Intended for: Nevada Environmental Response Trust

Date March 2016

Project Number 21-38800C L01

# COMMUNITY INVOLVEMENT PLAN, REVISION 1 NEVADA ENVIRONMENTAL RESPONSE TRUST SITE HENDERSON, NEVADA



## **COMMUNITY INVOLVEMENT PLAN, REVISION 1**

#### 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

tindividually, but solely in his Signature sentative capacity as President of the Nevada Environmental Response Trust 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 3/30/16

Date:

# **COMMUNITY INVOLVEMENT PLAN, REVISION 1**

# 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.

3/28/2016

John M. Pekala, PG Senior Manager Date

Certified Environmental Manager Ramboll Environ US Corporation CEM Certificate Number: 2347 CEM Expiration Date: September 20, 2016

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# 1. OVERVIEW OF THE COMMUNITY INVOLVEMENT PLAN

This Community Involvement Plan (CIP) plan was developed for the community surrounding the following areas: 1) Nevada Environmental Response Trust (NERT or the Trust) Site (the "NERT Site"); 2) the NERT Remedial Investigation (RI) Study Area, which includes the NERT Site; and 3) the Nevada Division of Environmental Protection (NDEP) led investigation in the Downgradient Study Area ("Downgradient Study Area"). The NERT RI Study Area and the Downgradient Study Area are together referred to as "the Sites" in this CIP. The Trust developed this CIP to facilitate communication between the community, NDEP and the Trust, and to encourage community involvement in investigation and remediation activities. The Trust will utilize the community involvement activities outlined in this plan to ensure that the community is informed and provided opportunities for input.

This CIP addresses the relationship with the community, provides background information regarding the community, presents the Trust's and NDEP's community involvement programs, and provides a listing of resources available. The Trust drew upon several information sources to develop this plan, including input received from the community, public information, and Site files. The NDEP will oversee implementation of the community involvement activities outlined in this plan. The CIP will be utilized throughout completion of the corrective actions at the Sites. The CIP will be updated as necessary and, at a minimum, every three years.

This CIP was updated to include the NERT RI and Downgradient Study Areas. The previous version dated December 27, 2013 was developed only for the NERT Site.

# 2. SITE DESCRIPTION

# 2.1 NERT Site History

The NERT Site is located within the Black Mountain Industrial (BMI) complex, an industrial complex that has had operations since 1942. 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 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 U.S. 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. As part of this merger, boron production processes in California were moved to Henderson. In the early 1970s, the boron operations, which included the production of elemental boron, boron trichloride and boron tribromide, began at the NERT Site. 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 Corporation's name was changed 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. Tronox currently leases back a portion of the NERT Site from the Trust for production of manganese dioxide, boron trichloride, and elemental boron. Tronox also operates an Advanced Battery Material (ABM) production process on the NERT Site.

# 2.2 Description and Location

# 2.2.1 NERT Site

The NERT Site is approximately 346 acres (Figure 4) 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 of the City of Henderson (Figure 1).

The NERT Site is surrounded by industrial, commercial, and residential properties. The location of the NERT Site relative to surrounding industrial, commercial, and residential properties is provided on Figure 1. The NERT Site is generally rectangular, with certain interior portions of the property being owned and operated by other companies, specifically Lhoist, Western Area Power Administration (WAPA), Basic Management, Inc. (BMI), and Titanium Metals Corporation (TIMET). Facilities adjacent to the NERT Site include TIMET to the east, and Olin Chlor-Alkali (formerly known as [1] Pioneer Americas LLC; [2] Olin Chlor-Alkali/Stauffer/Syngenta/Montrose [OSSM]; and [3] Pioneer/Olin Chlor-Alkali/Stauffer/Syngenta/ Montrose [POSSM]) to the west. The Olin Chlor-Alkali

facility includes the former Stauffer and Montrose sites. BMI property is located mainly to the east of the NERT Site, although a BMI-owned Corrective Action Management Unit (CAMU) is located immediately to the west. Another facility, American Pacific Corporation (AMPAC), formerly Pacific Engineering and Production Company of Nevada (PEPCON), is located approximately 1.5 miles southwest of the NERT Site. The neighboring properties and their former property names are summarized in Table 1 and shown on Figure 2.

The nearest surface water 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.

The nearest residential communities are located approximately 1,365 feet north of the NERT Site property line and approximately 480 feet south (across Lake Mead Parkway) of the NERT Site property line as shown in Figure 1. The nearest health facility is located 0.65 miles to the east of the NERT Site.

#### 2.2.2 NERT Remedial Investigation Study Area

The NERT RI Study Area is approximately 1,407 acres. It includes the NERT Site and extends approximately 2.5 miles north-northeast of the NERT Site to the Las Vegas Wash (Figure 3).

The NERT RI Study Area is surrounded by industrial, commercial, and residential properties. The location of the NERT RI Study Area relative to surrounding land uses is provided on Figure 3.

# 2.2.3 Downgradient Study Area

The Downgradient Study Area is approximately 1,357 acres. The area extends along the Las Vegas Wash from near Duck Creek, west of the NERT RI Study Area to an area just upstream of Lake Las Vegas. It also encompasses an area east of the northern portion of the NERT RI Study Area, extending from Galleria Drive north to, and including, Las Vegas Wash (Figure 3).

The Downgradient Study Area is surrounded by residential properties and uninhabited sections of Las Vegas Wash. The location of the Downgradient Study Area relative to surrounding land uses is provided on Figure 3.

#### 2.3 NERT Site Inspections and Cleanup Activities

In response to 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. 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 Kerr-McGee in July 1981 to comply with the federal Resource Conservation and Recovery Act (RCRA) standards for monitoring the existing on-site impoundments. The following presents a summary of the events that followed the 1981 groundwater investigation.

- In December 1983, NDEP requested that Kerr-McGee investigate the extent of chromium impacts in the groundwater beneath the facility.
- A Consent Order between Kerr-McGee and NDEP, prepared in September 1986, stipulated additional groundwater characterization and the implementation of remedial activities to address chromium in the groundwater.
- 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, 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 (Basic Management, Inc., Tronox, Montrose Chemical Corporation, Pioneer Americas, LLC, TIMET, and Rhone-Poulenc Ag) 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, Kerr-McGee submitted the Phase I Environmental Conditions Assessment (Phase I ECA) to NDEP. 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.
- In 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.
- During the mid to late 1990s, Kerr-McGee collected additional data to fill the LOUidentified 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.
- In 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.
- In the late 1990s, an impact characterization and 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 groundwater treatment process began operation in November 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 were developed and installed for treatment of perchlorate.
- 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 groundwater treatment facility. These systems were installed by Kerr-McGee.
- In addition, 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 treatment system. The AWF, completed in 2002, consists of a series of 14 groundwater extraction wells at seven paired well locations that span roughly 1,200 feet of the alluvial paleochannels and pump from the shallow zone at a combined rate of approximately 280 gallons per minute. In 2006, a 15th standalone well, ART-9, began pumping to replace ART-6A after groundwater elevations dropped below a level where ART-6/6A could be effective. The groundwater extraction and treatment system (GWETS) has operated continuously at the NERT Site since 2002.
- The Trust currently operates the groundwater treatment facility, which includes the following primary unit operations: granular activated carbon, biological fluidized bed reactors, and a ferrous sulfate chemical precipitation system. Following treatment, all extracted water is discharged to Las Vegas Wash under a NPDES permit. Remedial performance reports are submitted semi-annually to the NDEP.
- In 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.
- In 2005, a Conceptual Site Model (CSM) was prepared for the NERT Site, which consolidated and evaluated information about known and potential environmental impacts.
- Based on data gaps identified in the investigation data 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 semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), asbestos, metals, organochlorine pesticides (OCPs), and perchlorate.
- 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:

- 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 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 so there was no excavation performed.

- In the May 28, 2010 Remedial Action Work Plan, 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 during 2010 and were completed in 2011 by the Trust.
- As of January 1, 2012, approximately 930,000 tons 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), Revision 2, dated July 17, 2015. 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.
- 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.

# 3. COMMUNITY BACKGROUND

# 3.1 Community Profile

The Sites are located in Henderson, Nevada, a suburban city in Clark County, Nevada, United States, within the Las Vegas metropolitan area of the Mojave Desert. The Sites occupy the southeast end of the Las Vegas Valley. The total land area of Henderson is 107.33 square miles with a population density of 2,585 persons per square mile.

Henderson is the second largest city in Nevada, after Las Vegas, with an estimated population of 277,440 in the 2014 estimate. This represents a 7.8 percent increase over the 2010 Census population. Census 2010 data show that Henderson is 76.9 percent White, 14.9 percent Hispanic, 7.2 percent Asian and 5.1 percent Black. The median household income was \$68,039 and 7.3 percent of the population lived below the poverty line. As of 2010, the unemployment rate was 13.8 percent; 22.6 percent of the Henderson population in 2010 was under 18, while 14.3 percent was 65 and older.

Henderson had 24,846 businesses as of the 2010 Census. In 2015, the largest 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 27 elementary schools, 10 junior high/middle schools, and 9 high schools. There are also more than 20 charter and private schools. With specific relevance to the NERT Site, 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.

There are 11 golf courses in Henderson, as well as 62 city parks on more than 1,300 acres. Henderson also boasts over 65 linear miles of walking and running trails. In regards to the Sites, three parks are located within the study area boundaries: Weston Hills Park, Henderson Bird Viewing Preserve, and Wells Park and Pool.

# 3.2 History of Community Involvement

A previous CIP was implemented for the NERT Site by Tronox, and the NDEP has maintained a public website (http://ndep.nv.gov/bmi/tronox.htm) with various siterelated documents and related information since 2006. Information repositories were also previously established for the NERT Site at a former City of Henderson public library and the NDEP Las Vegas and Carson City offices. Although the library was subsequently demolished, information and documents continued to be available at the NDEP Las Vegas office. In addition, NDEP has held several stakeholder meetings that were open to the public for interested community residents and local authorities, distributed fact sheets related to the NERT Site, and disseminated information regarding the NERT Site to the local newspapers.

A previous CIP was implemented for the NERT Site by the Trust on behalf of NDEP in 2013. In accordance with the 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. An online project document repository was developed in early 2015 and is accessible at <a href="http://www.nert-trust.com/">http://www.nert-trust.com/</a>. Computers are available to access the online project document repository, free of charge, for public use at the James I. Gibson Library and other Henderson area libraries. The 2013 CIP was developed based on input from community members located within a 1-mile radius of the NERT Site during community information and interview meetings. Input from the community was collected from returned community interview questionnaires provided in a mailing with a fact sheet and from questions asked during two Community Interview Meetings held on April 23, 2012. 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 A. The 2012 distribution area for the mailing is shown on Figure 5. The Community Interview Meeting presentations and sign-in sheets for the two April 23, 2012 meetings are included in Attachment B.

Updated fact sheets were mailed to community members located within a 1-mile radius of the NERT Site in May 2014 and January 2015. These fact sheets are included in Attachments C and D, respectively. The May 2014 and January 2015 distribution area is also shown on Figure 5.

