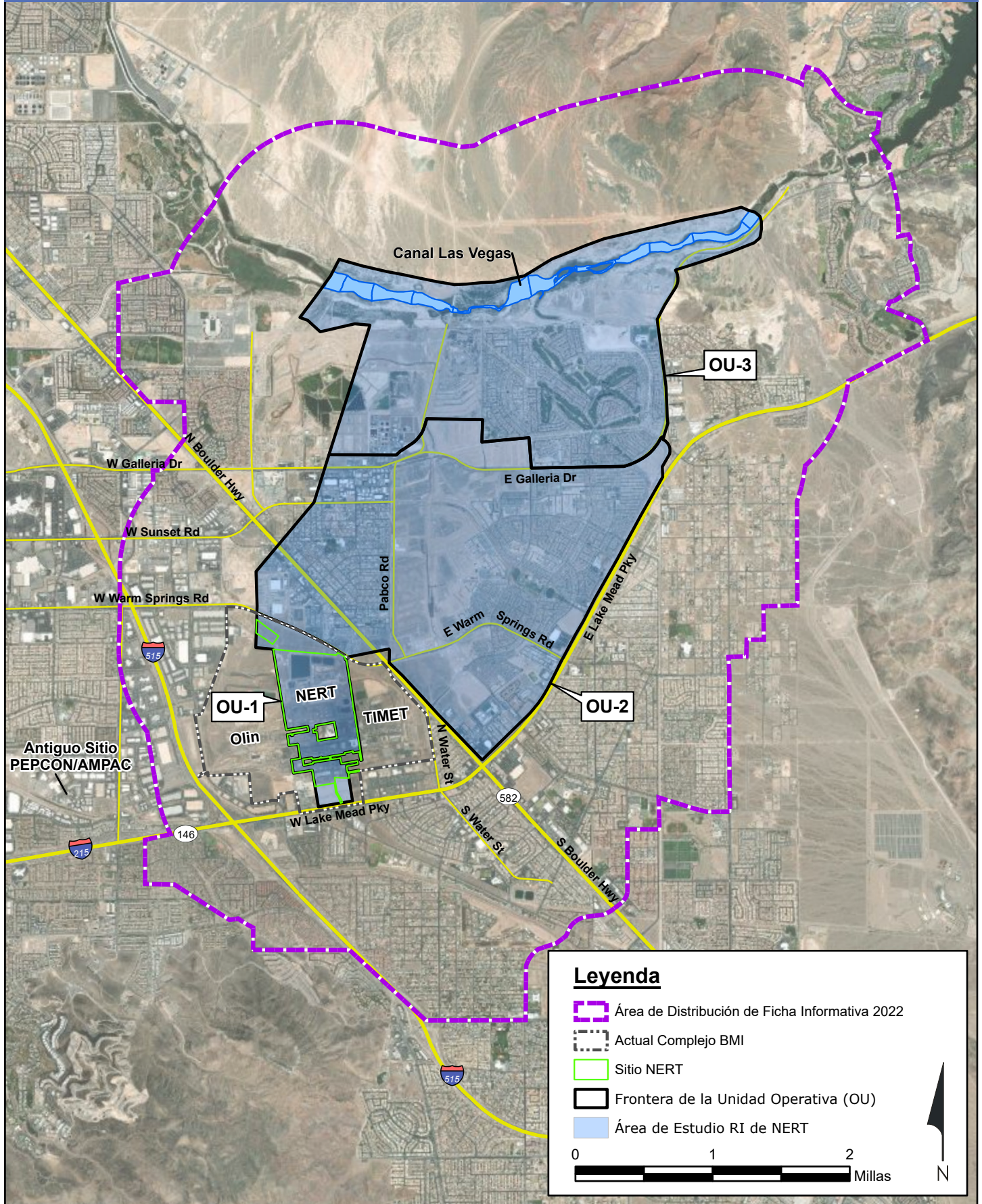
<https://bit.ly/33HzDcZ>

**Para información de otras limpiezas
no relacionadas, dentro del complejo
Industrial Montaña Negra (BMI)**



<https://bit.ly/3haA1qN>

Fideicomiso de Respuesta Ambiental de Nevada (NERT) Área de Estudio de la Investigación de Remediación (RI) Área de Distribución de la Ficha Informativa 2022



