



**Excavation of Beta Ditch at
NERT-TIMET Property Line**

Nevada Environmental Response
Trust Site, Henderson, Nevada

Prepared for:
Nevada Environmental Response Trust

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Excavation of Beta Ditch at NERT-TIMET Property Line

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

Nevada Environmental Response Trust (Trust) 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 the Trust. Based on my own involvement and/or my inquiry of the person or persons who manage the system(s) or those directly responsible for gathering the information or preparing the document, or the immediate supervisor of such person(s), the information submitted and provided herein is, to the best of my knowledge and belief, true, accurate, and complete in all material respects.

Office of the Nevada Environmental Response Trust

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

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

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Date: 3/31/14

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**Nevada Environmental Response Trust
(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.



March 31, 2014

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Acronyms and Abbreviations

ACM	Asbestos-Containing Material
AP&CC	American Potash and Chemical Company
Apex	Apex Regional Landfill
ASTM	American Society for Testing and Materials
BCL	Basic Comparison Level
bgs	below ground surface
BMI	Black Mountain Industrial
CCDAQ	Clark County Department of Air Quality
CCDDS	Clark County Department of Development Services
Cesare	Cesare, Inc. (Geotechnical Consultant)
COPCs	Constituents of Potential Concern
cy	cubic yards
DVSR	Data Validation Summary Report
ECA	Excavation Control Area
Envirocon	Envirocon, Inc.
ENVIRON	ENVIRON International Corporation
fibers/cc	fibers per cubic centimeter
ft	feet
GPS	Global Positioning System
HASP	Health and Safety Plan
HCB	Hexachlorobenzene
KMCC	Kerr-McGee Chemical Corporation
LDC	Laboratory Data Consultants, Inc.
LoSo	Logistical Solutions, Inc.
msl	mean sea level
NESHAP	National Emission Standard for Hazardous Air Pollutants
Northgate	Northgate Environmental Management, Inc.
NDEP	Nevada Division of Environmental Protection
OCPs	Organochlorine Pesticides
OSHA	Occupational Safety and Health Administration
PCBs	Polychlorinated Biphenyls

PEL	Personal Exposure Limit
PID	Photoionization Detector
PLM	Polarized Light Microscopy
PPE	Personal Protective Equipment
ppm	parts per million
RAW	Removal Action Work Plan
RCI	RCI Engineering
RI/FS	Remedial Investigation/Feasibility Study
RZ	Remediation Zone
SMP	Site Management Plan
SRG	Soil Remediation Goal
SVOCs	Semivolatile Organic Compounds
TEQ	Toxicity equivalent
the Trust	Nevada Environmental Response Trust
TIMET	Titanium Metals Corp.
Tronox	Tronox LLC
µg/m ³	micrograms per cubic meter
USEPA	United States Environmental Protection Agency
VOCs	Volatile Organic Compounds
WECCO	Western Electrochemical Company

1 Introduction

In accordance with the Interim Consent Agreement for the Nevada Environmental Response Trust (NERT or the Trust) Site (the Site), ENVIRON International Corporation (ENVIRON) submits this report on the excavation of the eastern end of the former Beta Ditch at the Trust-Titanium Metals Corp. (TIMET) property line to the Nevada Division of Environmental Protection (NDEP), on behalf of the Trust.

Tronox LLC (Tronox) formerly owned and operated the Site. Tronox currently maintains manufacturing operations on a portion of the Site leased from the Trust. In conjunction with the settlement of Tronox's bankruptcy proceeding, the Trust took title to the Site on February 14, 2011. Pursuant to the terms of the Interim Consent Agreement, the Trust is required to complete the excavation activities previously commenced at the Site. The majority of soil excavation activities at the Site were performed between August 2010 and November 2011; however, the eastern portion of the former Beta Ditch could not be excavated at that time due to access constraints. In consultation with NDEP, it was agreed to leave the soils in the eastern portion of the Beta Ditch in place until such time when the neighboring TIMET facility performed excavation of the former Beta Ditch on their property, east of the Trust property. With the completion of the activities described in this report, the Trust has completed the excavation activities required under the Interim Consent Agreement.

This report summarizes the excavation of the former Beta Ditch on Trust property, at the Trust-TIMET property line, which took place in October 2013, concurrent with TIMET's excavation on their property to the east. The planned excavation was the subject of ENVIRON's *Revised Work Plan, Planned Excavation of Beta Ditch at NERT-TIMET Property Line* (the "Work Plan"), dated June 27, 2013 (ENVIRON 2013). Specifically, this report describes:

- the general approach taken for conducting excavation work, instituting Site controls, and addressing wells, utilities, and other Site infrastructure;
- the air monitoring program in place during excavation work;
- the management of waste material;
- the removal of materials within designed polygons, asbestos-containing material (ACM), and discolored soil; and
- the Site restoration process.

1.1 Site Background

The Site is located approximately 13 miles southeast of the city of Las Vegas in an unincorporated area of Clark County, Nevada, and lies in Sections 12 and 13 of Township 22 S, Range 62 E (see Figure 1). The approximately 346-acre Site is located within the Black Mountain Industrial (BMI) complex, which has been the site of industrial operations since 1942 when it was first operated by the U.S. government as a magnesium plant for World War II operations. Later, a part of the BMI Complex that would ultimately become the Site was leased by Western Electrochemical Company (WECCO). WECCO produced manganese dioxide, sodium chlorate, sodium perchlorate, and other perchlorates. WECCO also produced ammonium perchlorate (a powerful oxidizer) for the Navy during the early 1950s using a plant

that was constructed on the Site by the Navy. WECCO merged with American Potash and Chemical Company (AP&CC) in 1956, and continued production of ammonium perchlorate for the Navy. In 1967, Kerr-McGee Chemical Corporation (KMCC) purchased AP&CC. KMCC began production of boron chemicals in the early 1970s. The production processes included elemental boron, boron trichloride (a colorless gas used as a reagent in organic synthesis), and boron tribromide (a colorless fuming liquid used in a variety of applications). The production of boron tribromide was discontinued in 1994, and the production of sodium chlorate and ammonium perchlorate was discontinued in 1997 and 1998, respectively. Perchlorate was reclaimed at the Site using existing equipment until early 2002.

In 2006, Tronox took ownership of the facility formerly operated by KMCC on the Site and operated it to produce electrolytic manganese dioxide for use in the manufacture of alkaline batteries; elemental boron for use as a component of automotive airbag igniters; and boron trichloride for use in the pharmaceutical and semiconductor industries and in the manufacture of high-strength boron fibers for products that include sporting equipment and aircraft parts. In 2009, Tronox filed for Chapter 11 bankruptcy. The Trust took title to the Site on February 14, 2011, as a result of the settlement of Tronox's bankruptcy proceeding. Tronox currently has a long-term lease for approximately 114 acres of the Site, where it continues its manufacturing operations.

On December 14, 2009, NDEP issued to Tronox a Finding of Alleged Violation and Order requiring Tronox to comply with the obligations pertaining to the Henderson facility under the various Consent Agreements previously issued for the Site, and setting forth a specified schedule for such compliance (the "2009 Division Order") (NDEP, 2009). At the conclusion of a February 22, 2010 meeting, NDEP and Tronox discussed the conceptual scope and implementation of a soil remediation program needed to comply with the 2009 Division Order. A detailed scope of work, consistent with previous discussions with NDEP, was presented by Northgate Environmental Management, Inc. (Northgate) in the May 2010 *Removal Action Work Plan for Phase B Soil Remediation of Remediation Zones RZ-B through RZ-E, Tronox LLC, Henderson, Nevada*, revised May 28, 2010 (the "RAW") (Northgate, 2010c).

1.2 Site Description and Land Use

1.2.1 Physical Characteristics

The Site is a 346-acre property (Figure 1) that is generally rectangular in shape with the long side in the north-south direction. Elevations across the Site range from 1,677 to 1,873 feet (ft) above mean sea level (msl). The land surface slopes toward the north at a gradient of approximately 0.023 ft per foot (ft/ft). The developed portions of the Site have been modified by grading to accommodate plant facility buildings, surface impoundments, access roads, a former landfill, and other Site features.

The excavation area is situated on the Site, along the property line with the adjacent TIMET facility to the east. The land surface slopes downward to the east and north in the vicinity of the excavation area.

1.2.2 Current Land Use

Tronox currently operates processes on a portion of the Site (the "Facility") to produce manganese dioxide, boron trichloride, elemental boron, and batteries. The Facility includes numerous buildings, sheds, labs, ponds, tanks, and pipelines related to the production processes. However, there are no facility buildings in the excavation area.

1.3 Scope of Work

Tronox performed two soil sampling programs (known as Phase A and B Source Investigations) that were completed in 2006 and 2008, respectively (ENSR-AECOM, 2006 and 2008). These investigations identified a number of constituents in excess of state Basic Comparison Levels (BCLs) criteria within the upper 10 ft of soil, including dioxins/furans (quantified as a toxicity equivalency quotient, or TEQ), hexachlorobenzene (HCB), other semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), asbestos, metals, organochlorine pesticides (OCPs), and perchlorate. The 2009 Division Order directed Tronox to remove all soil containing constituents of potential concern (COPCs) in excess of worker BCLs (or modified risk-based site-specific goals agreed upon by NDEP) from the Site, reducing the human health risks associated with contaminated soil. In the May 2010 RAW, Northgate laid out a strategy for excavating chemically impacted soil within the upper 10-foot below ground surface (bgs) horizon in contaminated portions of the Site, to the extent such soils were accessible (Northgate, 2010). These remediation activities were commenced by Tronox in August 2010 and were completed by the Trust in November 2011, as detailed in the Revised Interim Soil Removal Action Completion Report (ENVIRON 2012c).

During the 2011 remediation program, Excavation Control Areas (ECAs) were established, within which remediation could not be completed due to access constraints. ECA E3 was established at the east end of the former Beta Ditch, where structures and equipment prevented the removal of soil from polygon RZ-E-16B and a small portion of polygon RZ-E-16A (ENVIRON 2012a and 2012b). The excavation of soils in ECA E3 is the subject of this report.

The scope of work of the ECA E3 remediation activities described herein included the following tasks:

- Relocation of the site perimeter fence
- Removal of the existing structures and equipment
- Excavation of the remaining polygon soil that was included in the ECA
- Excavation of additional discolored soil known to be impacted by asbestos
- Backfilling and compaction of the area
- Restoration of the perimeter roadway
- Replacement of the perimeter fence

2 Soil Remediation Program

2.1 General Remediation Approach

The east end of the former Beta Ditch was previously characterized during the Phase A and B sampling, after which remediation area polygons were established by Northgate in 2010. At the east end of the Beta Ditch, polygon RZ-E-16B, as well as a small portion of polygon RZ-E-16A, was inaccessible during the 2011 excavation activities due to an existing sandbag diversion structure, drainage culverts, the perimeter fence line, the underground Pittman Bypass pipeline (a former wastewater conveyance line), and an elevated walkway structure. As a result, ECA E3 was established. In addition, as described in the Interim Soil Removal Action Completion Report (ENVIRON 2012c), the excavation of the accessible portion of RZ-E-16A (adjacent to the southwest of ECA E3) revealed a layer of asbestos-impacted soils extending along the path of the former Beta Ditch through ECA E3 at a depth of approximately five to seven feet bgs. In addition to the previously characterized remediation polygon soil, this asbestos-impacted layer was targeted for removal during this excavation.