An updated fact sheet with a community interview questionnaire, cover letter from NDEP, and Community Information & Interview Mailing notification flyer was mailed to community members and property owners located within a 1-mile radius of the Sites in July 2015<sup>1</sup> (Attachment E). The distribution boundary was expanded in some areas to include whole neighborhoods if a portion of the neighborhood fell within the 1-mile radius. This distribution area is the July 2015 Distribution Area outlined in purple on Figure 5. The documents were mailed to more than 8,800 people 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). NDEP held two Community Interview Meetings on September 2, 2015, one during the day and one in the evening. The Community Interview Meeting are included in Attachment F.

This CIP is developed based on information collected during the April 2012 and September 2015 community information and interview meetings discussed above. The Trust and NDEP have communicated developments related to the Sites and collected input from the community using the interview questionnaires and the Community Interview Meetings. This CIP and future community mailings will provide information about both the NERT RI Study Area and the Downgradient Study Area to all community members in both areas. This will provide a comprehensive distribution of information to the community.

The Trust and NDEP participate in calls with various water utility providers generally quarterly and on an as-needed basis. The Trust has also maintained open communications to interested parties such as the Henderson Industrial Community

<sup>&</sup>lt;sup>1</sup> 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.

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.

#### 3.3 Key Community Concerns

The following is a summary of key community concerns identified through community interviews completed via Community Interview Questionnaires and the public meetings held for the NERT RI Study Area on April 23, 2012 and both the NERT RI and Downgradient Study Areas on September 2, 2015. Concerns were generally similar for both the community areas. A response to frequently asked questions (FAQ) was compiled by NDEP for distribution to the community with the January 2016 fact sheet mailing and is provided in Attachment G.

- 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.
- Quality and safety of the residential drinking water.
- US EPA drinking water standards.
- Information regarding the contaminants of concern.
- The potential risk of contaminant migration to the surrounding community.
- Information regarding the fate and transport of chemicals from the Sites including the treatment processes employed by the existing groundwater treatment system.
- Information regarding the project schedule and the plan for future investigation and remediation work.
- Cost of remediation and who is paying for the cleanup.
- The responsibilities of the Trust and NDEP and their oversight responsibilities.
- Air quality and information regarding what chemicals may be released from the larger BMI complex site.
- Staining noted on sidewalks and property off-site believed to originate from the NERT Site or the larger BMI complex site.
- Potential deposition of impacted soil on adjacent properties, as well as health affects 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 the BMI complex air emissions.
- Sources and levels of perchlorate in groundwater.
- Remediation of other properties in the BMI complex.
- Location of historical and current documentation related to the Sites and remediation activities.
- Impacts of the contamination on property values and requirements for real estate disclosure.

#### 3.4 Summary of Communication Needs

NDEP, through the Trust will continue to provide updates to the public through mailings (including electronic mail) and public meetings. Mailings will include fact sheets (at least annually) and updates at critical stages of the project or as requested by the community. For example, the surrounding community will be informed when the remedial investigation (RI) has been completed and the report approved by the NDEP. Additionally, the Trust will continue to work closely with members of key stakeholder groups, including the Central Arizona Project, Metropolitan Water District of Southern California, Southern Nevada Water Authority, and the City of Henderson.

As required by Title 40 of the Code of Federal Regulations (CFR) Part 300, public meetings and public hearings will be held at project milestones such as publication of the RI and FS reports. Meetings will be held at times and places which, to the maximum extent feasible, facilitate attendance by the public. As with the previous Community Interview Meetings, more than one meeting may be held to facilitate public participation. Public meetings, which are less formal than public hearings, do not require formal presentations, scheduling of presentations and a record of proceedings. NDEP, through the Trust will issue public meeting notifications at least 30 days prior to scheduled meeting dates. Notifications will be sent to community members through community mailings. Notifications of public meetings will be made to the local media and service outlets listed in Appendix F, either by mail or email to the individual contact or media outlet.

# 4. THE TRUST'S COMMUNITY INVOLVEMENT PROGRAM

The overall goal of the Trust's community involvement program is to promote two-way communication between citizens and the Trust and NDEP and to provide opportunities for meaningful and active involvement by the community in 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; it addresses each issue that was identified as being important to the community. The identified issues include:

- Designate a Community Involvement Coordinator (CIC).
- Prepare and distribute fact sheets and technical summaries.
- Maintain a mailing list for the Sites.
- Establish and maintain information repositories.
- Place project-related information on the internet.
- Establish and maintain the Administrative Record.
- Hold public meetings or public availability sessions.
- 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 Sites. 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 Dotchin, Chief Environmental Programs, Bureau of Industrial Site Clean-up (BISC) of the NDEP. He will work closely with Allan DeLorme and John Pekala of Ramboll Environ, the Trust's technical leads for the NERT Site and the NERT RI Study Area, and Harry Van Den Berg of AECOM, the technical lead for the NDEP-led Downgradient Investigation, and the Trust.
- Timing: James Dotchin has officially been designated as the CIC since the previous CIP was approved in December 2013.

#### Prepare and distribute technical summary fact sheets

• Objective: To provide citizens with current, accurate, easy-to-read, easy-tounderstand information about the Sites.

- Method: Fact sheets will be mailed to parties on the mailing list following mailing list updates. In addition, copies will be available at the information repository and on the NDEP website for the NERT Site.
- Timing: NDEP, through the Trust, will prepare and distribute fact sheets at least once per year in the first quarter or more frequently, if appropriate, to communicate site activities.

#### Maintain a mailing list for the Sites

- Objective: To facilitate the distribution of site-specific information to everyone who needs or wants to be kept informed about the Sites.
- Method: NDEP, through the Trust, will create a mailing list that includes all residences adjacent to the Sites or in known or suspected paths of migration, as well as those other appropriate recipients.
- Timing: NDEP, through the Trust, will review and update the mailing list each year in the first quarter prior to the annual fact sheet distribution.

#### Establish and maintain Information Repositories

- Objective: To provide a convenient location where residents can go to read and copy official documents and other pertinent information about the Sites and associated investigations and remediation.
- Method: The repository is a reference collection of information containing the Administrative Record file and other site-specific information for the Sites. The NDEP will maintain a repository at the NDEP office in Las Vegas, and the local Information Repositories at the James I. Gibson Library on Lake Mead Parkway in Henderson, Nevada, and online at www.NERT-Trust.com. The online repository provides the public convenient access to the current and historic documents related to the NERT Site and associated investigations.
- Timing: During 2016, NDEP, through the Trust, will transition to an all online local Information Repository, replacing the James I. Gibson Library repository. The library has publically available internet access, free of charge, so people will be able to access the online repository from the library if they would like. The online repository contains the same information as the library repository. The online local Information Repository will be updated with documents prepared by the Trust within 30 days of their approval by NDEP.

#### Information about the Sites on the Internet

- Objective: To provide key resources for searching and listing both general and specific information about the Sites.
- Method: A Site Status Summary for the Sites can be found at http://ndep.nv.gov/bmi/tronox.htm.
- Timing: Site Status Summaries will be updated each year in the first quarter and as project milestones are reached.

#### Establish and maintain the Administrative Record

- Objective: To provide residents with documents, resources, etc. used by the Trust and the NDEP in reaching all decisions about the Sites and its cleanup.
- Method: NDEP will provide at least two sets of the Administrative Record for the Sites, one in the NDEP office in Las Vegas, Nevada, one located in the local Information Repository near the Sites, and/or on the online repository.
- Timing: The NDEP repository at the NDEP office in Las Vegas, the local Information Repositories at the James I. Gibson Library on Lake Mead Parkway in Henderson, Nevada, and online at www.NERT-Trust.com are complete. Documents prepared by the Trust will be added to the local repository within 30 days of their approval by NDEP.

#### Hold public meetings or public availability sessions

- Objective: To update the community on the Sites' developments and address community questions, concerns, ideas and comments.
- Method: NDEP, through the Trust will schedule, prepare for, and attend all announced meetings or availability sessions. At least 30 days notice of the scheduled meeting will be provided to the community through community mailings and media outlets. The CIC and other appropriate NDEP staff and representatives of the Trust will attend.
- Timing: Public availability sessions were held on April 23, 2012 and September 2, 2015 at the Henderson Convention Center, 200 South Water Street, Henderson, Nevada. NDEP will hold other public meetings as appropriate.

#### Contact with Local Media Outlets

- Objective: To provide information on public meetings to the public via local media outlets.
- Method: NDEP, through the Trust, will provide public meeting notifications to media outlets listed in Appendix F, 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.

#### Revise the CIP

- Objective: To identify and address community needs, issues, or concerns regarding the Sites 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.
- Timing: The Trust in cooperation with NDEP will revise the CIP as community input warrants or at least every three years until the Sites are closed out.

Activity	Time Frame
Designate CIC	James Dotchin will continue as the designated CIC
Prepare and distribute fact sheets and technical summaries	Initially in 2012 and distributed updates in May 2014, January 2015, July 2015, and January 2016. To be updated at least once per year in first quarter hereafter following mailing list updates
Maintain a mailing list for the Sites	Updated March 2012, July 2015, January 2016 and to be updated at least annually in the first quarter
Establish and maintain Information Repositories	Established at NDEP in Las Vegas, Nevada, the James I. Gibson Library in Henderson, NV, and online at www.NERT-Trust.com
Provide information about the Sites on the Internet	Reviewed each year in the first quarter and updated as needed as project milestones are reached. Online local Information Repository updated with documents prepared by the Trust within 30 days of their approval by NDEP.
Establish and maintain Administrative Record	Established at NDEP offices in Las Vegas, Nevada, the James I. Gibson Library in Henderson, NV, and online at www.NERT- Trust.com
Hold public meetings or availability sessions	As needed
Contact with local media outlets	At least 30 days prior to scheduled public meetings
Revise the CIP	As needed, but no less frequent than every 3 years until the completion of corrective actions at the Sites

# 4.2 Time Frame Summary for Community Involvement Activities

TABLE

# Table 1. SUMMARY OF NEIGHBORING PROPERTIES

# Nevada Environmental Response Trust Site; Henderson, Nevada

PROPERTY	LOCATION
American Pacific Corporation (AMPAC) formerly Pacific Engineering and Production Company of Nevada (PEPCON)	This property is located 1.5 miles southwest of the Site.
Black Mountain Industrial (BMI) Common Areas includes the following Eastside Sub-Areas: Hook-Open Space, Southern RIBs, Galleria North School Site, Galleria Alignment, Sunset North Commercial, Phase I Development, City of Henderson Water Reclamation Facility, Eastside Main, Mohawk, Parcels 4A and 4B, ditches, and various flood conveyance channels. The ditches in this area include: the Western Ditch and the Northwest Ditch in the Hook-Open Space, and the Alpha Ditch and the Beta Ditch througout the area. The following CAMU Sub-Areas include: Eastern W. Ditch, Northern Landfill Lobe, Northern Lobe of the Borrow Area, Slit Trench Area, Southern Landfill Lobe, Southern Lobe of the Borrow Area, and Western W. Ditch. The Northern Landfill Lobe and the Southern Landfill Lobe combined are referred to as the historical BMI Dump. The ditches and conveyances in this area include: the Beta Ditch Extension, the Western Ditch, and the Western Ditch Extension.	The Eastside Sub-Areas are located east of the Site across the Boulder Highway. The CAMU Sub-Areas are located adjacent to the west of the Site and north of the Olin property. The flood conveyance channels are located around the perimeters of the Eastside Sub-Areas, and the ditches are located throughout the Eastside and CAMU Sub-Areas.
Lhoist North America (Lhoist) formerly Chemstar Lime Company of Nevada and Chemstar, Inc.	This property is located in the center of the Site north of Unit Buildings 3 and 4.
Olin Chlor-Alkali Products (Olin) formerly Pioneer Americas LLC which was referred to as Pioneer Americas/Olin Chlor Alkali/Stauffer Management Company/Syngenta Crop Protection, Inc./Montrose Chemical Corporation of California (POSSM and OSSM). The Beta Ditch Extension extends into this property from the Site.	This property is located adjacent to the west of the Site and south of the BMI CAMU Sub-Areas.
Titanium Metals Corporation (TIMET) includes the BMI Beta/Northwest Ditch.	This property is located adjacent to the east of the Site. There is a small portion of the property that is located to the west of the Site, north of Parcel F.
Western Area Power Administration (WAPA)	This property is located south of Unit Buildings 1 through 6, east of Parcel G, and north of Parcel H.
Notes:	•