Sitio del Fideicomiso de Respuesta Ambiental de Nevada

Informe Anual 2022

Ficha Informativa #12

HENDERSON, NEVADA

Actualizada en enero 2023

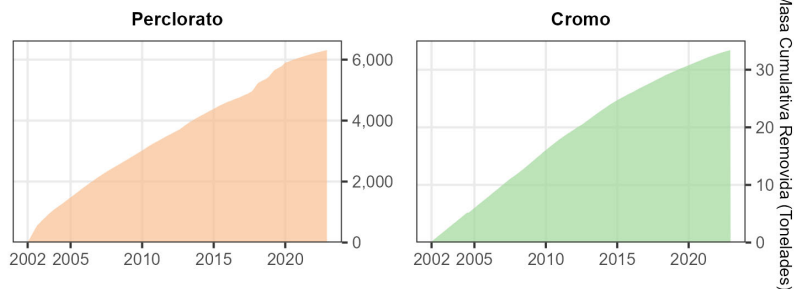
Resumen — La División de Protección Ambiental de Nevada (NDEP, por sus siglas en inglés) y la Agencia de Protección Ambiental de Estados Unidos (USEPA, por sus siglas en inglés) supervisan todas las actividades de limpieza en el Sitio del Fideicomiso de Respuesta Ambiental de Nevada (NERT, por sus siglas en inglés). El Sitio NERT es parte del Complejo Industrial Montaña Negra (BMI, por sus siglas en inglés) en Henderson, Nevada. El NERT, también conocido como el Fideicomiso, fue creado en el 2011 como parte del acuerdo de bancarrota de Tronox Inc. y, durante ese tiempo, el Sitio NERT fue transferido al Fideicomiso. El Fideicomiso no realiza ninguna actividad comercial en el Sitio NERT; su objetivo principal es la limpieza de la contaminación causada por operaciones históricas en el Sitio NERT anteriores a la creación del Fideicomiso.

Hechos Clave:

- Desde el año 2007, la NDEP ha informado a la comunidad sobre el progreso de la limpieza; esta ficha informativa actualiza a la comunidad sobre las actividades realizadas en el año 2022.
- La limpieza del agua subterránea contaminada por operaciones históricas en el Sitio NERT comenzó en el año 1987 y continúa actualmente. En el año 2022, aproximadamente 235,000 libras de contaminación de perclorato fueron removidas del medio ambiente; desde el inicio del tratamiento, la cantidad total de perclorato removido es aproximadamente 12.7 millones de libras.
- **El agua subterránea no es una fuente de suministro de agua potable de la Ciudad de Henderson.**
- El sistema de extracción y tratamiento de aguas subterráneas (GWETS, por sus siglas en inglés) ha reducido la cantidad de contaminación de perclorato del Sitio NERT que llega al Canal Las Vegas (Las Vegas Wash), el cual desemboca en el Lago Mead, por más del 90% con relación a los niveles del año 2000, incrementando así la calidad general del agua del Lago Mead y de todos los usuarios del río Colorado que se encuentran río abajo.
- Se completaron las investigaciones planeadas respecto a la naturaleza y magnitud de la contaminación.
- Durante los últimos 18 meses el NERT sometió seis documentos importantes que evalúan las investigaciones del área, representando más de 9,000 páginas de materiales.
- Actualmente se están evaluando varias opciones de tratamiento de aguas subterráneas para determinar las mejores soluciones a largo plazo.

Limpieza en el Sitio NERT — Operaciones históricas en el Sitio NERT, el cual ha sido utilizado para varios procesos industriales desde el año 1942, contaminaron el suelo y las aguas subterráneas con cuatro químicos primarios. El perclorato y clorato — que son los más abundantes de los cuatro — fueron históricamente fabricados en el Sitio NERT. Estos químicos son comúnmente utilizados para producir combustible para misiles, fuegos artificiales, bengalas, y explosivos. Dos químicos adicionales — cromo hexavalente y cloroformo — pese a no haber sido manufacturados en el sitio NERT, han sido detectados en menores cantidades en el Sitio NERT. Parte de esta contaminación migró fuera del sitio por medio del agua subterránea tan al norte como el Canal Las Vegas. Aguas residuales de los procesos históricos también migraron al noreste del Sitio NERT por medio de zanjas sin recubrimiento hacia lagunas sin recubrimiento. Las zanjas sin recubrimiento dejaron de ser utilizadas para agua residual de procesos a partir del año 1976, y las lagunas sin recubrimiento localizadas fuera del sitio han sido cerradas. El Fideicomiso continúa operando el sistema de extracción y tratamiento de agua subterránea (GWETS), el cual ha reducido la contaminación que fluye hacia el Canal Las Vegas desde el Sitio NERT más de un 90% con relación a los niveles del año 2000.