The general remediation strategy for the east end of the former Beta Ditch consisted of removal of the equipment and structures that had previously prevented access to the area, excavation of remaining soils within the designated remediation polygons, removal of the previously identified asbestos-impacted soil layer, and observations for any additional discolored soil (to be sampled and removed if above site remediation goals [SRGs]).

The soil remediation program was implemented by the Trust and managed by ENVIRON. ENVIRON retained Envirocon, Inc. (Envirocon) as the soil remediation contractor and Logistical Solutions (LoSo) as the asbestos remediation observation contractor. Walker Specialty Construction, Inc. (Walker) was subcontracted by Envirocon to perform excavation of asbestos-impacted soils. Envirocon's work included soil removal, asbestos remediation, transportation, waste disposal, grading, and site restoration.

2.1.1 Excavation Design

The east end of the former Beta Ditch excavation was designed to remove the remaining soil within the boundaries of the original excavation polygons RZ-E-16A and RZ-E-16B, which were established based on the results of soil samples from soil boring SSAL8-02 and other nearby soil borings. The original polygon RZ-E-16A was an elongated area along the former Beta Ditch with a depth of seven feet below the ground surface at the time of polygon design (only a small corner of this polygon was inaccessible due to the overlying sandbag dam structure). The original polygon RZ-E-16B consisted of a triangular area with a depth of five feet below the ground surface at the time. Northgate's November 2010 Excavation Plan for Phase B Soil Remediation of RZ-E, Addendum to the Removal Action Work Plan, which describes the approach to soil remediation including the excavation polygons, was approved by NDEP in a letter dated November 29, 2010.

To design the excavation, ENVIRON overlaid the polygon boundaries onto the topographic surface that remained after the 2011 soil remediation. The design depth of polygon RZ-E-16B was originally five feet below the pre-2011 remediation topographic surface, however some surface grading and shallow excavation had been performed in the area as part of the 2011 remediation program, including the removal and disposal of shallow polygon material in

accessible areas as part of the construction of a stormwater conveyance ditch. In consideration of the changes in topography, ENVIRON created a new polygon RZ-E-16B design with an excavation depth of five feet below the pre-grading ground surface, which corresponded to a depth ranging from two to five feet below the post-grading surface. No changes had been made to the topographic surface within the small remaining area of RZ-E-16A (due to the position of the overlying sandbag dam structure), thus the design of the portion of the excavation comprised of the remaining RZ-E-16A polygon remained unchanged, with a depth of seven feet below grade. Envirocon imported ENVIRON's excavation design into AutoCAD Civil 3D and modeled the excavation in three dimensions to ensure that all of the remaining soil within the vertical and horizontal boundaries of the original polygons would be removed.

The three dimensional polygon design model was uploaded to global positioning system (GPS) rover units for field use. Excavation was completed with GPS-guided equipment and with periodic manual topography checks using the rover units to determine when the design depth had been reached. Upon completion of the excavation, post-work topographic data were collected. ENVIRON field personnel worked closely with Envirocon's surveying technician to ensure that design depths had been reached.

2.1.2 Discolored Soil Observations and Remediation

Discolored soil was encountered in various locations at the Site during the 2011 remediation activities described in the Interim Soil Removal Action Completion Report (ENVIRON 2012c). Based on chemical composition and/or accessibility, discolored soil was typically removed.

During the 2011 remediation activities, when the adjacent portion of RZ-E-16A to the southwest was excavated, a vertical cross-section of the southwestern boundary of the ECA E3 area was visible. The cross section was observed to contain a layer of beige, fibrous soil and debris, as well as discolored soil, ranging between approximately 5 to 7 feet depth bgs. The layer, where visible in cross-section, appeared to be within polygon RZ-E-16A, and it appeared to extend northeastward beneath the bottom depth of polygon RZ-E-16B, along the axis of the former Beta Ditch. Samples collected from the layer indicated that the discolored soil and debris were impacted with asbestos (ENVIRON 2012c). During the recent excavation activities, this layer was completely excavated and removed following the excavation of the overlying polygon soil.

Following removal of polygon soil and the ACM-impacted soil layer beneath the RZ-E-16B polygon, continual observations were made of excavation sidewalls and bottom for discolored soil. No additional discolored soil areas were observed in the excavation area.

2.2 Work Area Preparation and Remediation Program Resources

2.2.1 Perimeter Fence Relocation

In the vicinity of the excavation area, the perimeter fence line was temporarily relocated to the west, in order to provide access to the entire excavation area from the adjacent TIMET property, where Envirocon was concurrently working on a soil remediation program for TIMET. The relocation of the fence was performed by Fencing Specialists, Inc. in September 2013. The fence was restored to its original configuration in October 2013 after completion of the excavation activities, as described in Section 4.2.

2.2.2 Property Line Survey

The property line between the NERT and TIMET properties was marked within and adjacent to the excavation area by Atkins Global, Inc. in July 2013, prior to the start of excavation activities. The survey was based on an ALTA survey map (Quantum 2009). The property line formed the eastern boundary of the excavation area.

2.2.3 Underground Utility Clearance

Before excavation began, the work area was checked for underground utilities to prevent the utilities from being damaged during remediation activities. The protection of utilities consisted of checking plans, blueprints, and figures from Tronox and GWETS groundwater conveyance system designs, checking with Tronox personnel, and retaining a private utility locator (GPRS, Inc.) to scan for utilities using non-intrusive geophysical techniques. Tronox also required ENVIRON to obtain a groundbreaking permit prior to excavation because the excavation is within a Tronox-leased area. The groundbreaking permit was issued prior to the start of work. In addition, Underground Service Alert (USA) was contacted at least 48 hours prior to the start of excavation to allow public utility companies to mark underground lines.

The only utilities identified in the excavation area were transite pipes related to the Pittman Bypass pipeline which were removed from within the excavation area and sealed with concrete where they exited the excavation area.

2.2.4 Permitting

Envirocon obtained the following permits prior to beginning remediation activities at the Site:

- A Dust Control Permit for Construction Activities including Surface Grading and Trenching was obtained from the Clark County Department of Air Quality (CCDAQ), Permit Number 42498, by Envirocon for the adjacent TIMET project. Envirocon requested and received approval for the TIMET permit to be modified (Modification No. 2) to cover the activities at the east end of the former Beta Ditch on NERT property.
- A National Emissions Standards for Hazardous Air Pollutants (NESHAP) Notification of Asbestos Abatement (Project No. 130352) was submitted to the CCDAQ for the adjacent TIMET project. Envirocon requested and received approval for the TIMET notification to be modified to include asbestos abatement activities at the east end of the former Beta Ditch excavation on NERT property.
- A Permit to Transport Asbestos was obtained for the adjacent TIMET project from the Southern Nevada Health District (Permit Number ATP13-072204) and based on Envirocon's discussion with CCDAQ, the permit was allowed to be used for the transportation of ACM from the east end of the former Beta Ditch on NERT property;
- The work was conducted under the previous grading permits from the 2010-2011 remediation project, which remained open according to communications with the County. The permits (Permit Numbers 10-21350 GD6 and 10-33981 GD6) were obtained from Clark County Department of Development Services (CCDDS).

Following completion of the remediation activities, permits were closed out as necessary. Permit closure documentation for the dust control permit was obtained from CCDAQ on October

15, 2013. Asbestos abatement notification and transportation permits expire after the completion of the work; specific permit closure documentation was not required. The grading permit remains open pending future soil remediation work at the Site that may require grading activities.

Copies of permits obtained for the excavation program and associated documentation are provided in Appendix B, except for the grading permits, copies of which were included in the Interim Soil Removal Action Completion Report (ENVIRON 2012c).

2.2.5 Site Controls

Due to the relocation of the perimeter fence further to the west to allow equipment and personnel access from the TIMET property, Site access during remediation activities was controlled by TIMET's perimeter fence with locking gates and security personnel. Signs posted on the perimeter fencing warned visitors to deter unauthorized entry onto the Site. All workers and visitors were required to enter at the TIMET main security gate, where security personnel were present 24 hours a day, 7 days a week.

Additional Site controls included site work requirements, protecting utilities, traffic control, and an exclusion zone designation. These Site controls were necessary to direct the following:

- Remediation workers;
- Vendors and subcontractors (e.g., equipment mechanics, materials delivery, trucking subcontractors); and
- Site visitors (e.g., agency staff, elected or appointed government officials).

Envirocon and ENVIRON personnel, as well as other project subcontractor personnel, were required to complete the TIMET safety training program in order to move around the Site without a TIMET safety trained escort. No visitors were allowed on the Site without escorts, with the exception of NDEP representatives who had completed the TIMET safety training program and were onsite to observe the remedial work. All properly trained remediation workers, subcontractors, and NDEP personnel were required to check in at the TIMET security office and receive a badge and vehicle pass on a daily basis. All personnel were required to attend a tailgate health and safety briefing before entering any remediation exclusion zones.

Traffic control at the Site occurred at excavation entrances/exits that were difficult for large equipment to exit. As an example, flaggers were used to stop traffic while haul trucks dumping fill exited the area. Flaggers were also used any time material was being hauled offsite or when fill was being brought onto the Site.

An exclusion zone was set up around excavation areas before work began. The perimeter fencing acted as a barrier around the excavation. The eastern side of the excavation was unfenced and was used for access by equipment and personnel. Signs were placed near the excavation to alert workers of the exclusion zone area and proper decontamination areas.

Stormwater best management practices (BMPs) were in place at the excavation area, including the use of silt fences and straw wattles in sloped areas, procedures to cover any soil stockpiles

prior to a predicted rain event, and procedures to prevent or contain and clean up any leaks of fuel, oil or other equipment-related fluids.

2.2.6 Survey Equipment and Survey Control Stations

Envirocon utilized Trimble GPS equipment, including portable data controllers and receivers (model numbers TSC2 and R8GNSS, respectively) and a base station (Zephyr Geodetic Model 2 with SPS 850 Radio unit). Software used included Trimble Business Center, SiteVision Office, and AutoCAD Civil 3D 2013. The normal accuracy range of the equipment was +/- 0.01 to 0.05 ft for both horizontal and vertical data.