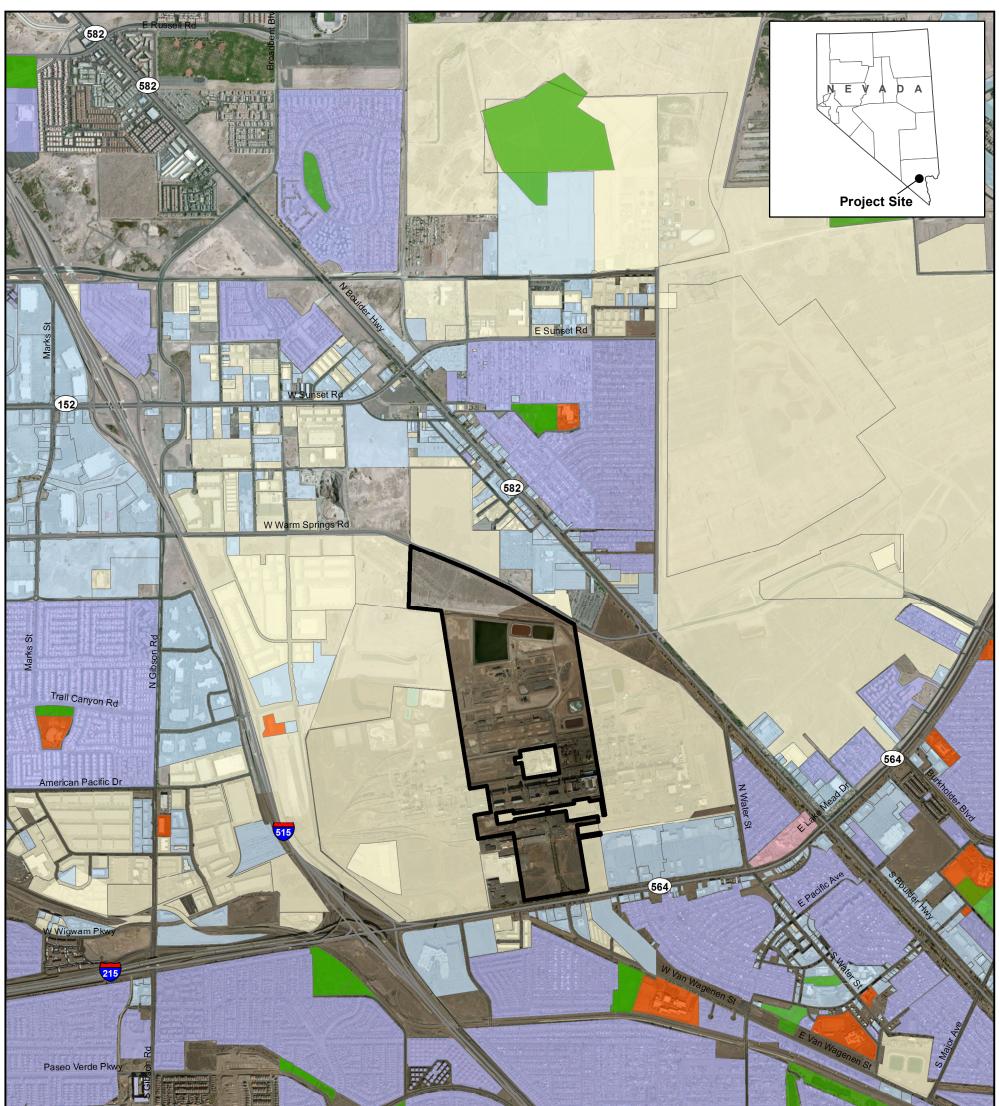
Notes:

CAMU = Corrective Action Management Unit

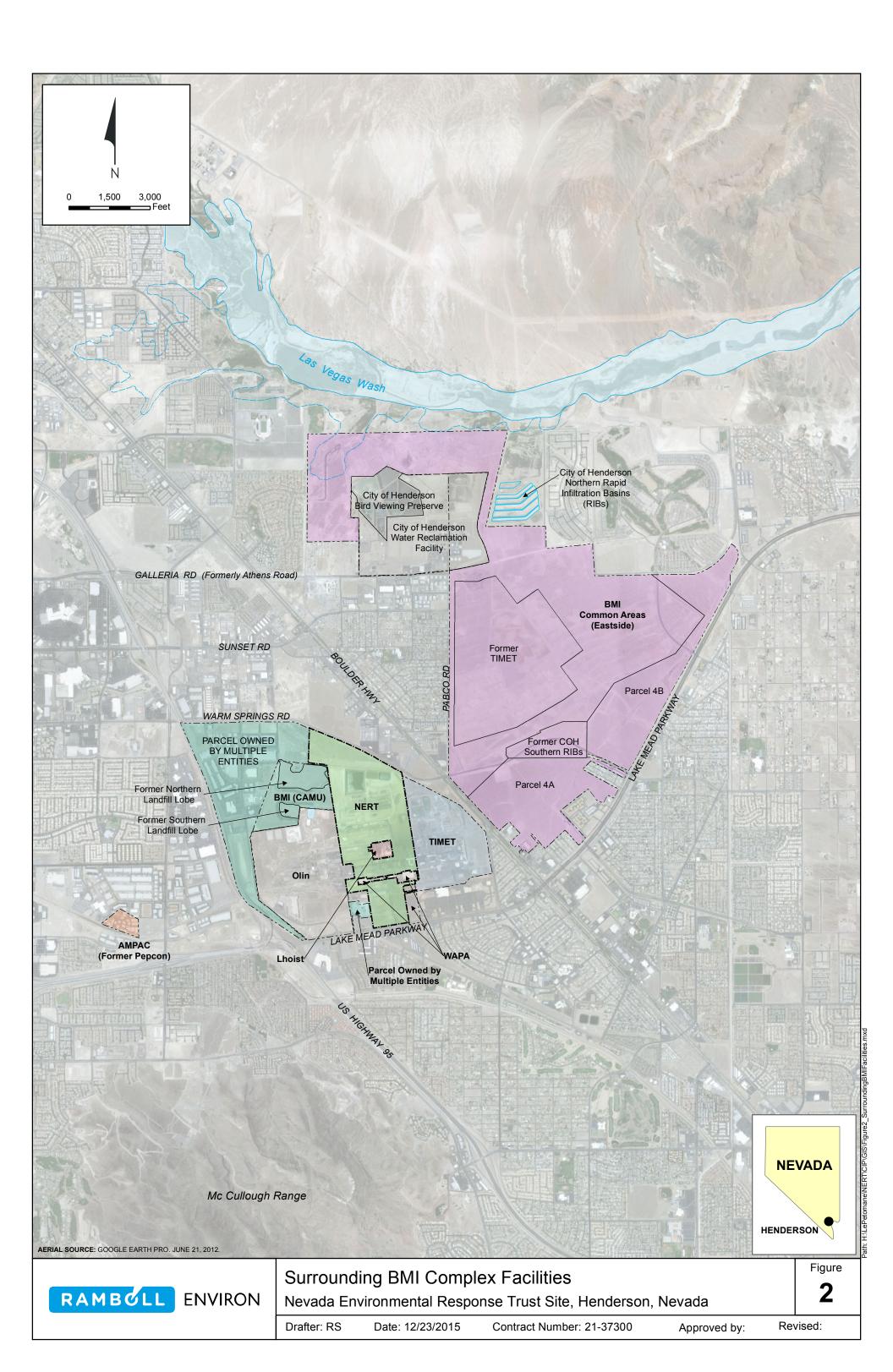
RIB = Rapid Infiltration Basin

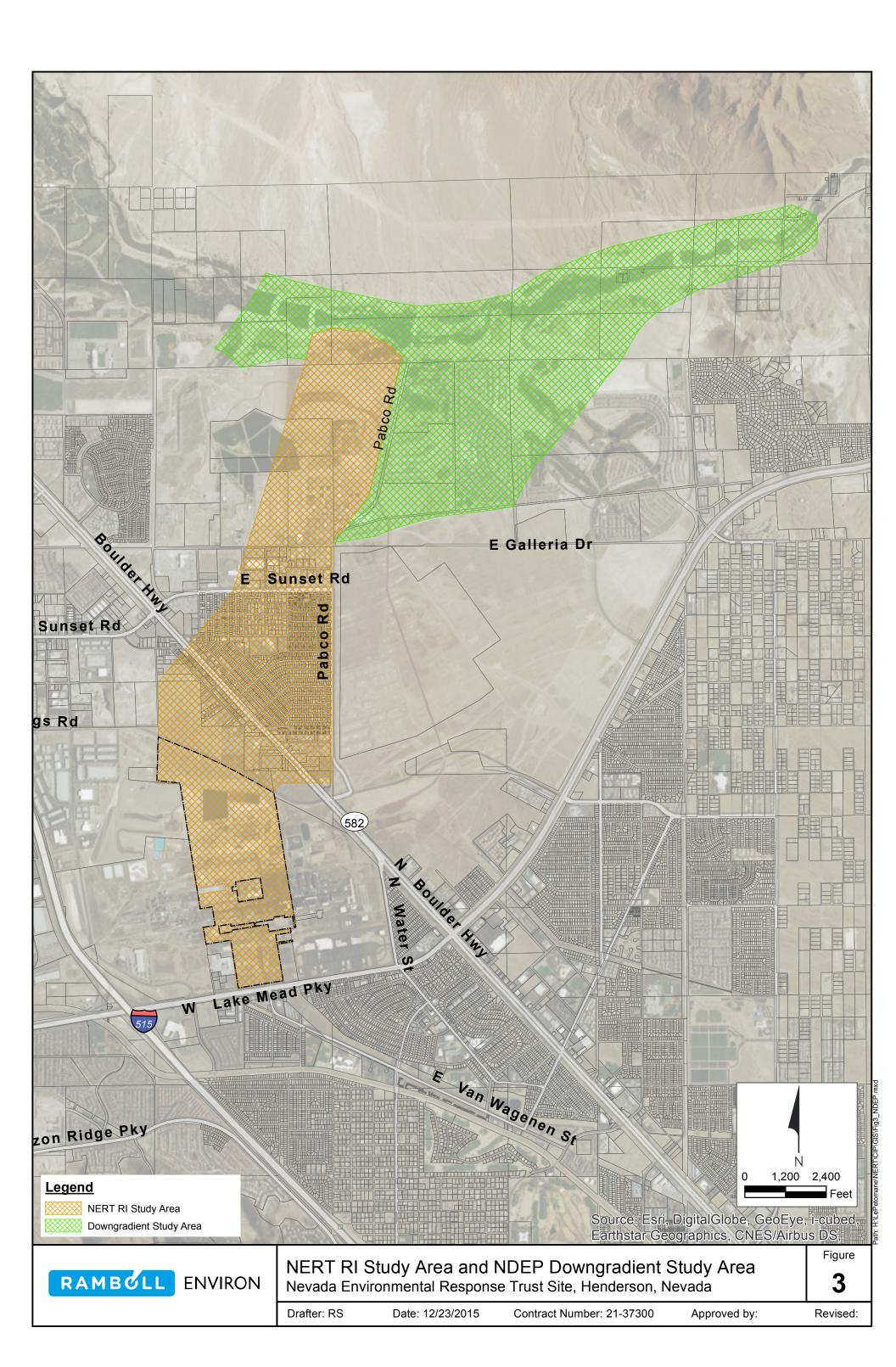
Site = Nevada Environmental Response Trust Site