Masa Total Removida por la GWETS de NERT desde 2002



El NERT está evaluando la contaminación dentro de un área establecida llamada el Área de Estudio de la Investigación de Remediación de NERT (Área de Estudio). El Área de Estudio incluye el Sitio NERT y áreas aledañas al norte, este, y noreste del Sitio NERT. El Área de Estudio está dividida en tres áreas categorizadas como “Unidades Operativas” u “OUs” (por sus siglas en inglés), las cuales son mostradas en el mapa incluido en este paquete. Cada una de estas tres OUs tiene sus propios objetivos de limpieza, teniendo como meta final mitigar o minimizar el movimiento de aguas subterráneas contaminadas desde el Área de Estudio hasta el Canal Las Vegas para proteger el Lago Mead y al Río Colorado.



Sistema de Tratamiento de Aguas Subterráneas del Sitio NERT

Progreso Hacia Cumplir las Metas de Limpieza — La limpieza del Sitio NERT sigue los reglamentos ambientales de la USEPA y del Estado de Nevada. El NERT está avanzando el proceso de limpieza utilizando los requisitos de la Ley de Respuesta Ambiental Integral, Compensación y Responsabilidad mejor conocida como CERCLA (por sus siglas en inglés) o Superfondo. Está diseñada para identificar, investigar, y limpiar sitios para proteger al público y al medio ambiente. Para cumplir con los objetivos de limpieza, la contaminación de las tres OUs se está determinando a través de una investigación, tras la cual se completará una evaluación de ingeniería de las opciones de limpieza (llamado Estudio de Viabilidad). El remedio final será determinado por la NDEP después de que las investigaciones y evaluaciones de ingeniería hayan sido completadas por el NERT. Actualmente, se anticipa que se solicitarán comentarios del público sobre el remedio final a finales del año 2025.

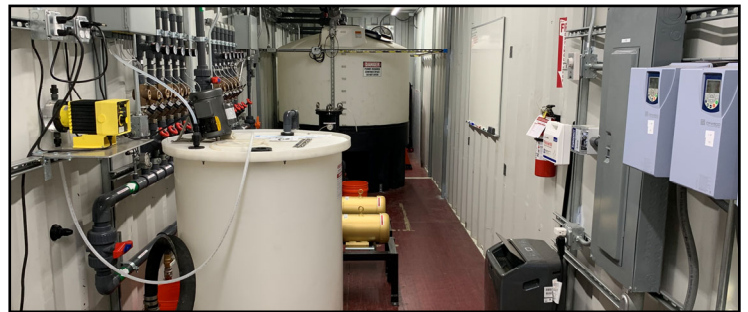
Las tareas importantes alcanzadas por el NERT en el año 2022 incluyen:

- 1 De los seis documentos importantes que fueron sometidos a la NDEP durante los últimos 18 meses, la NDEP aprobó uno en 2022. Los cinco restantes fueron evaluados por la NDEP, y el NERT actualmente está revisando los documentos para resolver los comentarios por parte de la NDEP.
- 2 Se completó la evaluación del aire interior del Vecindario de Pittman dirigida por la NDEP.
- 3 Se completó la investigación del suelo, gas del suelo, agua superficial, y agua subterránea en OU-3.
- 4 Se completó la investigación de campo del Canal Las Vegas para la evaluación de riesgo ecológico en OU-3.
- 5 Se iniciaron, continuaron, y/o completaron las pruebas de campo de varias tecnologías de tratamiento en 10 Estudios de Tratabilidad y Pilotos que serán evaluadas en el Estudio de Viabilidad para determinar los mejores métodos de limpieza.

Resultados de la Evaluación de Riesgos — Los resultados de la evaluación de riesgos de OU-1 y OU-2 realizados por el NERT, concluyeron que los riesgos por exposición a los contaminantes de NERT caen dentro del rango aceptable establecido por la NDEP y la USEPA para el Sitio y para todos los receptores (es decir, residentes, trabajadores, aves, mamíferos, o plantas). Además, los resultados de la investigación sobre cloroformo del aire interior del Vecindario de Pittman, dirigida por la NDEP en el año 2022, confirmó lo mismo con respecto a los residentes de OU-2. Los resultados demostraron que las concentraciones de cloroformo en el aire interior están notablemente por debajo de los límites establecidos por la NDEP y la USEPA. Para más información, por favor visite la página web de la NDEP: <https://bit.ly/3W2pqx5>. El NERT realizará evaluaciones de riesgo de OU-3 en el año 2023 que se anticipa serán sometidas a la NDEP en el año 2024.