ENVIRON provided Envirocon with a pre-work site map including topographic information which was tied in with the state plane coordinate system. Envirocon imported the topographic information into their AutoCAD Civil 3D 2013 software program to model excavation depths and track progress.

2.2.7 Personnel Roles and Responsibilities

ENVIRON was contracted by the Trust to oversee the excavation. ENVIRON personnel and responsibilities included our Principal-in-charge (design and planning of project; addressing technical issues; managing contracts, budget, and client interactions), Project Managers (leading site activities, addressing issues arising during excavation work, coordinating soil sample collection, scheduling subcontractors and ENVIRON project team, managing waste profiles), and Field Staff (providing subcontractor oversight at active excavation sites, inspecting subcontractor decontamination procedures, collection of soil samples, checking excavation depths, perimeter dust monitoring, dust and volatile organic compound (VOC) monitoring at active excavation sites).

The NDEP program manager provided input and approval of activities which deviated from the approved work plan documents. McGinley and Associates (NDEP representative) provided oversight in the field on behalf of NDEP. McGinley and Associates was onsite periodically during excavation activities to monitor progress and report their observations to NDEP.

Envirocon was subcontracted by ENVIRON to perform the excavation, transportation, disposal and backfill placement for the excavation area. During excavation and backfilling, Envirocon was responsible for maintaining roadways, dust control, and monitoring of truck traffic. Envirocon was also responsible for setting up and maintaining barriers delineating contaminant zones and decontamination zones. Envirocon subcontracted with Walker for asbestos abatement performed during the excavation. Envirocon also subcontracted with other firms and individuals for tasks including soil and debris hauling and assorted minor tasks.

LoSo was subcontracted by ENVIRON to perform asbestos abatement oversight, and air monitoring during asbestos abatement activities. LoSo also assisted with the characterization and disposal of asbestos-containing waste.

RCI Engineering (RCI) provided assistance and coordination with local regulators to ensure the proper permits were in place for grading activities.

Cesare, Inc. (Cesare) performed geotechnical consulting tasks including making a recommendation for the proper backfill and compaction materials and procedures (which was included as an attachment to the Work Plan), coordinating laboratory testing of backfill material, and field testing of compaction and soil moisture content during backfilling activities.

2.3 Excavation Procedures

Envirocon was contracted to complete the soil excavations according to ENVIRON's Work Plan for the excavation activities (ENVIRON 2013). Envirocon used excavation-specific equipment that was appropriate to remove the COPC-impacted soil to the proper depth and lateral extent. The soil was direct-loaded into dedicated end-dump haul trucks and transported offsite for direct disposal at Republic Services, Inc.'s (Republic's) Apex Regional Landfill (Apex). Envirocon's survey figures showing the topography of the area before excavation, after excavation, and after backfilling and compaction are provided in Appendix C. The Envirocon survey data of the excavated area is also provided on Figure 2.

2.3.1 Excavation Equipment Used

GPS-guided excavators were used to remove the existing concrete basin, metal walkway, pipes and associated vaults, and the sandbag dam structure, and were also used to remove soil and debris from the excavation. A GPS-guided dozer was also used to complete the excavation. Backfill materials were transported to the area in end dump trucks and the backfilling was performed by a loader and the GPS-guided dozer. The GPS-guided dozer was also used for compaction of backfill materials. A grader was used to restore the perimeter roadway area.

- Water Equipment: Envirocon used an 8,000-gallon water pull to control the dust produced during excavation and related activities. Envirocon also used an approximately 3,000-gallon water truck to spray water on the perimeter roadway and adjacent areas to control dust produced by trucks and equipment.
- Excavating Equipment: Excavation equipment used within the excavation area included excavators, a dozer, and a loader. The dozer and excavator were GPS-guided to assist in excavating to final grade.
- Loaders: Loaders were used for general soil/backfill transportation onsite.
- Backfilling/Grading Equipment: Several pieces of backfilling and grading equipment were used onsite, including a GPS-guided dozer, a loader and a grader.

2.3.2 Dust Control Measures

The dust control measures at the Site were implemented in accordance with Sections 90 – 94 of the *Clark County Air Quality Regulations*, which are administered and enforced by the CCDAQ. These control measures consisted primarily of wetting the surface soil in active excavation areas and along onsite transportation routes. Water for dust control was obtained from TIMET fire hydrants.

2.4 Air Monitoring Program

2.4.1 Perimeter Dust Monitoring

During the excavation and related activities, onsite personnel performed dust monitoring at four locations around the perimeter of the excavation area to provide information on the effectiveness of dust control measures and to ensure that dust concentrations did not exceed the Site Action Level of 100 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) (24-hour average). To accommodate changing wind conditions and to measure both upwind and downwind concentrations, monitoring stations were established at the north, south, east, and west sides of the excavation area (Figure 2). Perimeter dust concentrations were measured during work hours using Thermo Scientific personal DataRAM *pDR-1000AN* devices that were programmed to provide real-time dust concentrations and to record the average concentration every sixty seconds.

After the completion of dust-generating activities each day, the perimeter dust monitoring data were downloaded, graphed and reviewed to ensure that dust concentrations did not exceed the Site Action Level. The data were compared to field notes on wind direction to better understand the reason for any short-term exceedance(s) of the Site Action Level. ENVIRON found that while there were some sporadic short-term measurements over $100 \mu\text{g}/\text{m}^3$, they were typically brief and likely due to momentary increases in wind speed or mobilization of equipment in the vicinity of an air monitoring station. Measured values above $100 \mu\text{g}/\text{m}^3$ were uncommon and short-lived. While data were only recorded during work hours and not during night-time hours, the daytime data indicate that the 24-hour average dust concentrations at the excavation area did not exceed the Site Action Level, assuming night-time concentrations were less than or equal to daytime concentrations.

2.4.2 Work Zone Asbestos Air Monitoring

Work zone asbestos monitoring was performed by LoSo during asbestos remediation. Samples were taken using Gilian BDX II Personal Abatement Air Samplers. The asbestos air sampling was performed within the work area in a downwind direction from abatement activities and loading of asbestos-impacted material. According to the monitoring data, the concentration of asbestos at the project boundary was never measured above the Occupational Safety and Health Administration (OSHA) 8-hour personal exposure limit (PEL) of 0.1 fibers per cubic centimeter (fibers/cc). Work zone asbestos air monitoring data are included in LoSo's *Visual Inspection Report*, provided in Appendix D (LoSo 2013).

2.4.3 Work Zone Dust Monitoring

During the excavation and related activities, onsite personnel performed work zone dust monitoring. The monitoring was performed using a Thermo Scientific personal DataRAM *pDR-1000AN* device which was programmed to measure the sixty-second average of real-time dust concentrations. Readings of upwind and downwind concentrations were taken approximately once every hour and were recorded in daily logs. If the difference between the upwind and downwind concentrations exceeded $100 \mu\text{g}/\text{m}^3$, onsite personnel worked with excavation crews to ensure that additional dust control measures were implemented in a timely manner. A review of the daily logs found that, while there were sporadic exceedances of the $100 \mu\text{g}/\text{m}^3$ threshold, these exceedances were brief and were typically caused by an acute dust generating activity

(e.g., backfill unloaded at the excavation site) or from a momentary change in meteorological conditions (i.e., gust of wind).

2.4.4 Work Zone Volatile Organic Compound Monitoring

ENVIRON personnel performed periodic VOC monitoring of worker breathing zones as part of ENVIRON's site-specific Health and Safety Plan (HASP). The monitoring was performed at the working face of the excavation using handheld MiniRAE 3000 photoionization detectors (PIDs) with 10.6 electron volt (eV) and 11.7 eV lamps, which provided direct read-outs of real-time VOC concentrations. The results of the VOC monitoring were recorded in daily logs.

ENVIRON's HASP describes the action level for total volatile organic compounds (VOCs) as a sustained (i.e., five-minute sampling period) concentration of five parts per million (ppm) above background levels. Should concentrations exceed the action level, Site personnel are instructed in the HASP to upgrade to Level C personal protective equipment (PPE) and attempt to mitigate exposure through the use of engineering controls (i.e., move upwind, increase air circulation). If the action level still could not be met, ENVIRON personnel would leave the area and contact the Site Health and Safety Officer and Project Manager for further instructions.

No VOCs were detected in worker breathing zones or anywhere in the excavation area during the excavation of the east end of the former Beta Ditch.

2.5 Decontamination of Personnel and Equipment

During the remediation of Site soils, all personnel and equipment which came into contact with impacted material were required to undergo decontamination procedures. Initial decontamination procedures took place within exclusion zones to minimize the transport of contaminants to clean areas, with additional controls and practices in place throughout the Site to prevent transport of impacted materials offsite.

2.5.1 Personnel Decontamination

All personnel used proper PPE and were subject to all HASP rules while work was in progress at the Site. Decontamination areas were established near access points to exclusion zones. These areas included boot brushes and mats. All personnel were required to use a boot brush to remove excess soil before exiting an exclusion zone. Nitrile gloves were made readily available for personnel having to come in contact with impacted soils.

2.5.2 Excavation Equipment and Haul Truck Decontamination

All excavation equipment was decontaminated before exiting the work area, including the area encompassing the TIMET soil remediation program. Prior to relocating equipment, all loose and heavily caked soil was removed using brushes, flatbladed scrapers, hammers, or other suitable tools. The insides of excavator buckets were also decontaminated. All removed soil scrapings were contained and disposed appropriately. A Neptune wheel-wash station was used to clean haul truck and equipment wheels and undersides prior to exiting the TIMET soil remediation program area.

Upon arriving at Apex, the haul trucks travelled to the appropriate cell for placement of the waste. After dumping the waste, the haul trucks proceeded along rumble strips and/or a gravel

track out road to a decontamination station located on a wide berm between treatment cells (double-lined shallow ponds used for liquid wastes received by the landfill). Trucks first passed over an under-carriage wash unit while a laborer washed off the lower portion of the haul truck cab and trailers, including tires, mud flaps, and dump gates, with a fire hose. Rinse water from the decontamination station drained directly into the treatment cells. At the end of the day's rounds and when trucks were to return to the Site with clean fill, a laborer typically ascended a scaffolding setup in order to rinse the insides of the haul truck trailer beds.

2.5.3 Sampling Equipment Decontamination

Confirmation soil samples were collected using an AMS[®] slide hammer and two-inch by six-inch stainless steel core sampler. New pre-cleaned stainless steel or brass sample liners were inserted into the decontaminated core sampler, which was then threaded onto the slide hammer. After the slide hammer was used to collect the sample, the undisturbed soil sample (contained in the metal core liner) was removed from the sampler and sealed with Teflon sheeting and new plastic end caps.

The stainless steel slide hammer core sampler tubes were decontaminated using a Liquinox-deionized water solution in combination with a scrub brush to remove residual soil. The equipment was rinsed with deionized water after cleaning.