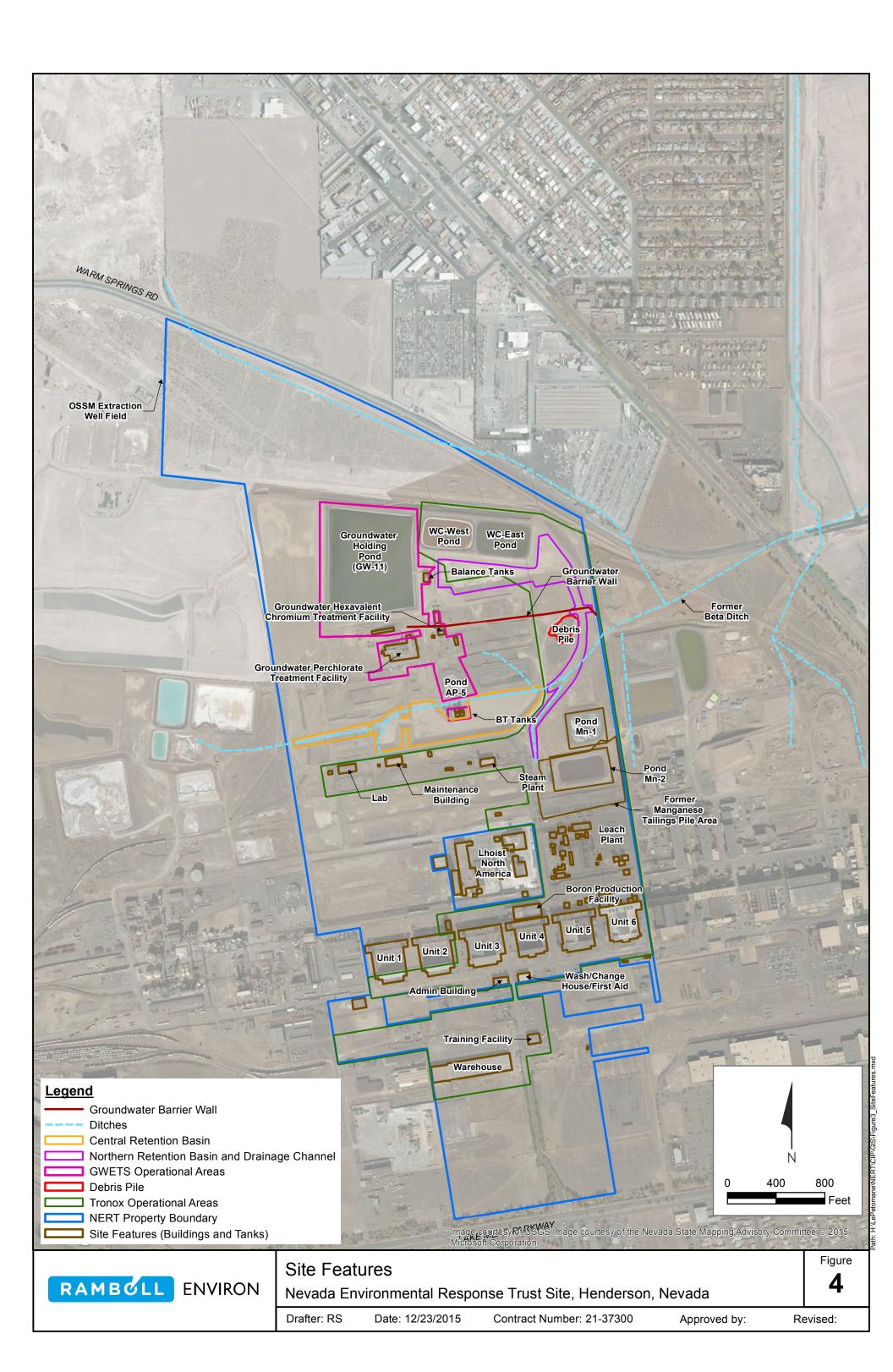
FIGURES

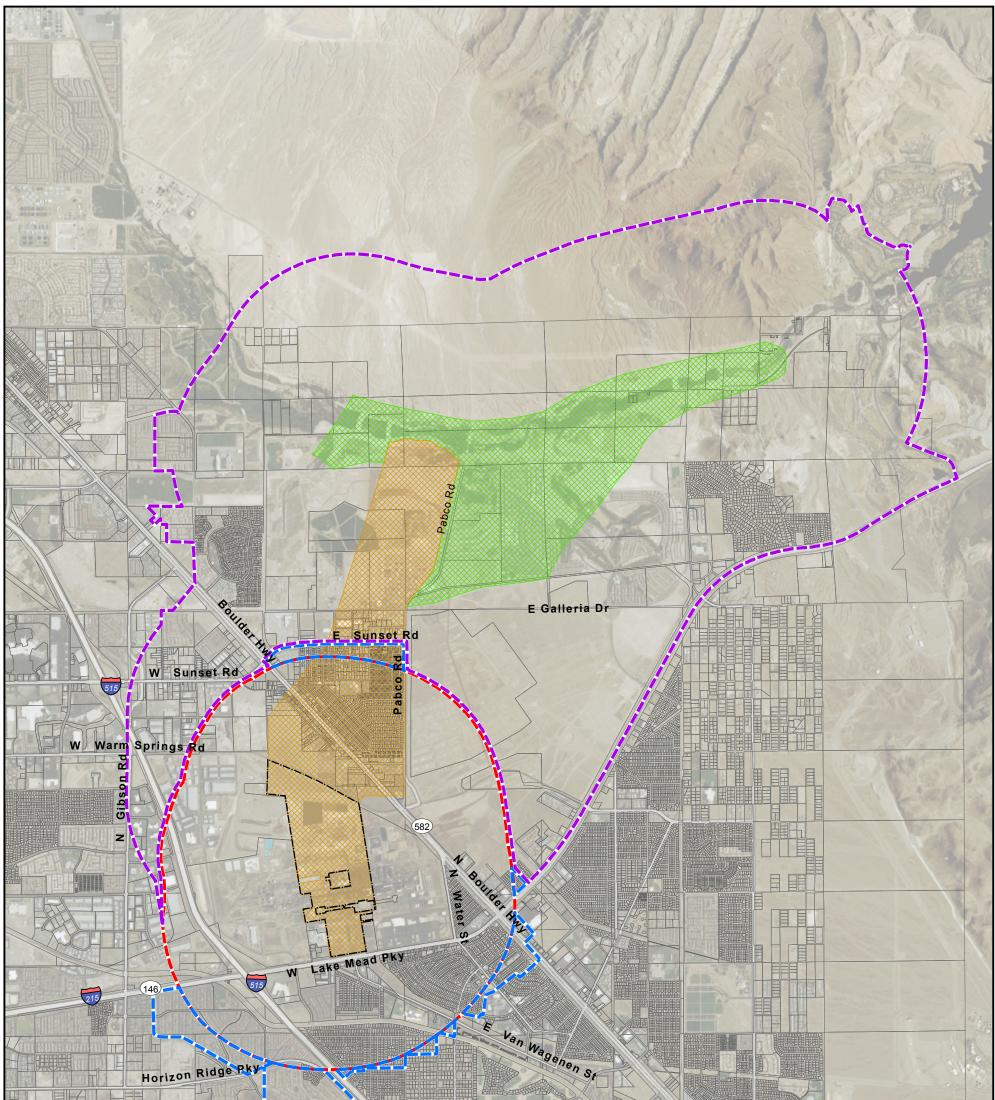


Legend		2
NERT Property Boundary	lotto A	
Existing Land Use	M PE	E E
Commercial		
	A A A A A A A A A A A A A A A A A A A	
Health Facility		E Horizon
Industrial	NHorzer Di	N N
Industrial Park	The second	N 0 1,000 2,000
Industrial Park Residential	The second	0 1,000 2,000
Industrial Park	Image courtesy of USGS Image courtesy-of the Nevada State	0 1,000 2,000
Industrial Park Residential	Intervention Map	0 1,000 2,000









	NFia5 NDEP-r
	Feet
NERT Site Community Involvement Mailing List Distribution Areas Nevada Environmental Response Trust Site, Henderson, Nevada	Figure 5 Revised:
P	Area Source: Esri, DigitalGlobe, GeoEye, I-cubed, Earthstar Geographics, CNES/Airbus DS AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community NERT Site Community Involvement Mailing List Distribution Areas

APPENDIX A NDEP AND NERT CONTACTS

#### Appendix A NDEP and NERT Contacts

#### <u>NDEP</u>

James 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 Phone: (702) 486-2850 x235

Weiquan Dong, P.E. Professional Engineering Specialist Bureau of Industrial Site Clean-up Nevada Division of Environmental Protection 2030 E. Flamingo Rd., Suite 230 Las Vegas, NV 89119 Phone: (702) 486-2850 x252

Carlton Parker Environmental Scientist Bureau of Industrial Site Clean-up Nevada Division of Environmental Protection 2030 E. Flamingo Rd., Suite 230 Las Vegas, NV 89119 Phone: (702) 486-2850 x228

#### <u>NERT</u>

Jay A. Steinberg, not individually, but solely as President of the Nevada Environmental Response Trust Trustee 35 East Wacker Drive - Suite 1550 Chicago, Illinois 60601 Phone: (312) 505-2688

Andrew Steinberg Vice President, Le Petomane, Inc. Agent for Nevada Environmental Response Trust 35 East Wacker Drive - Suite 1550 Chicago, Illinois 60601 Phone: (312) 498-2800

Stephen R. Clough, P.G. Remediation Director Nevada Environmental Response Trust 510 S. Fourth Street Henderson, NV 89015 Phone: (702) 686-9611

Allan J. DeLorme, P.E. Principal Ramboll Environ US Corporation 2200 Powell Street, Suite 700 Emeryville, CA 94608 Phone: (510) 420-2565

John Pekala Senior Manager Ramboll Environ US Corporation 2111 E. Highland Ave. #412 Phoenix, AZ 85016 Phone: (602) 734-7710 APPENDIX B LOCAL OFFICIALS