Resultados de la Investigación — La investigación del Área de Estudio se enfoca en la contaminación del agua subterránea que ha fluido desde el Sitio NERT hacia y dentro del Canal Las Vegas. A través de este programa de ocho años, más de 53,000 análisis fueron realizados en aproximadamente 8,500 muestras, asegurando que el NERT tiene un amplio conocimiento de las condiciones ambientales dentro del Área de Estudio. El NERT y la NDEP actualmente trabajan en finalizar la revisión del Informe de Investigación de Remediación de OU-1 y OU-2. Este informe describe a detalle los contaminantes (ej. cuáles son los contaminantes) y la magnitud (ej. donde se encuentran los contaminantes) de la contaminación del Sitio NERT dentro de los límites de OU-1 y OU-2. Se completó la investigación planeada por el NERT sobre contaminantes en OU-3. Las investigaciones evaluaron la contaminación potencial del suelo, gas del suelo, aguas subterráneas, aguas superficiales, y sedimentos, así como la posible exposición de los receptores ecológicos (ej. plantas y animales) del Canal Las Vegas a contaminantes. A finales del año 2023, se tiene anticipado someter un reporte de investigación de remediación que describa a detalle los resultados de las investigaciones dentro de los límites de OU-3.

Resultados de los Estudios de Tratabilidad y Pilotos — El NERT está en proceso de evaluar en campo a varias posibles tecnologías para la reducción de la contaminación del suelo y aguas subterráneas. Hasta la fecha, 10 estudios se han completado o se encuentran en curso. Los resultados preliminares de estos estudios han demostrado la habilidad que tienen ciertas tecnologías de remediación de drásticamente reducir las concentraciones de los contaminantes, y de prevenir futura migración de contaminantes. Se espera completar estos estudios en el año 2024.



Equipo del Sistema de Inyección y Extracción para un estudio de Tratabilidad del NERT



NEVADA DIVISION OF
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Información adicional sobre el Sitio NERT, agua potable local, y otras investigaciones dentro del Complejo Industrial Montaña Negra (BMI) es accesible escaneando el código QR con la cámara de su teléfono móvil inteligente, o visitando el siguiente enlace: <https://bit.ly/33HzDcZ>



Si tiene alguna pregunta, por favor contacte al Coordinador de Participación Comunitaria de la NDEP:
James (JD) Dotchin, Jefe de Programas Ambientales
Oficina de Limpieza de Sitios Industriales, NDEP
375 E. Warm Springs Road, Suite 200, Las Vegas, NV 89119
Teléfono : 702-668-3914
Correo electrónico: jdotchin@ndep.nv.gov

Community Involvement Plan, Revision 4
Nevada Environmental Response Trust Site
Henderson, Nevada

APPENDIX F INFORMATION REPOSITORY AND ADMINISTRATIVE RECORD LOCATIONS

Appendix F Information Repository and Administrative Record Locations

Information Repository Locations:

www.NERT-Trust.com

<https://ndep.nv.gov/environmental-cleanup/black-mountain-industrial-bmi-complex/nevada-environmental-response-trust-nert>

Administrative Record Location:

Nevada Division of Environmental Protection
375 E Warm Springs Road, Suite 200
Las Vegas, NV 89119¹

901 S Stewart Street, Suite 4001
Carson City, NV 89701

Henderson Library Locations (for free internet access):

The on-line information repositories can be accessed, free of charge, using computers located at all Henderson Library locations, including:

James I. Gibson Library
100 W Lake Mead Parkway
Henderson, NV 89015

Paseo Verde Library
280 S. Green Valley Parkway
Henderson, NV 89012

Green Valley Library
2797 N. Green Valley Parkway
Henderson, NV 89014

Heritage Park Senior Center Library
300 S. Racetrack Road
Henderson, NV 89015

¹ NDEP's address as of July 1, 2020. NDEP's previous address was 2030 E. Flamingo Road, Suite 230, Las Vegas, Nevada.