2.6 Waste Management

After soils were excavated, they were loaded onto covered end-dump trucks for direct transportation to Apex landfill. All operators and vehicles were properly licensed by the Nevada Department of Transportation.

2.6.1 Waste Disposal Facility

All waste was profiled as nonhazardous and, thus, was transported to Apex, which is operated by Republic and is located approximately 37 miles from the Site. Upon arriving at the landfill, trucks were directed to a "working face" where the contents of the trucks were uncovered and dumped. Waste was placed in several different cells within the landfill property, depending on which areas of the landfill were active. The haul truck decontamination procedures in place at the landfill are detailed in Section 2.5.2.

2.6.2 Waste Streams, Characterization, and Profiling

All Site soil excavated during remediation at the Site was characterized as nonhazardous. Two profiles were set up for Site soils: one for soil and construction debris (3825 13 12625) and a second for asbestos-impacted soil and debris (3825 13 12575). Waste profiles were submitted with analytical data from soil samples previously collected in 2010 by Northgate at location SSAL8-02. The samples had been analyzed for arsenic and manganese (USEPA Method 6020/7471A); and Organochlorine Pesticides (USEPA Method 8081A) during previous soil characterization activities at the Site. The analytical results, along with a description of manufacturing processes related to the former Beta Ditch and an explanation of the selection of analytical methods at that location, were sent to Republic for waste profile acceptance. Profile documentation, including analytical results, is provided in Appendix E. Republic approved the waste profiles and allowable disposal quantities in September 2013. The approved disposal

quantity of asbestos-impacted soil and debris was subsequently increased from 50 to 500 cubic yards (cy).

2.6.3 Waste Manifests and Truck Tickets

Upon entering the Site, haul trucks proceeded to the work area for loading. Before the trucks were loaded, Envirocon operators provided the driver with the correct manifest for the current waste load. Apex returned a copy of each manifest and its corresponding scale ticket to Envirocon after the waste was dumped. All waste manifests and a summary of truck tickets from Apex are provided in Appendix H.

3 Soil Excavation Work

3.1 Soil Excavation from Polygon Areas

Remediation polygon soils (RZ-E-16B and a portion of RZ-E-16A) and debris at the east end of the former Beta Ditch were excavated and disposed of at Apex. An estimated total of 1028 cy of non-asbestos-impacted soil and debris was removed from the Site and disposed of at Apex during the excavation.

The excavation design and its relationship to the boundaries of the remediation polygons are described in Section 2.1.1. Waste profiling and disposal are discussed in Section 2.6. A summary of excavated volumes is provided in Table 2. The remediation polygon boundaries within the excavation area are shown on Figure 2.

3.2 Removal of Asbestos-Containing Material Encountered During Remediation

Asbestos remediation was performed by Walker, the asbestos abatement subcontractor working for Envirocon. Oversight of remediation activities, including the removal of ACM, was performed by ENVIRON, with assistance from its subcontractor LoSo. As part of the asbestos abatement oversight, LoSo performed visual clearance assessments and work zone asbestos air monitoring (see Section 2.4.2).

During the excavation activities, both known and previously unknown ACMs were found within the excavation. An estimated total of 422 cy of asbestos-impacted soil and debris was removed from the Site and disposed at Apex during the excavation. A description of ACMs encountered during the remediation program is provided below.

Known ACM removed during the excavation included fibrous debris and soil containing fibrous material within a discolored layer of soil that had been discovered during the excavation of the adjacent area to the west during the 2011 remediation program (see Section 2.1.2). The layer was present within the small remaining portion of polygon RZ-E-16A, and beneath polygon RZ-E-16B, at a depth of approximately 5 to 7 feet bgs. In order to characterize the discolored layer within the ECA, the layer was sampled and tested as part of a *Limited Asbestos Survey* conducted by LoSo during the 2011 remediation program (included in Appendix F). Three of the five samples collected and analyzed for bulk asbestos contained asbestos at concentrations ranging from 10 to 99 percent (ENVIRON 2012c; LoSo 2011).

Previously unknown ACM removed during the excavation included underground piping associated with the Pittman Bypass pipeline that was identified by LoSo and Walker as transite (a material manufactured from concrete and asbestos).

Transite pipe segments and larger pieces of fibrous debris were immediately covered with plastic sheeting by Walker. Smaller pieces of fibrous debris, transite pipe fragments, soil containing fibrous material, and soil adjacent to fibrous material were excavated and direct-loaded into end-dump trucks lined with plastic sheeting. All ACM and suspect ACM were disposed at Apex landfill under an approved waste profile for asbestos-impacted soil and debris. Waste profiling and disposal are discussed in Section 2.6. A summary of excavated volumes is provided in Table 2.

3.2.1 Asbestos Inspection and Clearance

After completion of ACM abatement and disposal, visual inspections of each removal area were performed by LoSo to identify any remaining ACM material. If none was present, the area received clearance and soil remediation excavation work or backfill/grading would continue. Based on the work zone air monitoring data collected, the concentration of asbestos at the project boundary was never measured above the OSHA 8-hour PEL of 0.1 fibers/cc. A visual clearance and air sampling report prepared by LoSo is provided in Appendix F.

3.3 Discolored Soil

A layer of discolored soil and fibrous debris was known to exist beneath and within the excavation polygon boundaries. This layer, which is discussed in Section 2.1.2 and Section 3.2, was specifically targeted for removal. After removal of the layer, no additional discolored soil was observed in the excavation bottom or sidewalls.

3.4 Confirmation Soil Sampling

After the completion of excavation activities, confirmation soil samples were collected from the sidewalls and bottom of the excavation. Sidewall samples were collected from the north, west, and south sides of the pit. No eastern sidewall sample was collected because the adjacent excavation on TIMET property to the east was deeper than the excavation on NERT property, thus no eastern sidewall was present. A bottom sample was collected from the bottom of the excavation in the approximate center of the excavation area. Confirmation soil sample locations are shown on Figure 2.

3.4.1 Confirmation Soil Sample Analyses

In accordance with the Work Plan (ENVIRON 2013) and the Site Management Plan (SMP) Appendix A (*ECA Summary*) (ENVIRON 2012a, 2012b), confirmation soil samples were analyzed for the constituents identified as being associated with ECA E3. The analytes included metals by USEPA Method 6010B (arsenic and manganese), hexavalent chromium by USEPA Method 7199, perchlorate by USEPA Method 314.0, PCBs by USEPA Method 8082, organochlorine pesticides by USEPA Method 8081A, inorganic ions by USEPA Method 9056 (nitrate, nitrite, and orthophosphate), sulfide by USEPA Method 9034, cyanide by USEPA Method 9014, pH by USEPA Method 9045C, and asbestos by USEPA Method 600/R-93/116.

3.4.2 Confirmation Soil Sample Analytical Results

Confirmation soil sample analytical results were tabulated and the results of chemical analyses were compared to SRGs. SRGs are based on NDEP BCLs in effect at the time of excavation (dated August 2013) except for arsenic, the SRG for which is based on the typical natural background concentration of arsenic in Site soils. All results were below SRGs with the exception of arsenic in the southern sidewall sample, which had a concentration of 7.3 milligrams per kilogram (mg/kg), which slightly exceeded the SRG of 7.2 mg/kg. Based on consultation with NDEP, the southern sidewall arsenic result was found to be acceptable provided that the results would be factored into future risk assessment calculations as part of the Remedial Investigation/Feasibility Study (RI/FS).

Asbestos analytical results indicated that no asbestos fibers were counted during the polarizing light microscopy (PLM) analysis of the samples.

Confirmation soil sample analytical results were provided by email to NDEP on October 11, 2013. Written approval of confirmation soil sample analytical results was received from NDEP on the same day. After receiving the approval, the excavation was backfilled and compacted, and the perimeter fencing and access roadway were restored as described in Section 4. Confirmation soil sample analytical results are presented in Table 3.

3.4.3 Validation of Confirmation Sample Analytical Reports

Data validation for chemical analytical data was provided by Laboratory Data Consultants, Inc. (LDC). A Data Validation Summary Report (DVSR) is provided as Appendix H.

4 Site Restoration

4.1 Backfill Methods

Imported fill materials were transported to the Site from the Buffalo Ranch quarry, located in Spring Valley, approximately 16 miles northwest of the Site, and west of Las Vegas, Nevada. During backfilling, the imported backfill materials were placed in maximum 12-inch loose lifts, moisture conditioned, and compacted to a minimum of 90 percent of maximum dry density and within 3 percent of optimum moisture content.

Cesare was subcontracted by ENVIRON to perform backfill placement oversight and soil compaction testing. Laboratory testing was performed on imported backfill material, including moisture/density relationships, plasticity index, expansion and particle size distribution. Field density and moisture content were determined after the compaction of each lift with a nuclear density gauge, in general accordance with the American Society for Testing and Materials (ASTM) D6938 test method. Approximate elevations and locations of the tests performed were referenced from survey elevations provided by Envirocon. Results of laboratory backfill testing, as well as field density and moisture content testing, are provided in the Summary Grading Report prepared by Cesare (provided in Appendix I).

Based on their field observations, field testing, and laboratory testing, Cesare concluded that preparation, placement and compaction of fill materials were performed in accordance with the geotechnical recommendations they had provided, which were included in the Work Plan (ENVIRON 2013).

4.2 Restoration of Perimeter Fence and Access Roadway

Following the completion of backfilling and compaction activities, the perimeter fence was restored to its original configuration by Fencing Specialists, Inc.

The backfilled and compacted area of the access roadway along the east side of the perimeter fence was re-graded and re-surfaced with road base gravel, thus restoring the roadway to its previous condition.

4.3 Demobilization

Upon completion of the Site activities, all of the equipment utilized by Envirocon was removed from the Site.