#### Appendix B Local Officials

Mayor Andy A. Hafen Telephone (702) 267-2406

City Council Members Council Ward I – Gerri Schroder Council Ward II – Debra March Council Ward III – John F. Marz Council IV – Sam Bateman City Council Offices (702) 267-2085 Southern Nevada Health District P.O. Box 3902 Las Vegas, NV 89127 Telephone (702) 759-1000

Fire Department Telephone (702) 267-2222

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

## Appendix C State Officials

#### **Governor Brian Sandoval**

R-(4-year term expires in 2018) 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 Mark Hutchison

R-(4-year term expires in 2018) 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 Steve Sisolak

D-District A (4-year term expires in 2016) 500 Grand Central Parkway, 6th Floor Las Vegas, NV 89106 (702) 455-3500 (o) (702) 383-6041 (f) ccdista@co.clark.nv.us www.accessclarkcounty.com/depts/countycom missioners/districta/Pages/default.aspx

# Clark County Commissioner Mary Beth Scow

D-District G (4-year term expires in 2018) 500 Grand Central Parkway, 6th Floor Las Vegas, NV 89106 (702) 455-3500 (o) (702) 383-6041 (f) ccdistg@co.clark.nv.us www.accessclarkcounty.com/depts/countycom missioners/districtg/Pages/default.aspx APPENDIX D FEDERAL ELECTED OFFICIALS

#### Appendix D Federal Elected Officials

## U.S. Senator Harry Reid

D-Nevada (6-year term expires in 2017) Lloyd George Federal Building 333 S. Las Vegas Blvd., Suite 8016 Las Vegas, NV 89101 (702) 388-5020 (o) (702) 388-5030 (f)

522 Hart Senate Office Building Washington, DC 20510 (202) 224-3542 (o) (202) 224-7327 (f) www.reid.senate.gov

# U.S. Senator Dean Heller

R-Nevada (6-year term expires in 2019) 8930 West Sunset Rd., Suite 230 Las Vegas, NV 89148 (702) 388-6605 (o) (702) 388-6501 (f)

324 Hart Senate Building Washington, DC 20510 (202) 224-6244 (o) (202) 228-6753 (f) http://heller.senate.gov

# U.S. Representative Dina Titus

D-Nevada District 1 (2-year term expires in 2016) 550 East Charleston Blvd. Suite B Las Vegas, NV 89104 (702) 220-9823 (o) (702) 220-9841 (f)

401 Cannon House Office Building Washington, DC 20515 (202) 225-5965 (o) (202) 225-3119 (f) (877) 409-2488 toll free http://titus.house.gov

## U.S. Representative Mark Amodei

R-Nevada District 2 (2-year term expires in 2016) 5310 Kietzke Lane, Suite 103 Las Vegas, NV 89511 (775) 686-5760 (o) (775) 686-5711 (f)

222 Cannon House Office Building Washington, DC 20515 (202) 225-6155 (o) (202) 225-5679 (f) http:/amodei.house.gov

# U.S. Representative Joe Heck

R-Nevada District 3 (2-year term expires in 2016) 8872 S. Eastern Ave., Suite 220 Las Vegas, NV 89123 (702) 387-4941 (o) (702) 837-0728 (f)

132 Cannon HOB Washington, DC 20515 (202) 225-3252 (o) (202) 225-2185 (f)

# U.S. Representative Cresent Hardy

D-Nevada District 4 (2-year term expires in 2016) 2250 Las Vegas Blvd North, Suite 500 North Las Vegas, NV 89030 (702) 912-1634 (o) (702) 476-0911 (f)

430 Cannon House Office Building Washington, DC 20515 (202) 225-9894 (o) (202) 225-9783 (f) https://hardy.house.gov/ APPENDIX E REPOSITORY LOCATIONS

### Appendix E Repository Locations

### Local Repositories

Nevada Division of Environmental Protection 2030 E. Flamingo Rd. Suite 230 Las Vegas NV 89119

The on-line document repository can be accessed, free of charge, using computers located at Henderson, Nevada public libraries, including the following library located near the NERT Site: James I. Gibson Library 100 W Lake Mead Parkway

Henderson, NV 89015

**On-line Repository** 

www.NERT-Trust.com

APPENDIX F LOCAL MEDIA CONTACTS

### Appendix F Local Media Contacts

#### **Newspapers**

### Las Vegas Review Journal

1111 W. Bonanza Road P.O. Box 70 Las Vegas, NV 89125 (702) 382-7800

Henry Brean, Environmental Reporter hbrean@reviewjournal.com (702) 383-0350

Lisa Valentine, Editor Ivalentine@viewnes.com 702-383-0264

For advertisement inquiries: adhelp@reviewjournal.com

### **Henderson View**

(Las Vegas Review Journal local insert) hendersonview@viewnews.com

Lisa Valentine, Editor Ivalentine@viewnews.com (702) 380-4545

### Las Vegas Sun

2360 Corporate Circle, Third Floor Henderson, NV 89074 metroeditors@lasvegassun.com (702) 385-3111

Ricardo Torres, Public Safety Reporter (702) 259-2330

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

Michelle Rindels, Reporter mrindels@ap.org (702) 382-7440

### El Mundo (Spanish Language)

760 North Eastern Ave. Suite 110 Las Vegas, Nevada 89101 (702) 649-8553

Eddie Escobar, Jr., Publisher eddiejr@elmundo.net (702) 524-6994

For advertising inquiries: advertising@elmundo.net

### Radio Stations

### **KQLL 1280 AM**

150 Spectrum Blvd. Las Vegas, NV 89101 (702) 258-0285

### KOAS 850 AM, KKLZ 96.3 FM, KCYE 102.7 FM, and KVGS 107.9 FM

Beasley Broadcasting Group John Shaffer News Director (702) 730-0389 email@bbgi.com john.shaffer@kdwn.com

### KBAD 920 AM, KENO 1460 AM, KWWN 1100 AM, KOMP 92.3 FM, and KXPT 97.1 FM

Lotus Southern 8755 West Flamingo Las Vegas, NV 89147 Andy Kaye News and Public Affairs Director (702) 876-1460 andy@komp.com

### KCEP 88.1 FM

Public Radio James Embree (702) 648-0104 james@kcepfm.com

### KNPR 88.9 FM

Public Broadcasting Adam Burke News Director (702) 258-9895 phil@knpr.org adam@knpr.org

### KSOS 90.5 FM

Christian Radio Scott Herrold (702) 731-5452 scott@sosradio.net

### KRRN 92.7 FM and KQRT 105.1 FM

Entravision Holdings Adriana Arevalo News Director (702) 507-1003 aarevalo@entravision.com

### KUNV 91.5 FM

Public Radio 4505 South Maryland Parkway PO Box 452010 Las Vegas, NV 89154 Dave Nourse Ops Manager (702) 895-0063 dave.nourse@kunv.org

### dave.nourse@unlv.edu

Kylie O'Rourke Community Partnership Manager (702) 895-0063 kylie.kunv@gmail.com

### KMXB 94.1 FM

7255 South Tenaya Way, Suite 100 Las Vegas, NV 89113 (702) 257-9400

#### **KWNR 95.5 FM**

2880 Meade Ave, Suite 250 Las Vegas, NV 89102 (702) 238-7300

### **KXNT 100.5 FM**

CBS Radio 7255 South Tenaya Way, Suite 100 Las Vegas, NV 89113 (702) 889-7300 Nathan Tannenbaum News Anchor (702) 889-7376 nathan.tannenbaum@cbsradio.com mailbox-news@kxnt.com

### **CSN Streamin' Radio**

College Southern Nevada Sort Code WCC 151 6375 West Charleston Boulevard Las Vegas, NV 89146-1164 Andrew Kolb Radio Production Supervisor (702) 651-5886 andrew.kolb@csn.edu

### **Television Stations**

### **KVVU-TV FOX5**

25 TV5 Dr. Henderson, NV 89014 Editors/News Desk (702) 435-5555 5newsdesk@fox5vegas.com

### **KTNV Channel 13 Action News**

3355 S. Valley View Blvd. Las Vegas, NV 89102 Beth Fisher News Desk (702) 876-1313 beth.fisher@ktnv.com

### KSNV Channel 3

1500 Formaster Lane Las Vegas, NV 89101 Joyce Kotnik Assignment Manager 702-657-3150 news3@mynews3.com

### **KLAS Channel 8**

3228 Channel 8 Drive Las Vegas 89109 Dennis Neuhausel Assignment Desk 702-792- 8870 dneuhausel@8newsnow.com

#### **KBLR Channel 40**

Telemundo Paradise, NV Abel Ortiz Reporter 702-388-3200 abel.ortiz@nbcuni.com

#### KVCW Channel 33, KVMY Channel 21

1500 Foremaster Lane Las Vegas, NV 89101 David Clevidence Creative Service Director 702-382-2121 dclevide@sbgtv.com ATTACHMENT A 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.

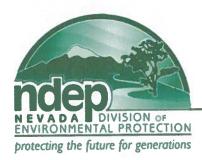
Thank you for your time and we look forward to seeing you at one of the Community Information and Interview Meetings on April 23, 2012 scheduled at 4:00 pm and again at 7:00 pm at the Henderson Convention Center. If you are unable to attend either of the Community Information and Interview Meetings, 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 <u>Nevada Environmental Response Trust Site</u> (formerly known as the Tronox Site and Kerr McGee Site)

Date of Meeting:April 23, 2012Times:4:00 pm and 7:00 pmMeeting Location:Henderson Convention Center<br/>200 South Water Street<br/>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



### Site Location

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



Air Photo of Tronox LLC Site

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, 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

### Fact Sheet, Page 4

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

### 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?

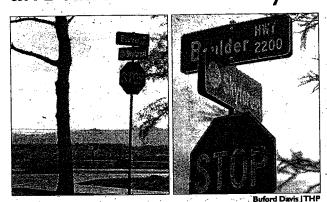
4. You are free to respond anonymously, however, if you would like to be contacted directly, please provide your name, address, phone number and e-mail address, if applicable.

### The Henderson Press

### Police/Fire

April 19-April 25, 2012 • Page

### Suicide suspected in death of man hit and killed on roadway been talking to some people in



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

headed southbound on North

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.



COMPLIMENTARY ADMISSION

#### derson 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.

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VIEW

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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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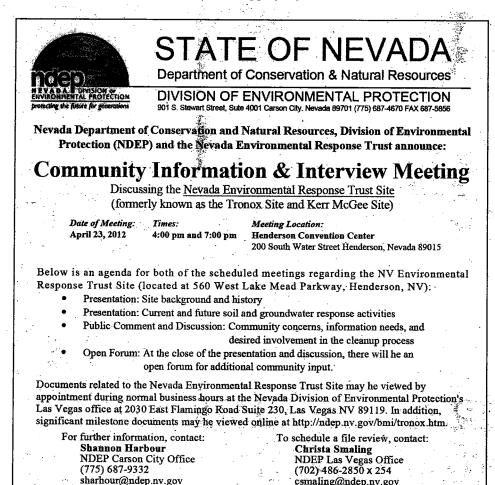
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Vol. 3, No. 13

### 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



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.