Community Involvement Plan, Revision 4
Nevada Environmental Response Trust Site
Henderson, Nevada

APPENDIX G
LOCAL MEDIA CONTACTS

Appendix G Local Media Contacts

Newspapers

Las Vegas Review Journal

1111 W. Bonanza Road
P.O. Box 70
Las Vegas, NV 89106
(702) 383-0211

Julie Wootton-Greener, Henderson
Reporter
jgreener@reviewjournal.com
(702) 387-2921

J. Keith Moyer, Editor-in-Chief
kmoyer@reviewjournal.com
(702) 477-3829

For advertisement inquiries:
adhelp@reviewjournal.com
(702) 383-0383

Las Vegas Sun

2275 Corporate Circle, Suite 300
Henderson, NV 89074
letters@lasvegassun.com
(702) 385-3111

Grace Da Rocha, General Assignment
Local Reporter
(702) 948-7854

For advertisement inquiries:
<http://lasvegassun.com/advertising/>

Associated Press – Las Vegas

300 South Fourth ST, Suite 810
Las Vegas, NV 89101

Ken Ritter, Reporter
kritter@ap.org
(702) 382-7440

El Mundo Las Vegas (Spanish Language)

760 North Eastern Ave. Suite 110
Las Vegas, Nevada 89101
(702) 649-8553

Roberto Pelaez, Editor in Chief
editorial@elmundo.net
(702) 524-6994

For advertising inquiries:
advertising@elmundo.net

Radio Stations

KQLL 1280 AM

60's, 70's & Motown
150 Spectrum Blvd.
Las Vegas, NV 89101
(702) 258-6060

KOAS 850 AM, KDWN 720 AM, KKLZ 96.3 FM, KCYE 102.7 FM, and KVG 107.9 FM

Beasley Media Group
John Shaffer
Program Director
(702) 730-0389
email@bbgi.com
john.shaffer@kdwn.com

KCEP 88.1 FM

Public Radio
Craig Knight
(702) 648-0104
james@kcepfm.com

KNPR 88.9 FM

Public Broadcasting
Joe Schoenmann
News Director
(702) 258-9895 x131
joes@knpr.org

KSOS 90.5 FM

Christian Radio
2201 S. 6th Street
Las Vegas, MN 89104
Scott Herrold
(702) 731-5452
scott@sosradio.net

KRRN 92.7 FM

Spanish Language
Entravision Holdings
Oscar Campos
Director
(702) 507-1011
oscarcampos@entravision.com

KQRT 105.1 FM

Spanish Language
Entravision Holdings
Fabian Saldivar
Director
(702) 507-1007
fsaldivar@entravision.com

KUNV 91.5 FM

Jazz and More
4505 South Maryland Parkway
PO Box 452010
Las Vegas, NV 89154
Ashton Ridley
General Manager
(702) 895-0060
Ashton.ridley@unlv.edu

KMXB 94.1 FM

Popular Music
7255 South Tenaya Way, Suite 100
Las Vegas, NV 89113
(702) 257-9400

KWNR 95.5 FM

County Music
425 Fremont Street, Suite 210
Las Vegas, NV 89102
(702) 238-7300

KXNT 100.5 FM

News Talk
7255 South Tenaya Way, Suite 100
Las Vegas, NV 89113
News Room
(702) 889-7376
kxntnews@entercom.com

CSN Streamin' Radio

College Southern Nevada
Sort Code WCC 151
6375 West Charleston Boulevard
Las Vegas, NV 89146-1164
Andrew Kolb
Radio Lab Coordinator
(702) 651-5886
andrew.kolb@csn.edu

Television Stations

KVVU-TV FOX5

25 TV5 Dr.
Henderson, NV 89014
Editors/News Desk
(702) 436-8256
desk@fox5vegas.com

KTNV Channel 13 Action News

3355 S. Valley View Blvd.
Las Vegas, NV 89102
Newsroom
(702) 368-2255
desk@ktnv.com

KSNV Channel 3

1500 Foremaster Lane
Las Vegas, NV 89101
Newsroom
(702) 657-3150
news@news3lv.com

KVCW Channel 33, KVMY Channel 21

1500 Foremaster Lane
Las Vegas, NV 89101
Newsroom
(702) 657-3150
ml-lasvegas-ksnv-news-3@sbgvtv.com

KLAS Channel 8

3228 Channel 8 Drive
Las Vegas 89109
Newsroom
(702) 792-8888
info@lasvegasnow.com

KBLR Channel 40

Telemundo
Paradise, NV
Abel Ortiz
Reporter
(702) 388-3200
abel.ortiz@nbcuni.com