5 References

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Tables

TABLE 1
Soil Remediation Goals (SRGs)

Parameter of Interest	Chemical	Unit	NDEP 2013 Worker BCL ^a or Site-Specific Screening Level	Basis
Organic Acids	4-Chlorobenzenesulfonic acid	mg/kg	117	sat
	Benzenesulfonic acid	mg/kg	100,000	max
	Diethyl phosphorodithioic acid	mg/kg	90,800	N
	Dimethyl phosphorodithioic acid	mg/kg	100,000	max
	Phthalic acid	mg/kg	100,000	max
Organophosphate Pesticides	Azinphos-Methyl	mg/kg	--	--
	Bolstar	mg/kg	--	--
	Chlorpyrifos	mg/kg	2,050	N
	Coumaphos	mg/kg	--	--
	Demeton-O	mg/kg	--	--
	Demeton-S	mg/kg	--	--
	Diazinon	mg/kg	616	N
	Dichlorvos	mg/kg	6.6	C
	Dimethoate	mg/kg	--	--
	Disulfoton	mg/kg	27.4	N
	EPN	mg/kg	--	--
	Ethoprop	mg/kg	--	--
	Ethyl Parathion	mg/kg	4,100	N
	Famphur	mg/kg	--	--
	Fensulfothion	mg/kg	--	--
	Fenthion	mg/kg	--	--
	Malathion	mg/kg	13,700	N
	Merphos	mg/kg	--	--
	Methyl Parathion	mg/kg	171	N
	Mevinphos	mg/kg	--	--
	Naled	mg/kg	1,370	N
	Phorate	mg/kg	--	--
	Ronnel	mg/kg	34,200	N
	Stirophos	mg/kg	79.8 ^b	N
	Sulfotep	mg/kg	--	--
Thionazin	mg/kg	--	--	
Tokuthion	mg/kg	--	--	
Trichloronate	mg/kg	--	--	
Organochlorine Pesticides	4,4'-DDD	mg/kg	11.1	C
	4,4'-DDE	mg/kg	7.81	C
	4,4'-DDT	mg/kg	7.81	C
	Aldrin	mg/kg	0.113	C
	Alpha-BHC	mg/kg	270	C
	Alpha-chlordane	mg/kg	--	--
	Beta-BHC	mg/kg	53.9	C
	Delta-BHC	mg/kg	270	--
	Dieldrin	mg/kg	0.12	C
	Endosulfan I	mg/kg	4,100	--
	Endosulfan II	mg/kg	4,100	--
	Endosulfan Sulfate	mg/kg	4,100	--

TABLE 1
Soil Remediation Goals (SRGs)

Parameter of Interest	Chemical	Unit	NDEP 2013 Worker BCL ^a or Site-Specific Screening Level	Basis
	Endrin	mg/kg	205	N
	Endrin Aldehyde	mg/kg	--	--
	Endrin Ketone	mg/kg	--	--
	Gamma-BHC (Lindane)	mg/kg	898	C
	Gamma-chlordane	mg/kg	--	--
	Heptachlor	mg/kg	0.426	C
	Heptachlor Epoxide	mg/kg	0.21	C
	Methoxychlor	mg/kg	3,420	N
	Tech-Chlordane	mg/kg	7.19	C
	Toxaphene	mg/kg	1.74	C
SVOCs	1,4-Dioxane	mg/kg	19.2	C
	2-Methylnaphthalene	mg/kg	--	--
	Acenaphthene	mg/kg	2,560	N
	Acenaphthylene	mg/kg	147	sat
	Anthracene	mg/kg	9,920	N
	Benz(a)anthracene	mg/kg	2.34	C
	Benzo(a)pyrene	mg/kg	0.234	C
	Benzo(b)fluoranthene	mg/kg	2.34	C
	Benzo(g,h,i)perylene	mg/kg	34,100	N
	Benzo(k)fluoranthene	mg/kg	23.4	C
	bis(2-Ethylhexyl)phthalate	mg/kg	137	C
	Butyl benzyl phthalate	mg/kg	240	sat
	Chrysene	mg/kg	234	C
	Dibenz(a,h)anthracene	mg/kg	0.234	C
	Diethyl phthalate	mg/kg	100,000	max
	Dimethyl phthalate	mg/kg	100,000	max
	Di-N-Butyl phthalate	mg/kg	68,400	N
	Di-N-Octyl phthalate	mg/kg	--	--
	Fluoranthene	mg/kg	24,400	N
	Fluorene	mg/kg	3,670	N
	Hexachlorobenzene ^c	mg/kg	1.2	C
	Indeno(1,2,3-cd)pyrene	mg/kg	2.34	C
	Naphthalene	mg/kg	17.4	C
	Nitrobenzene	mg/kg	15.1	C
Octachlorostyrene	mg/kg	--	--	
Phenanthrene	mg/kg	24.5	sat	
Pyrene	mg/kg	19,300	N	
Pyridine	mg/kg	667	N	
VOCs	1,1,1,2-Tetrachloroethane	mg/kg	20.3	C
	1,1,1-Trichloroethane	mg/kg	1,390	sat
	1,1,2,2-Tetrachloroethane	mg/kg	2.59	C
	1,1,2-Trichloroethane	mg/kg	5.80	C
	1,1-Dichloroethane	mg/kg	23.3	C
	1,1-Dichloroethene	mg/kg	1,400	N
	1,1-Dichloropropene	mg/kg	--	--

TABLE 1
Soil Remediation Goals (SRGs)

Parameter of Interest	Chemical	Unit	NDEP 2013 Worker BCL ^a or Site-Specific Screening Level	Basis
	1,2,3-Trichlorobenzene	mg/kg	--	--
	1,2,3-Trichloropropane	mg/kg	0.106	C
	1,2,4-Trichlorobenzene	mg/kg	110	N
	1,2,4-Trimethylbenzene	mg/kg	671	N
	1,2-Dibromo-3-chloropropane	mg/kg	0.0583	C
	1,2-Dichlorobenzene	mg/kg	373	Sat
	1,2-Dichloroethane	mg/kg	2.41	C
	1,2-Dichloropropane	mg/kg	4.54	C
	1,3,5-Trimethylbenzene	mg/kg	254	sat
	1,3-Dichlorobenzene	mg/kg	373	Sat
	1,3-Dichloropropane	mg/kg	71.6	N
	1,4-Dichlorobenzene	mg/kg	14.3	C
	2,2-Dichloropropane	mg/kg	--	--
	2-Butanone	mg/kg	34,100	sat
	2-Chlorotoluene	mg/kg	511	sat
	2-Hexanone	mg/kg	2,150	N
	2-Methoxy-2-methyl-butane	mg/kg	--	--
	4-Chlorotoluene	mg/kg	--	--
	4-Isopropyltoluene	mg/kg	647	Sat
	4-Methyl-2-pentanone	mg/kg	17,200	Sat
	Acetone	mg/kg	100,000	Max
	Benzene	mg/kg	4.50	C
	Bromobenzene	mg/kg	695	N
	Bromochloromethane	mg/kg	--	--
	Bromodichloromethane	mg/kg	3.60	C
	Bromoform	mg/kg	242	C
	Bromomethane	mg/kg	42.9	N
	Carbon tetrachloride	mg/kg	4.07	C
	Chlorobenzene	mg/kg	695	Sat
	Chloroethane	mg/kg	1,100	C
	Chloroform	mg/kg	1.71	C
	Chloromethane	mg/kg	8.95	C
	cis-1,2-Dichloroethene	mg/kg	791	N
	cis-1,3-Dichloropropene	mg/kg	--	--
	Dibromochloromethane	mg/kg	6.15	C
	Dibromomethane	mg/kg	210	N
	Dichlorodifluoromethane	mg/kg	340	Sat
	Ethyl t-butyl ether	mg/kg	--	--
	Ethylbenzene	mg/kg	21.0	C
	Ethylene dibromide	mg/kg	0.185	C
	Hexachlorobutadiene	mg/kg	24.6	C
	Isopropyl ether	mg/kg	--	--
	Isopropylbenzene	mg/kg	647	Sat
	m p-	mg/kg	214	Sat
	Methyl tert butyl ether	mg/kg	216	C

TABLE 1
Soil Remediation Goals (SRGs)

Parameter of Interest	Chemical	Unit	NDEP 2013 Worker BCL ^a or Site-Specific Screening Level	Basis
	Methylene chloride	mg/kg	60.4	C
	Naphthalene	mg/kg	17.4	C
	N-Butylbenzene	mg/kg	237	Sat
	N-Propylbenzene	mg/kg	237	Sat
	o-Xylene	mg/kg	282	Sat
	sec-Butylbenzene	mg/kg	223	Sat
	Styrene	mg/kg	1,730	Sat
	t-Butyl alcohol	mg/kg	21,300	Sat
	tert-Butylbenzene	mg/kg	393	Sat
	Tetrachloroethene	mg/kg	3.28	C
	Toluene	mg/kg	521	Sat
	trans-1,2-Dichloroethylene	mg/kg	600	N
	trans-1,3-Dichloropropene	mg/kg	--	--
	Trichloroethene	mg/kg	5.49	C
	Trichlorofluoromethane	mg/kg	1,980	Sat
	Vinyl Chloride	mg/kg	1.86	C
	Xylenes, total	mg/kg	214	Sat
TPH	Oil Range Organics (TPH-oil)	mg/kg	100 ^d	--
	TPH-d	mg/kg	100 ^d	--
	TPH-g	mg/kg	100 ^d	--
PCBs	Aroclor-1016	mg/kg	23.6	C
	Aroclor-1221	mg/kg	0.826	C
	Aroclor-1232	mg/kg	0.826	C
	Aroclor-1242	mg/kg	0.826	C
	Aroclor-1248	mg/kg	0.826	C
	Aroclor-1254	mg/kg	0.826	C
	Aroclor-1260	mg/kg	0.826	C
	Total PCBs	mg/kg	0.826	C
	TCDD TEQ ^e	pg/g	2,700 ^f	C
General Chemistry	Cyanide	mg/kg	13,700	N
	Perchlorate	mg/kg	795	N
Dioxins/Furans	TCDD TEQ ^g	pg/g	2,700 ^f	C
Metals	Aluminum	mg/kg	100,000	Max
	Antimony	mg/kg	454	N
	Arsenic	mg/kg	7.2 ^h	--
	Barium	mg/kg	100,000	Max
	Beryllium	mg/kg	2,230	N
	Boron	mg/kg	100,000	Max
	Cadmium	mg/kg	1,110	N
	Chromium (III)	mg/kg	100,000	Max
	Chromium (VI)	mg/kg	1,360	C
	Cobalt	mg/kg	337	N
	Copper	mg/kg	42,200	N
	Iron	mg/kg	100,000	Max
	Lead	mg/kg	800 ⁱ	--

TABLE 1
Soil Remediation Goals (SRGs)

Parameter of Interest	Chemical	Unit	NDEP 2013 Worker BCL ^a or Site-Specific Screening Level	Basis
	Magnesium	mg/kg	100,000	Max
	Manganese	mg/kg	24,900	N
	Mercury	mg/kg	341	N
	Molybdenum	mg/kg	5,680	N
	Nickel	mg/kg	21,800	N
	Platinum	mg/kg	--	--
	Potassium	mg/kg	--	--
	Selenium	mg/kg	5,680	N
	Silver	mg/kg	5,680	N
	Sodium	mg/kg	--	--
	Strontium	mg/kg	100,000	Max
	Thallium	mg/kg	74.9 ⁱ	--
	Tin	mg/kg	100,000	Max
	Titanium	mg/kg	100,000	Max
	Tungsten	mg/kg	8,510	N
	Uranium	mg/kg	3,400	N
	Vanadium	mg/kg	5,680	N
	Zinc	mg/kg	100,000	Max
Asbestos	Long amphibole fibers Long chrysotile	fibers	1 or more ^j More than 5 ^j	--

a - From User's Guide and Background Technical Document for Nevada Division of Environmental Protection (NDEP) August 2013 Basic Comparison Levels (BCLs) for Human Health for the BMI Complex and Common Areas, Revision 12, August 2013 (<http://ndep.nv.gov/bmi/technical.htm>). Values listed are for the outdoor industrial/commercial worker.

b - BCL based on mixed isomer.

c - Hexachlorobenzene analyzed using both USEPA Methods 8081 and 8270. Data reported based on USEPA Method 8270 as it was deemed to be the superior method.

d - 100 mg/kg total TPH value used for screening.

e - TCDD equivalents based on WHO 2005 TEFs for the 12 co-planer PCBs; the detection limit was used for non-detect values.

f - Site-specific value.

g - TCDD equivalents based on WHO 2005 TEFs for the 17 dioxin and furan congeners.

h - Based on regional background concentrations.

i - A basis for the lead and thallium BCLs are not identified by NDEP.

j - Site-specific value.