### See our ad on page 7



### Obama pushes solar at **Boulder** City stop



Courtesy of Sempra U.S. Gas & Po

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."

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

### 3

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### 5

Reshaping downtownrevitalization plans set

Convicted veterans get help through new court program geared toward

### 10

**Regis University aims** help build workforce

show slow growth

### 

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

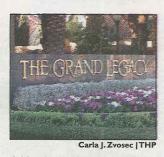
Editor

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.



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.



merce Department placed tariffs on solar panel imports from China, which Obama

A day earlier, the U.S. Com-



### Area Crime Map

### Police Blotter-March 12 through March 18

### BURGLARY

500 Block, Marks Street 800 Block, Rising Star Drive 40 Block, Quail Hollow Drive 100 Block, Cloud Cover Avenue 2200 Block, Sardis Terrace 2600 Block, La Boutique Street 200 Block, Gold Street

### ROBBERY

500 Block, Marks Street 700 Block, Marks Street 1200 Block, West Warm Springs Road 1500 Block, West Warm Springs Road 100 Block, North Gibson Road 900 Block, American Pacific Drive

### 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

### SEXUAL ASSAULT

70 Block, Dow Jones Street 2900 Block, Sunridge Heights Parkway 700 Block, Skipjack Drive

### **VEHICLE THEFT**

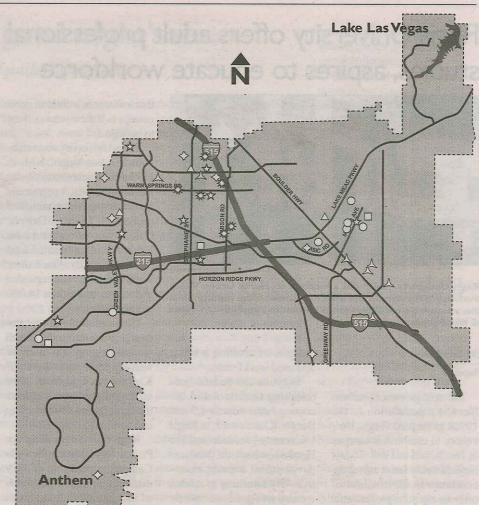
1300 Block, West Sunset Road 900 Block, High Plains Drive 500 Block, Lariat Lane 800 Block, Golden Plata Court 1300 Block, S Boulder Highway 700 Block, South Racetrack Road 500 Block, Silent Siesta Drive

### DOMESTIC DISTURBANCE

20 Block, East Texas Avenue 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

### 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



Locations are approximate. Courtesy of the Henderson Police Department.



STATE OF NEVADA Department of Conservation & Natural Resources

DIVISION OF ENVIRONMENTAL PROTECTION 001 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: Times: April 23, 2012 4:00 pm and 7:00 pm

Meeting Location **Henderson Convention Center** 200 South Water Street Henderson, Nevada 89015

view, contact:

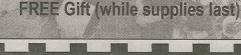
Below is an agenda for both of the scheduled meetings regarding the NV Environmental Response Trust Site (located at 560 West Lake Mead Parkway, Henderson, NV):

- 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 he an open forum for additional community input.

Documents related to the Nevada Environmental Response Trust Site may he 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 he viewed online at http://ndep.nv.gov/bmi/tronox.htm.

or further information, contact:	To schedule a file review, cor
Shannon Harbour	Christa Smaling
NDEP Carson City Office	NDEP Las Vegas Office
(775) 687-9332	(702) 486-2850 x 254
sharhour@ndep.nv.gov	csmaling@ndep.nv.gov

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## 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.

NEVADA'S LARGEST NEWSPAPER

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.

#### 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!' 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



A formaia auditor who stud

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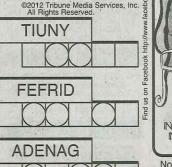
REWARD! No questions asked for the safe return of valuable jewelry, black box with all doc-uments contained intact. Louis Vuitton items, medals, coin collections removed from. Sun City Summerlin residence between 2/23-2/24/12. Call 340-277-1078

Public Announcements

Healthcare Preparatory Institute, LLC, located at 5831 W. Craig Road, Suite 102, Las Vegas, NV 89130, is applying for initial accredita-tion with the Commission of the Council on Occupational Education and persons wishing to make comments should write to: Executive Director, Commission of the Council on Occupational Education, 7840 Roswell Road, Bldg 300, Suite 325, Atlanta, GA 30350 or submit their comments via the Council website ' (www.council.org). Persons making comment should provide their names and mailing addresses.

Mailing addresses. U.S. Marshal Sale District of NV. Auction At 2024 Losee Rd, N. Las Vegas Vehicles sold "AS IS / WHERE IS" and is subject to a minimum Bid Auction 3/29/12 - 6PM Viewing 3/29/12 from 9AM 2000 KENWORTH T. 2000 TRACTOR 2005 OWENS CLASSIC BOX TRAILER

MBLE Unscramble these four Jumbles, one letter to each square to form four ordinary words PIENT



Answer:

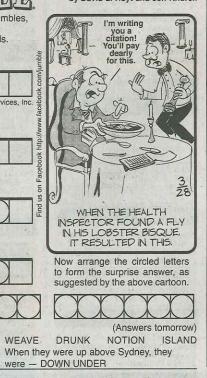
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8:30am-9:40am Choose only one subject for your first session:

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9:50am-10:50am Choose only one subject for your second session: My Skills, My Future Interviewing: What to Bring, What to Say, What to Ask

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ATTACHMENT B 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

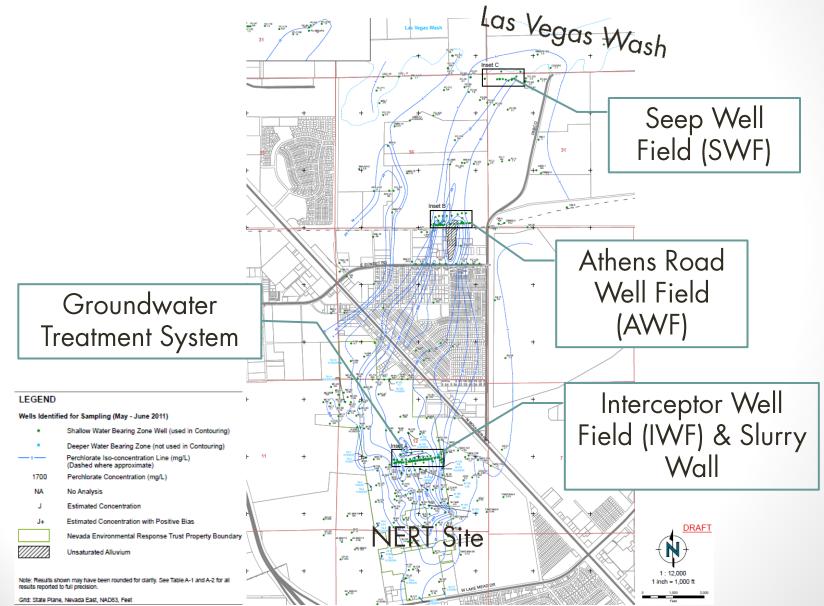


- 407,072 tons of clean imported backfill placed
- Site Grading
- Site Restoration

## 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



## 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**

	Name	Address	Phone Number	Email Address	Do you want to receive information in the future?
	Andrea Soriman	1540 Pala St , Nend.	(700)767-2843	Andrea NV@ COXONEY	l'es
	Gary Miller	Duph Air duality	702-455-5188	millerg Celotant	иО
	John Holmstrom	1118 Fan Edvardo	465-6703	john-holmstrom, trano,	1-ro- Yes
	Steve Tyahle	75 Hautheme St. SF	(415)972-3466	tyahla. styhena e	pa, gev
		(	Henderson NV 89015	Anna-Hestevesto cox	net yes
2	Emports	211 Denver Liby	Henderson NV32	rodecnana @hotmail	icon Ves
		638 W. Victory	702-450-5949	janelcothevisiggrou	p.net'
ability	Max States	560 W- Lake Merd.			10
chalde		288 Pastel Cloud	152-575-3339		
	JOHN BAQUEII	416 PERCITE ST	565-4984		?
	StephanneZim	Nerman 875W. Warm Sp	rings food 567 04	szimmernanb' o landwello.com	Ye-s
	TY Salaza	4560 Warder (r. Huis	v	tsalazare losonoma	yes
	Ed Hall	611 Buchaman Ave.	(702) 565-7321		Yes

Name	Address	Phone Number	Email Address	Do you want to receive information in the future?
Phondy A /lea	217 fismark	370_0385		Jes
AimWinings	217 Bismerk Way	317- <u>439-6</u> 331		Ves
Shelley Jones	516 Inness Aue		SJONES4C40 90 yoh	10 yes
LEEFACER	217 Bismark Way 516 Inness Aue 875 W. WARR Spins	7025670400	FARRISCHWALTLOGIC	0
	164 Viento Del Montagha A		cw6830@msn.cm	yes

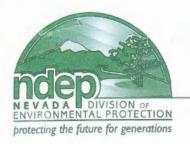
	Name	Address	Phone Number	Email Address	Do you want to receive information in the future?
	Laverne Tinker	217 Bismork Way Tronox Tronox	564-6202		Yes
	MikeSkromyda	Tronox	·		
	Scott Haigh	Tronox			
P					
	2.3 41/15	2 Children -			

	Name	Address	Phone Number	Email Address	Do you want to receive information in the future?
	Victoria ada	Henderson 89015	558-5099	Dernbargmail Om	Yes
	STEVE	138 CAMINO CAPPI 89012		PLANE WARCR C HOTMAIL COM	YES
2	Robert Rynda Mary Spees	96 Wayon Box Rd	566 - 9905	bikerand hikere hotmaile	cm yes
	Charlene Blac	K 147W. VictoryR	1 564-1492	cbpls@embarg.ma	I cam yes
	,	- 1601 Athal Are	564-17453		/
2	Carly & David Hel	1 281 Lessica Grove ST 89015	405-0715	carlyheld O gradite	om yes

11 ADULTS + 1 CHILD @ 7:00 Pm mtg

Name	Address	Phone Number	Email Address	Do you want to receive information in the future?
LAURES ADAM	BGAL COOLIDGE AUE.	703-275-1944	incations interain	et yes
L. DAHLE	420ZIRCONIUM	702-568-6726	SMDIZIQUAR.com	YFES
Calvin Block	420 ZIRCONIUM 147 Victory Rd.	762-564-14912		YES.

ATTACHMENT C 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.

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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 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



Site Location

("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 (<u>http://ndep.nv.gov/bmi/tronox.htm</u>).

ATTACHMENT D JANUARY 2015 COMMUNITY INFORMATION DOCUMENTS PROVIDED IN MAILING



STATE OF NEVADA

Department of Conservation & Natural Resources

Brian Sandoval, Governor

Leo M. Drozdoff, P.E., Director

DIVISION OF ENVIRONMENTAL PROTECTION

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)

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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

Printed on recycled paper

## Nevada Environmental Response Trust Site Fact Sheet

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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 (<u>https://ndep.nv.gov/bmi/tronox.htm</u>).

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



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

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 ongoing 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,

mula

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



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

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, 2015Times:4:00 pm and 7:00 pmMeeting Location:Henderson Convention Center<br/>200 South Water Street<br/>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:To schedule a file review, contact:James (JD) DotchinChrista SmalingNDEP Las Vegas OfficeNDEP Las Vegas Office(702) 486-2850 x 235(702) 486-2850 x 254jdotchin@ndep.nv.govcsmaling@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



SITE LOCATION

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.

#### **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.

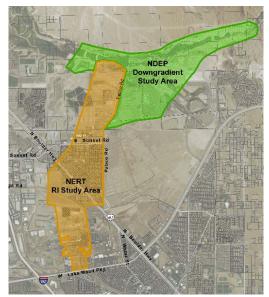
As of January 1, 2012, approximately 930,000 tons of contaminated soil had been excavated. An interim soil removal action completion report was prepared in January 2012 and revised in September 2012. Certain impacted soils within the remediation zones that could not be excavated due to physical constraints 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 <u>http://www.nert-trust.com/</u>, 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 (<u>https://ndep.nv.gov/bmi/tronox.htm</u>).

#### **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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#### NOTICE OF COMMUNITY INFORMATION AND INTERVIEW MEETING The Nevada Department of Conservation

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and Natural Resources, Division of Environmental Protection (NDEP) will discuss the NDEP Downgradient Investigation related to the Nevada Environ-mental Response Trust (NERT) Site (Formerly known as the Tronox Site and Kerr-McGee Site) on September 2, 2015 at

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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, csmaling@ndep.nv.gov.

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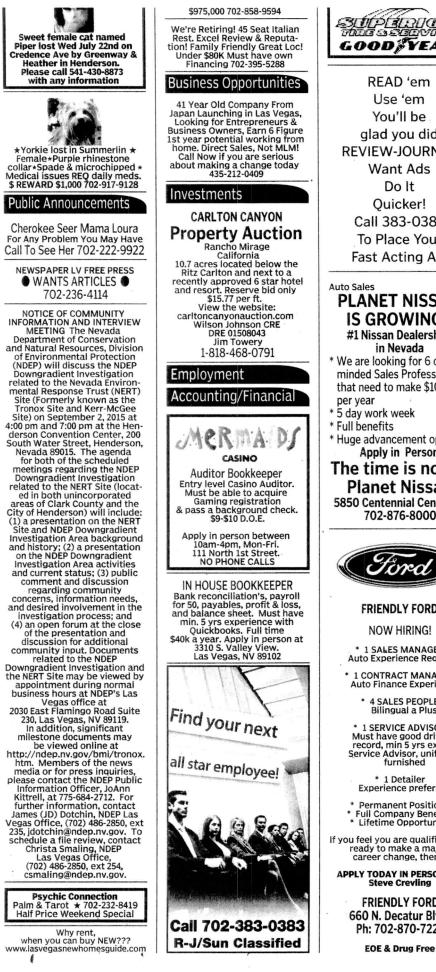
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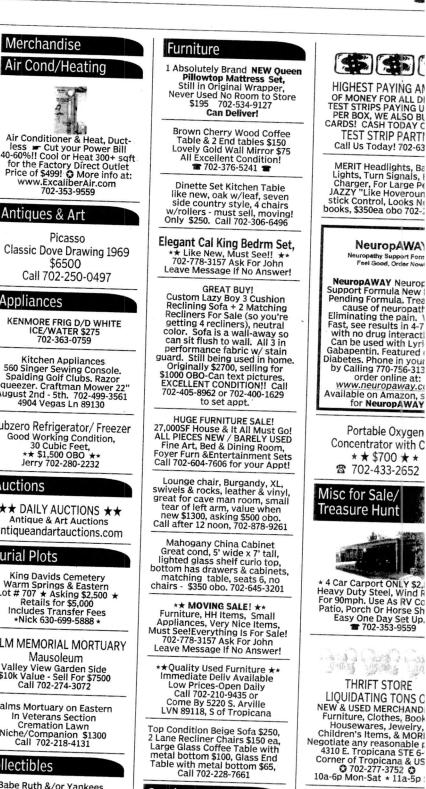
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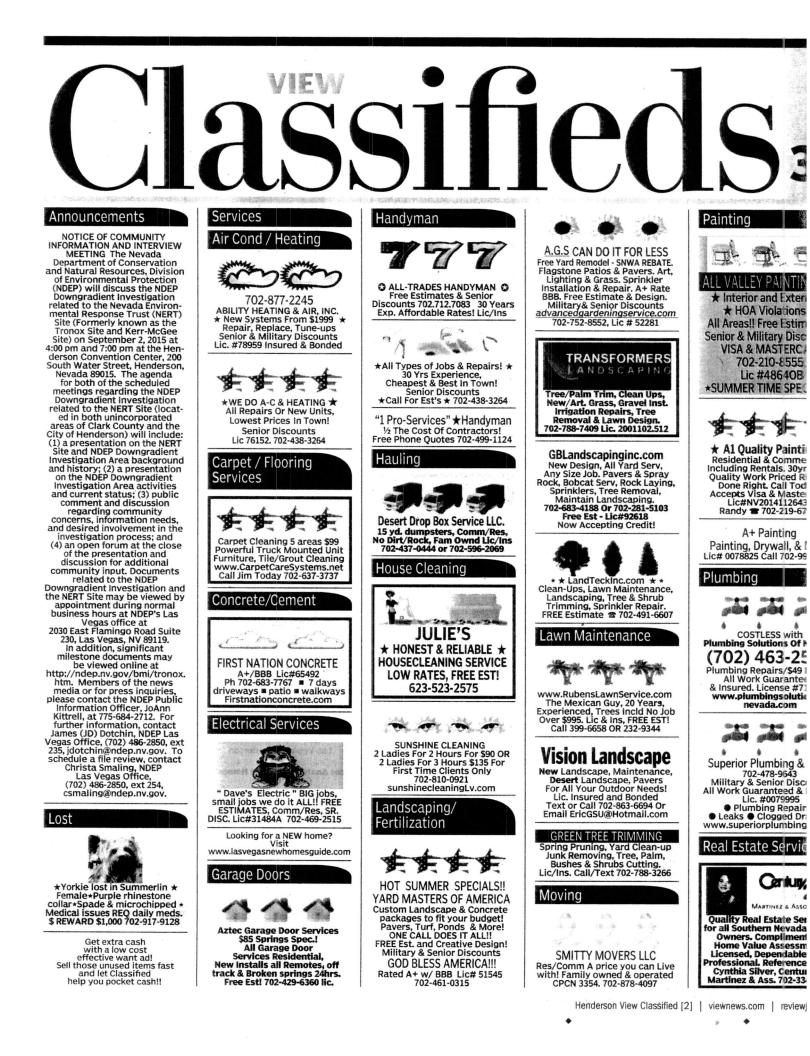


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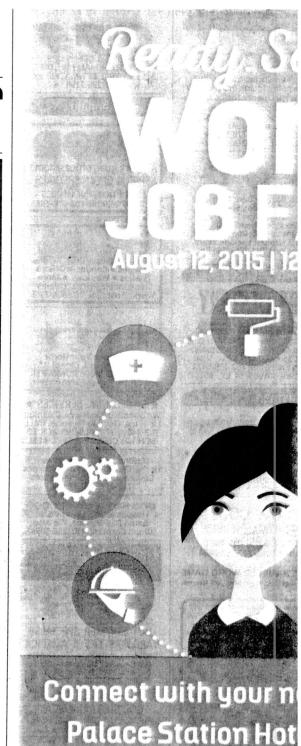


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Investigation Area background and history; (2) a presentation on the NDEP Downgradient Investigation Area activities

and current status; (3) public comment and discussion

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the NEK1 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 Christa Smaling, NDEP Las Vegas Office, (702) 486-2850, ext 254, csmaling@ndep.nv.gov.

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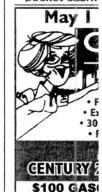
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### NERT REGIONAL DOWNGRADIENT INVESTIGATION NEVADA ENVIRONMENTAL RESPONSE TRUST SITE HENDERSON, NEVADA

September 2, 2015 4:00pm & 7:00 pm Henderson Convention Center 200 South Water Street Henderson, Nevada



# **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)

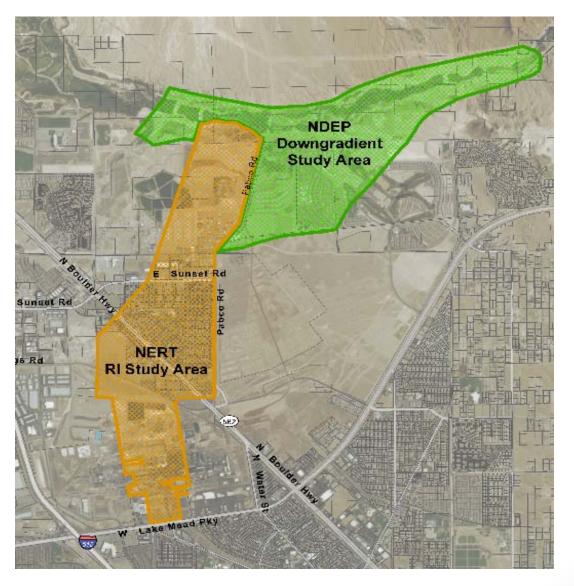


### **Purpose of This Meeting**

- 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**



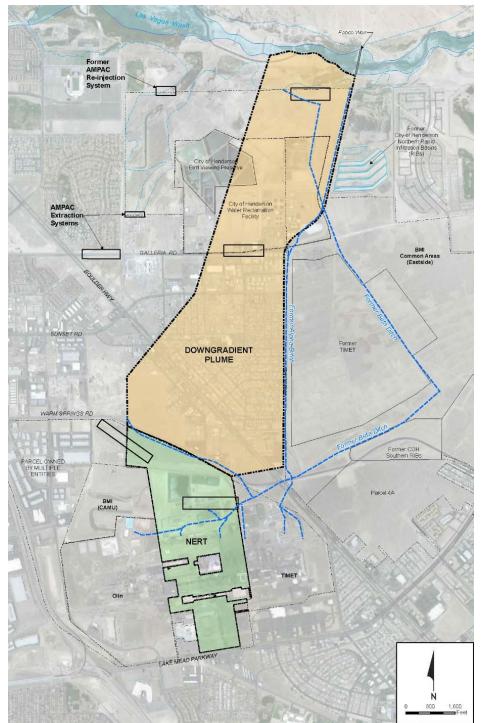
### NEVADA ENVIRONMENTAL RESPONSE TRUST SITE HISTORY AND CURRENT STATUS SEPTEMBER 2, 2015



#### 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

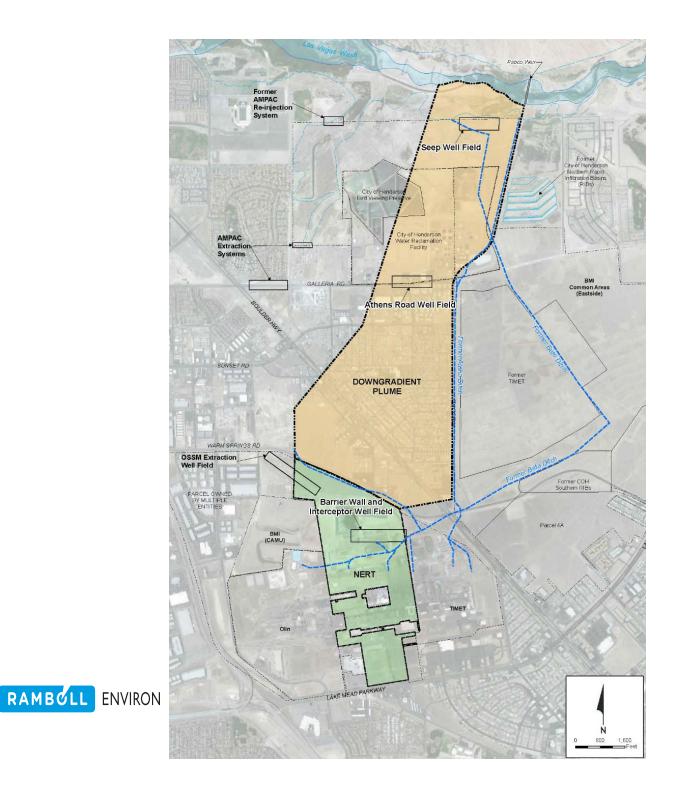
- 1986-87 Installation of on-site groundwater extraction (IWF) and chromium treatment system
- 1997 Perchlorate detected in Colorado River
- Perchlorate seep found at Las Vegas Wash capture sump and treatment system installed
- 2001-03 Expanded groundwater extraction (SWF) and treatment system installed – 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?