C = Cancer

N = Noncancer

Sat = soil saturation

Max = risk-based value is greater than 100,000 mg/kg

-- = undefined

Table 2: Excavated Soil Volumes
East End of Beta Ditch Excavation
Nevada Environmental Response Trust (NERT) Site; Henderson, NV

Date	Soil and Construction Debris		Asbestos-Impacted Soil and Debris	
	Tons	Cubic Yards (Estimated)	Tons	Cubic Yards (Estimated)
10/2/2013	78.59	102.2	204.54	265.9
10/3/2013	350.88	456.1	101.76	132.3
10/4/2013	361.03	469.3	18.66	24.3
Total	790.5	1027.7	324.96	422.4

Notes:

Weight (tons) of soil/debris disposed was reported by Apex Landfill, as shown in the Truck Tickets Summary in Appendix F. Conversion from tons to cubic yards assumes approximately 1.3 tons per cubic yard.

Table 3: Confirmation Soil Sample Results
East End of Beta Ditch Excavation
Nevada Environmental Response Trust (NERT) Site; Henderson, NV

Analyte Group	Analyte	Bottom	North Sidewall	West Sidewall	South Sidewall	Site-Specific Criteria ¹
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Metals	Arsenic	4.3	5.4	5.4	7.3	7.2
	Manganese	470	550	740	1,100	24,900
	Chromium VI	ND<0.8	0.25 J	ND<0.79	0.52 J	1,360
Perchlorate	Perchlorate	0.92	46	42	6.2	795
PCBs	Total PCBs	ND<0.05	ND<0.049	ND<0.049	ND<0.99	0.826
Organochlorine Pesticides	4,4-DDT	0.015	0.023	0.003 J	0.94	7.81
	4,4-DDD	ND<0.005	ND<0.0049	ND<0.0049	0.013	11.1
	4,4-DDE	0.044	0.021	0.0049	1.3	7.81
	alpha-BHC	ND<0.005	ND<0.0049	ND<0.0049	0.0028 J	270
	beta-BHC	0.0021 J,p	0.017	0.0082	0.037	53.9
	Endrin ketone	ND<0.005	ND<0.0049	ND<0.0049	0.011	na
	Endosulfan II	ND<0.005	ND<0.0049	ND<0.0049	0.2	4,100
	Other Pesticides	ND	ND	ND	ND	N/A
Inorganic Ions	Nitrate	2.6	16	16	9.6	100,000
	Nitrite	ND<1.5	ND< 1.5	ND<1.5	ND<1.5	100,000
	Orthophosphate	ND<1.6 *	ND< 1.6 *	ND<1.6 *	ND<1.6 *	na
	Sulfide	ND<40	ND<40	ND<40	ND<40	na
	Cyanide	ND<0.5	ND<0.5	ND<0.5	ND<0.49	29.3
Wet Chemistry	pH	8.77	8.49	8.49	8.63	na
Asbestos	Bulk Asbestos	No Fibers Detected	No Fibers Detected	No Fibers Detected	No Fibers Detected	na

Notes

mg/kg: milligrams per kilogram

na: not available

N/A: not applicable

ND<##: not detected at or above the laboratory reporting limit shown

1: based on August 2013 NDEP Basic Comparison Levels (BCLs) except for arsenic, the criteria for which is based on typical natural background concentration.

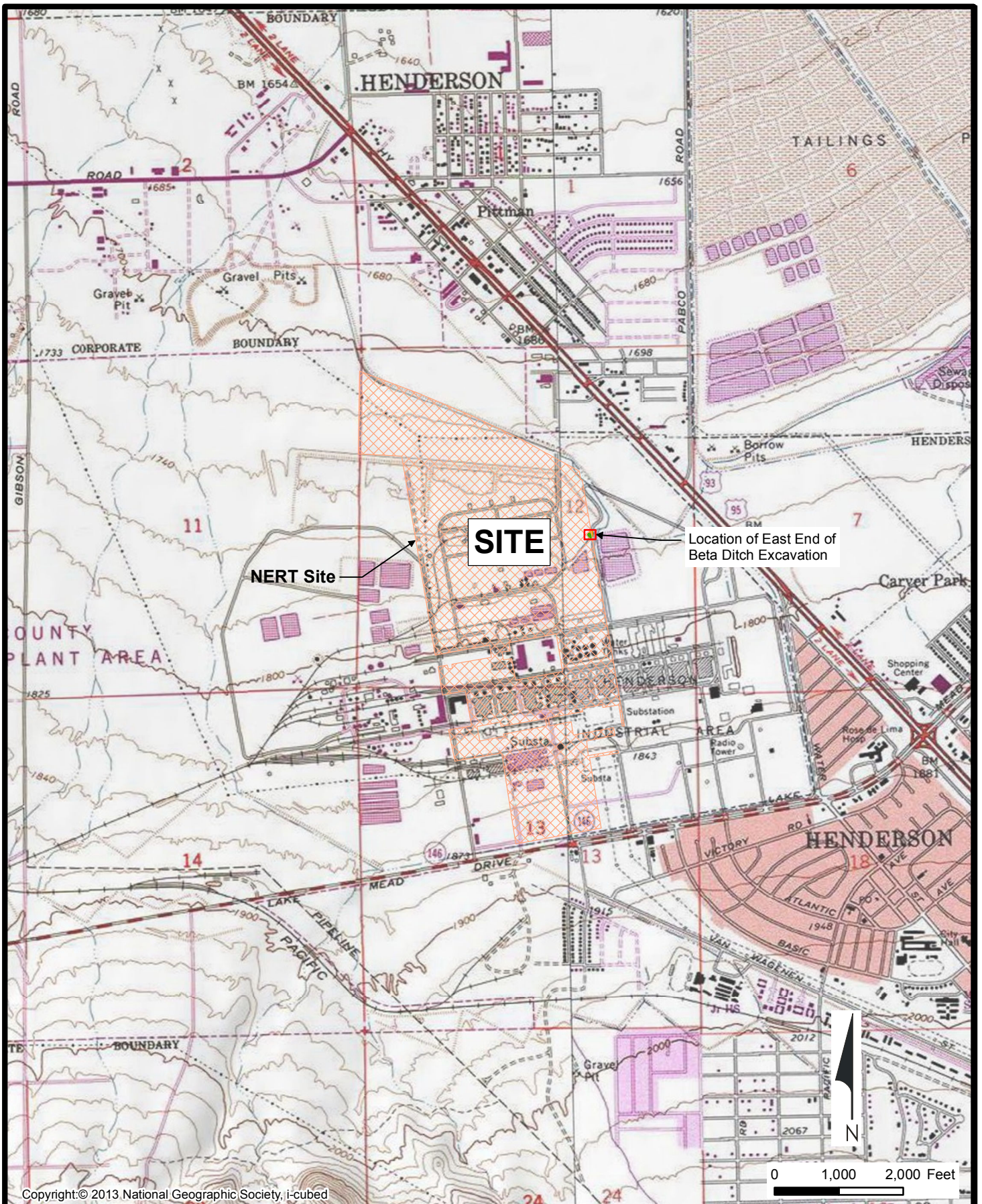
7.3: result exceeds site specific cleanup criteria (BCL or arsenic background value)

J: Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

p: The % RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

*: LCS or LCSD exceeds control limits.

Figures



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Project Location, East End of Beta Ditch Excavation
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure
1