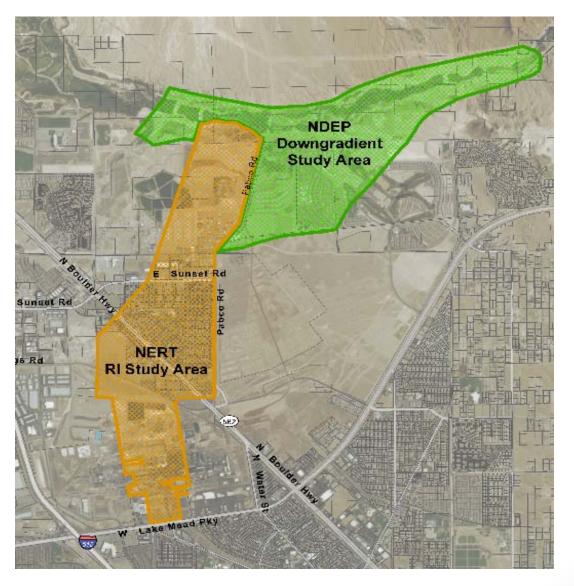
- Evaluate potential NERT site related perchlorate impact to the soil, groundwater, and the Las Vegas Wash.
- Determine where we should target cleanup of perchlorate
- Proximity to Las Vegas Wash
- NDEP's investigations in the downgradient area will be concurrent with the Nevada Environmental Response Trust's investigation in the core plume area.



# **Regional Map**



### **NDEP Downgradient Study Area**







ocument Path: C:\Users\sshinlDesktop\NERT\LandOwnershipMap\_REVISED\_02-26-2015.mxd

# What is Perchlorate Anyway?

- Ammonium Perchlorate NH<sub>4</sub>ClO<sub>4</sub>
- White crystalline salt that is very soluble in water
- Powerful Oxidizer most commonly used in solid rocket propellant. (NASA, Military, Fireworks, and hobby rockets)





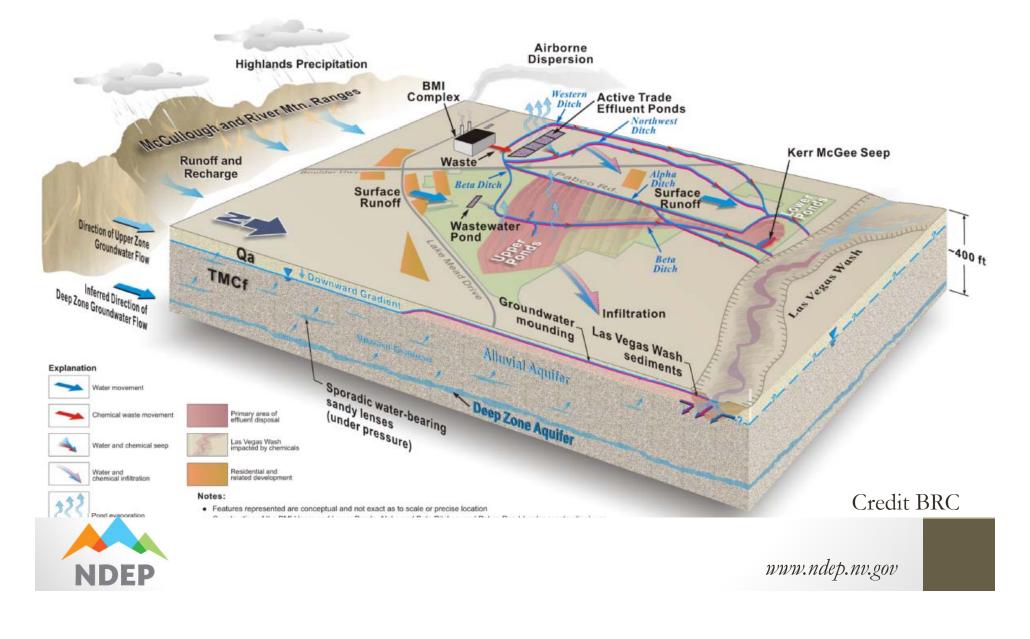


### Potential Origins of Perchlorate in Groundwater in the Study Area

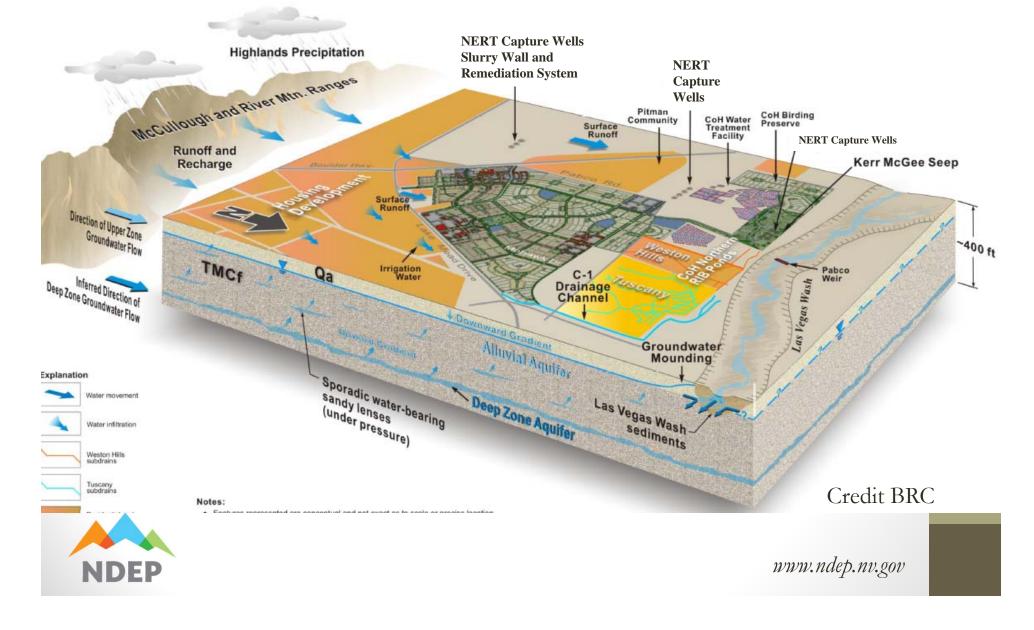
- Available information indicates that perchlorate from former operations at the NERT Site:
  - Leached down through the soil column into groundwater, which then flowed into the NDEP Downgradient Study Area.
  - Was transported through former ditches to former unlined waste disposal ponds located near 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**



### **Future Land Use**



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

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

## Can I grow my own vegetables?

 Yes, the information complied 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 <u>http://ndep.nv.gov/bca/perchlorate05.htm</u>

## Does this impact the air in my home or outside?

- Since perchlorates are salts they <u>do not</u> 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 <u>idotchin@ndep.nv.gov</u> <u>http://ndep.nv.gov/bmi/tronox.htm</u>



Sept. 2, 2015

4 pm

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Ama Emery		(909)633-4111	pinkyemery@gma; 1.com	yes
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VIZRRY POSSTICK		702616-9714	968 FISHING ST	YES
Michael Batten		702-897-1424	mbitter Egeotekusa-com	Yes
GREEDOMY A. BRUCE		701-224-1150	6A C GB/KH. Com	Ac
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Cindy Hoopes	2335 TILDES WAY			

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CHARLES IN CATHERINE	1028 PLEASANT RUL	209-761	fogber es yahoo 100	m YES
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Kendra Hardy	189 Elk Cove Ct. Henderson, NV 89011	757-537-2422	waterchick81@gmail.com	Yes
ALEXIS Johnson	980 Sable Chase PL Henderson, NV 89011	702-743-3484	goodgirlex ) Chotriailes	yes yes

Sept. 2, 2015

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Janice Monterro	993 Crescent Falls St	702-278-2144	janprollemsn.com	Cles
SBEECH	5425 Mikel CR	(70) KTRT, 502-10		Jican yes
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John & Veronica Labrada	208 Radbark LN	702 767-1181	John in the is at a live,	
Lorraine Kalayanaprapuit	5414 Cross Mardows Ly	752 3587486	Kalayana Legmall.	n yes
Lee FARRIC	875 W. WIGER Spridge	702 5232920	LFARRISELANDWELLO. COM	Yes
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ATTACHMENT G JANUARY 2016 COMMUNITY INFORMATION DOCUMENTS PROVIDED IN MAILING



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

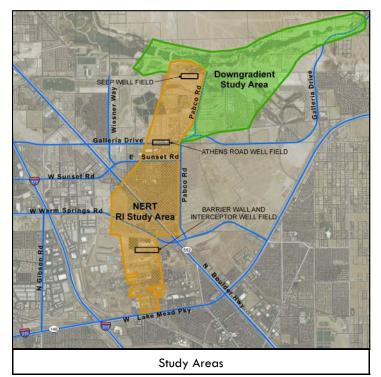
#### Update on the NERT Remedial Investigation and Downgradient Study Areas

#### **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 (northnortheast) 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) semiannually.

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 siterelated 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 aroundwater 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 NDEPled 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

#### Downgradient Galleria Drive SEEP WELL FIELD **Study Area** Ro Way esner N Galleria Drive ATHENS ROAD WELL FIELD E Sunset Rd Rd W Sunset Rd Pabco NERT BARRIER WALLAND W Warm Springs Rd **RI Study Area** INTERCEPTOR WELL FIELD 582 Boulders Lake Mead Pky 146

#### 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.



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

#### **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.

- Is my drinking water safe to consume? Yes, drinking water for Henderson and the Las Vegas Valley comes from Lake Mead which meets <u>all</u> 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 <a href="http://ndep.nv.gov/bmi/tronox.htm">http://ndep.nv.gov/bmi/tronox.htm</a>. 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.
- 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: <u>http://ndep.nv.gov/bca/perchlorate05.htm</u>.
- 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 <u>http://ndep.nv.gov/bmi/tronox.htm</u>.