Drafter: RS

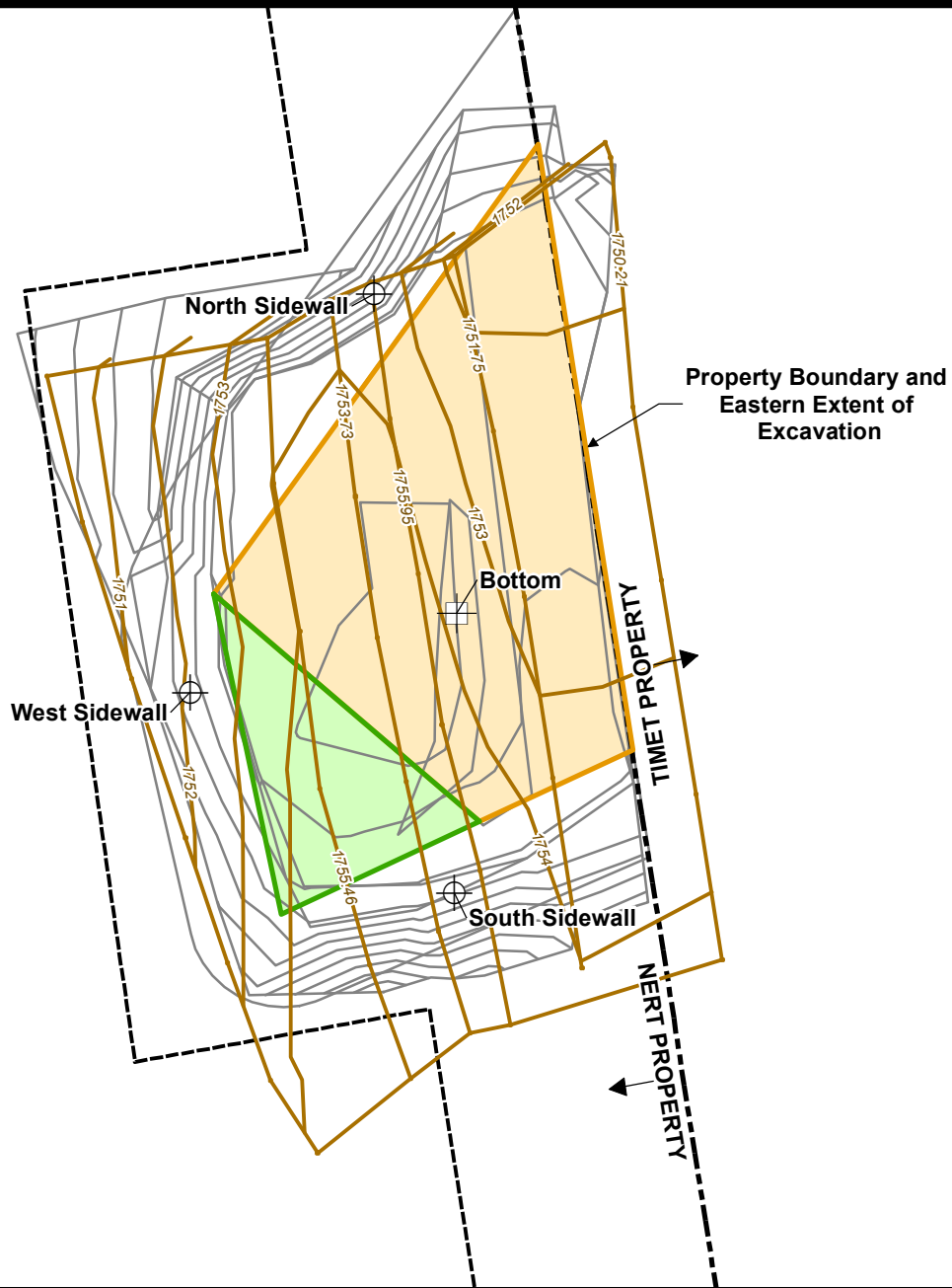
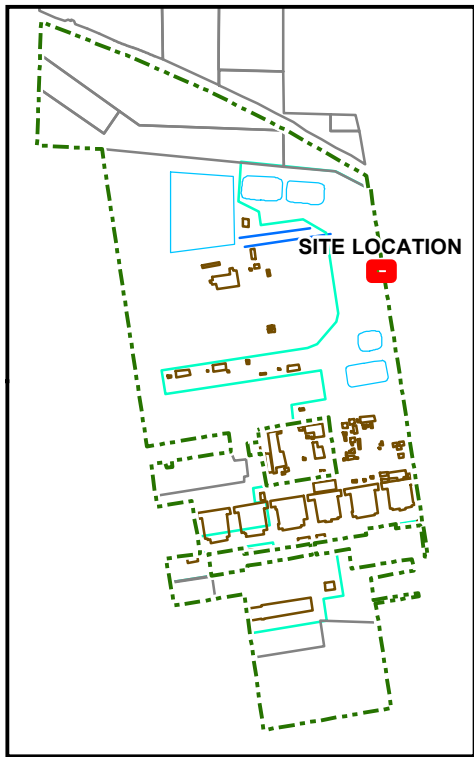
Date: 3/31/2014

Contract Number:

21-34800E (E01)

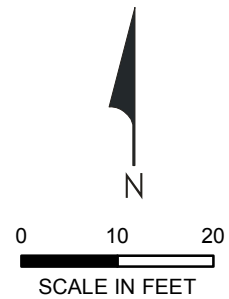
Approved:

Revised:



EXPLANATION:

- Re-located fence line during excavation
- Remaining Portion of RZ-E-16A Polygon
- RZ-E-16B Polygon
- ⊕ Confirmation Sample (sidewall)
- ⊕ Confirmation Sample (bottom)
- Topographic contours obtained from Envirocon survey data collected after completion of soil removal.



East End of Beta Ditch Excavation and Confirmation Sampling Locations
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure

2

Drafter: RS

Date: 3/31/2014

Contract Number:

21-34800E (E01)

Approved:

Revised:

Appendices

Appendix A
Photographic Log



Photo 1: Facing north. Removal of structures at east end of former Beta Ditch. October 1, 2013.



Photo 2: Facing northwest. Removal of culvert pipes from shallow soil adjacent to former structures. October 1, 2013.



Site Photographs

East End of Former Beta Ditch Excavation
Nevada Environmental Response Trust, Henderson, NV
October, 2013



Photo 3: Facing northwest. Excavation progress near end of second day. October 2, 2013.



Photo 4: Loading of asbestos-impacted soil into end-dump trailer lined with plastic sheeting. October 2, 2013.



Photo 5: Facing northeast. Containing transite pipe (containing asbestos) within plastic sheeting for disposal. October 3, 2013.



Photo 6: Facing west. Excavation progress toward end of third day. October 3, 2013.



Site Photographs

East End of Former Beta Ditch Excavation
Nevada Environmental Response Trust, Henderson, NV
October, 2013



Photo 7: Facing northwest. Excavation nearing completion on fourth day. October 4, 2013.



Photo 8: Removal of last remaining portion of Pittman Bypass Pipeline within excavation area. October 4, 2013.



Photo 9: Facing west. Completed excavation during confirmation soil sampling. October 7, 2013.



Photo 10: End of Pittman Bypass Pipeline terminating at excavation boundary. Pipeline was sealed with concrete and mortar. October 7, 2013.



Photo 11: Facing north. Excavation during backfilling and compaction. October 11, 2013.



Photo 12: Facing east. Compaction testing of backfill materials. October 11, 2013.



Photo 13: Facing west. Backfilling and compaction completed, final compaction testing in progress. October 14, 2013.



Photo 14: Facing north. Restoration of perimeter roadway after completion of backfilling and compaction. October 14, 2013.



Site Photographs

East End of Former Beta Ditch Excavation
Nevada Environmental Response Trust, Henderson, NV
October, 2013



Photo 15: Facing northeast. Resurfacing of perimeter roadway with gravel road base. October 15, 2013.



Photo 16: Facing north. Perimeter roadway after resurfacing. October 15, 2013.



Site Photographs

East End of Former Beta Ditch Excavation
Nevada Environmental Response Trust, Henderson, NV
October, 2013



Photo 17: Facing southeast. Installation of new perimeter security fence. October 18, 2013.



Photo 18: Facing northeast. New perimeter security fencing has been installed to complete the project. October 21, 2013.

Appendix B
Permits Obtained for the Remediation Program



Department of Air Quality

4701 W. Russell Rd. · Suite 200 · 2nd Floor
Las Vegas, NV · 89118
Main Number : (702) 455-5942
Fax Number : (702) 383-9994

* 42498-0-1 *

CLARK COUNTY • LAS VEGAS • NORTH LAS VEGAS • BOULDER CITY • HENDERSON • MESQUITE

DUST CONTROL PERMIT FOR CONSTRUCTION ACTIVITIES INCLUDING SURFACE GRADING AND TRENCHING

THIS PERMIT DOES NOT EXEMPT THE PERMITTEE FROM COMPLIANCE WITH THE ENDANGERED SPECIES ACT

Permit Number: **42498** Mod: **0** PAYMENT INFORMATION: 20131911
Fee: **\$2,058.00**

Permittee and Project Information

Permittee:	Environcon Inc.		
Permittee Address:	651 Corporate Circle Suite 114		
City, State, Zip:	Golden CO 80401	Fax No.:	3032150182
Project Name:	Titanium Metal Corporation - Northwest/Beta Ditch Excavation		
Project Address:	181 North Water Street		
Located In:	Township: 22	Range: 62	Section: 12 EO Area: ESE
Acreage This Mod:	14	Total Acreage:	14
Cross Streets:	West Warm Springs Road & N. Boulder Highway		

Project Contact(s)

Normal Hours:	Richard Whitman	After Hours:	Steve Peterson
Company:	Environcon Inc.	Company:	Environcon Inc.
Phone:	(801)450-9667	Phone:	(970)201-2335

Issue Date:	25-Jul-2013	Expiration Date:	25-Jul-2014
Notes	<input type="radio"/> Request Of Sign Waiver <input type="radio"/> Public Works Agreement <input type="radio"/> Closure Plan <input type="radio"/> Conditional Renewal		

DUST CONTROL MEASURES MUST OCCUR 24 HOURS A DAY, 7 DAYS A WEEK

THIS PERMIT IS NOT VALID UNTIL ALL FEES ARE PAID IN FULL AND A COMPLETE COPY IS ON THE PROJECT SITE, INCLUDING CONDITIONS OF PERMIT AND DUST MITIGATION PLAN

It is a condition of the issuance of any operating permit required by the commission or pursuant to any local ordinance for the control of air pollution that the holder of the operating permit agrees to permit inspection of the premises to which the permit relates by any authorized officer of the department at any time during the holder's hours of operation without prior notice. This condition must be stated on each application form and operating permit. NRS 445B.580.

The issuance of this PERMIT does not relieve the PERMITTEE from compliance with all other applicable federal, state, county and local ordinances and regulations. Issuance of this PERMIT shall not be a defense to violations of any applicable ordinances or regulations.

CLARK COUNTY • DEPARTMENT OF AIR QUALITY

4701 W. Russell Rd., Suite 200 • 2nd Floor • Las Vegas, NV 89118-2231
(702) 455-5942 • Fax (702) 383-9994

42498 290

For DAQ Use Only
Invoice Number: _____

RECEIVED
CC-DAQ

702 JUN 12 P 3:17

OK
mmw
07/24/13

**APPLICATION
DUST CONTROL PERMIT FOR CONSTRUCTION ACTIVITIES**

Blank spaces must be completed for the application to be processed. If not applicable, enter N/A.

If the project site has an expired permit or project was previously permitted list the previous permit number: N/A

1. Applicant/Permittee:

Property Owner Developer Prime Contractor Other _____

Name: Envirocon Inc.

Address: 651 Corporate Circle Suite 114

City: Golden State: CO Zip: 80401

Telephone: (303) 215-0187 Ext: _____ Fax: (303) 215-0182

E-mail Address: abuell@envirocon.com

2. Project:

Name: Titanium Metal Corporation - Northwest / Beta Ditch Excavation

Address: 181 North Water Street City: Henderson

Nearest major cross-streets: West Warm Springs Road & N. Boulder Highway

Township(s): 22 Range(s): 62 Section(s): 12

Assessor's Parcel number(s) (Attach map): 178-12-601-003 & 010; 178-12-701-002

Project Description: Excavation and removal of impacted soils - backfill excavated trench

Project Acreage: 14.0 acres (rounded to the nearest 0.1 acre, all land that will be disturbed must be included in project acreage)

Permit fees: If the project acreage listed above contains a fraction, the project acreage will be rounded up to the next whole number for fee purposes. The rounded up acreage (quantity) value will be used to assess the acreage fee for this permitting action.

Submit the total permit fee, with this application. Permit fees are non-refundable.

You must select one of the following three choices.

- This project does not require any offsite street or utility development.
- This project requires offsite street/utility development that is not included in this application, and will be added at a later date by modification or additional permit.
- This application includes offsite street/utility development. (Area must be marked on the accompanying parcel map. Check all that apply)

Utility Lateral less than 100 ft. greater than 100 ft. Half Street Full Street
 Curb / Entrance Entity Name and Number of Approved Offsite Plan / Permit / Easement: _____ Plan Pending Other

3. Property Owner (If not applicant):

Name: Titanium Metal Corporation

4. Point of Contact for dust control matters and to whom a NOTICE OF VIOLATION should be sent if necessary:

Name: Steve Peterson Company: Envirocon Inc.

Address: 651 Corporate Circle Suite 114

City: Golden State: CO Zip: 80401

Telephone: (303) 215-0187 Ext: _____ Fax: (303) 215-0187

Cellular/Pager: (970) 201-2335 After Hours Phone: (970) 201-2335

5. On-site Superintendent/Supervisor/Foreman contact:

Name: Richard Whitman Company: Envirocon Inc.

On-site phone: (801) 450-9667 Cellular/Pager: (801) 450-9667

DAQ Dust Class Certification/Card #: DC0613056 Expiration date: 6/7/16

Have all on-site supervisory personnel attended the DAQ Dust Class? Yes No

If no, all on-site supervisory personnel must attend a DAQ Dust Class within 30 days.

7. By signing this permit application I certify that:

- A. I am authorized, on behalf of the individual or company listed in Section 1, as Applicant/Permittee, to apply for their Dust Control Permit and to commit to all of the terms and conditions of the requested permit.
- B. Construction activities will be limited to lands that the applicant/permittee either owns or is authorized to use for construction activities. The permit issued subsequent to this application is not a substitute for obtaining the property owner's permission to use his land. Issuance of a Dust Control Permit is intended only for the purpose of controlling emissions of air pollutants and assuring compliance with Air Quality Regulations. The applicant/permittee agrees to hold harmless, indemnify, and defend Clark County, its employees and assigns from any claims that may arise due to any unauthorized use of land for construction activities.
- C. The permittee accepts responsibility for assuring that all contractors, subcontractors, and all other persons on the construction site covered by this permit, comply with the terms and conditions of the permit, the dust mitigation plan and all applicable Air Quality Regulations.
- D. The applicant/permittee understands that it is a condition of the permit that the permittee agrees to allow the inspection of the site for compliance with the terms and conditions of the permit and Air Quality Regulations at any time during the permittee's hours of operation by a DAQ officer without prior notice or at any time pursuant to the investigation of a complaint or upon direct observation of emission and/or failure to maintain Best Management Practices.
- E. I understand that any material misrepresentation made in this application may invalidate the permit and that Clark County may pursue enforcement action against me. In addition, I understand any willful misrepresentation may result in criminal penalties. I declare under penalty of perjury that the foregoing is true and correct.

Executed on:

6/12/13

DATE

Alan Buell

PRINTED NAME

SIGNATURE 

Project Director - Envirocon Inc.

TITLE AND COMPANY NAME

PAYMENT INFORMATION TO BE COMPLETED BY THE APPLICANT

PAYING BY

(Please Print)

CASH

CHECK

CHECK # 00817653

NAME AND ADDRESS AS IT APPEARS ON CHECK:

Envirocon

P.O. Box 16655

Missoula, MT 59808

Telephone #: (406) 523-1150

CREDIT CARD

LAST FOUR DIGITS OF CREDIT CARD NUMBER: _____

EXACT NAME AS IT APPEARS ON CREDIT CARD: _____

FOR DAQ USE ONLY

ISSUE DATE: 7/25/13 ISSUED BY: 99 42498 POS #: 2013190
DATE PAID: 09/12/13 RECEIVED BY: (Signature)

DAQ REVIEW: Allan Gutierrez DATE: 6/19/13
BLASTING APPROVAL (if applicable): _____ DATE: _____
DEMOLITION APPROVAL (if applicable): (Signature) DATE: 7-23-13
COMPLIANCE AREA ASSIGNMENT: ESF Hydrographic Area: 212
 Highway Other/Misc.

Protecting the air we share
Air Quality

CLARK COUNTY • DEPARTMENT OF AIR QUALITY

4701 W. Russell Rd., Suite 200 • 2nd Floor • Las Vegas, NV 89118-2231
(702) 455-5942 • Fax (702) 383-9994

DUST MITIGATION PLAN FOR ALL PROJECTS

Project Name: Titanium Metal Corporation - Northwest / Beta Ditch Excavation

Permittee Name: Envirocon Inc.

Identify the Project Soil "Particulate Emission Potential" (check all that apply):

Using silt and optimum moisture content to determine the particulate emission potential (PEP) is the preferred method.

PEP determined using generalized PEP determination maps included in the Dust Control Handbook.

PEP determined using silt vs. optimum moisture table in Figure 2 of the Dust Control Handbook.

Percentage of silt through a #200 sieve: % Optimum moisture content: %

PEP for this project is determined to be:

High Moderate High Moderate Low Low

Water source: Hydrant with Jones Valve Fire hose Water trucks/pulls Well
 Stand tanks Ponds Other: _____

PROJECT ACTIVITIES CHECKLIST

Instructions:

Place a check mark in the box to the right of each Project Activity that will occur on your project. If additional soil disturbing activities that are not on the checklist are to be included in the project, list them on a separate page and provide a description. For a more complete description of the listed activities, see the Control Measures Selection Pages (Form DCP 03) that follow or refer to the Best Management Practices for dust control in the Dust Control Handbook.

BMP 10 Disturbed Soil and BMP 20 Trackout Prevention and Cleanup must be marked for every Dust Mitigation Plan.

CONTROL MEASURES SELECTION PAGES

Instructions:

For each project activity that you have selected on the Project Activities Checklist you must include the corresponding Control Measures Selection Page. Read and understand each item listed as a "Requirement" on these included pages. Where control measure options are listed, place a check in the box in front of the control measure you will use to meet that requirement. You must select at least one control measure where a choice is listed. In addition you must select the control measure that corresponds to your PEP as listed above, if applicable.

NOTE: PROJECTS 10 ACRES AND LARGER MUST COMPLETE A SUPPLEMENT TO THE DUST MITIGATION PLAN (APPENDIX B-1 AND B-2).



Clark County Nevada Supplement to the Dust Mitigation Plan

**TIMET BETA DITCH
HENDERSON, NEVADA**

**Prepared for:
Clark County Dept. of Air Quality
4701 W. Russell Rd.
Suite 200
Las Vegas, NV 89118-2231
(702) 455-5942**

**Prepared by:
Envirocon, Inc.
651 Corporate Circle
Suite 114
Golden, CO 80401
(303) 215-0187**

June 12, 2013

DUST PLAN SUPPLEMENT**TABLE OF CONTENTS**

A.	Project Description	1
B.	Site Plan	1
C.	Additional Explanation of Control Measures	1
D.	Contingency Measures	2
E.	Soil Stabilization Measures.....	2
F.	Employee Dust Control Training and Compliance.....	3
G.	Plan Approval and Authority	4
H.	Figures	5



A. PROJECT DESCRIPTION

This project consists of the removal of 79,299 BCY of impacted soil from several drainage ditches at the Timet Property. As a portion of each ditch is remediated, it will be backfilled with clean soil, and graded to include a storm water basin and drain at the same areas the ditches currently drain. It is anticipated that 81,941 BCY of backfill will be required to achieve the final grade. The actual removal ditches are approximately 5 Acres in size. However, with the creation of parking and laydown areas, haul roads, and storm water controls, the total site disturbance may reach 14 Acres.

Envirocon intends to mobilize to the Site June 17th and the project will be complete by August 26th. Please see the attached GANNT Chart in Figure 1 for a detailed construction schedule. The total budget for dust control activities is approximately \$55,000. Please note that the cost for the water for the dust control activities is not in this number as it is being provided free of charge to Envirocon by the site owner, Titanium Metal Inc. during construction.

B. SITE PLAN

The project has been divided into six remedial zones, each consisting of three phases of operations. The first phase for each remedial zone is to install shoring for the excavation. The second phase of operation for each zone is excavation. The final stage is backfill and finish grading. It is important to note that these operations occur concurrently once each operation is sufficiently out in front of the next dependent operation. The construction GANNT Chart presented as Figure 1 indicates the following durations for these construction sequences:

- Shoring Installation & Removal: 42 Work Days
- Excavation: 44 Work Days
- Backfill and Final grading: 39 Work Days

The location of the haul routes, construction zones, and the construction trailers have been provided on Figure 2, Site Layout. Figure 2 also indicates the location of the wheel wash exit point for haul traffic as well as the water tank location and the areas to receive dust palliative at project completion.

C. ADDITIONAL EXPLANATION OF CONTROL MEASURES

Envirocon intends to utilize a water wagon with operator during active site work (10 to 12 hours per day), every day during the project to control dust at the Site. To adequately suppress dust, Envirocon will utilize the following means:

1. The onsite haul roads will be constructed with base course aggregate. A water wagon will then add water to the routes as needed to prevent dust, but not so much water as to create mud.



2. Haul traffic will heed a speed limit of 10 MPH.
3. The water wagon will also supply water to active excavation and backfill location and wet those areas to suppress the dust. Presoaking may occur at the removal areas, but not to the extent they pose a hazard to the shoring installation. Palliatives may be added as necessary to suppress the dust on backfilled soil areas.
4. A dedicated fire hydrant and drop tank will be at the site to ensure sufficient water is always available to expediently fill the water wagon.
5. Excavation personnel will load trucks in a manner that minimizes the drop height of soils to the extent practical.
6. Haul vehicles will tarp their loads.
7. A wheel wash will be utilized to prevent the offsite tracking of material. By using this wheel wash system, Envirocon does not anticipate the need for street sweeping. Should soil be tracked offsite onto a public road, it will be removed via street sweeper. Please see Figure 3 for the information sheet on the project wheel wash system.

D. CONTINGENCY MEASURES

Dust control measures will be monitored by several entities at the Site. The oversight Engineer, GEI Consultants and the Owner, Titanium Metals Inc. will also be monitoring dust in addition to monitoring performed by Envirocon's Dust Card qualified Superintendent and Dust Card qualified water wagon operators, and the Envirocon H&S officer. Given the impacts at the site, extensive monitoring beyond visible monitoring will occur, including the use of real-time particulate monitors. These monitors provide quantitative particulate data, beyond the qualitative data obtained from visual observation, and will be utilized to ensure the dust control measures are effective, and can be utilized to alert personnel to dust control deficiencies. Additionally, some personnel monitoring will occur, utilizing lapel time weighted monitors located within the breathing zone of high risk operators at the site. The results of these air samples will assist in determining if the dust control measures are effective. Should dust become problematic, the two approaches Envirocon intends to utilize to get the dust back under control are to add more water and add additional dust palliatives. Operations may need to be slowed until these two operations can get the dust controlled. Additional water addition may occur during non-working hours by the water wagon operator to add additional pre-soaking to the regimen.

E. SOIL STABILIZATION MEASURES

Prior to and during the active excavation / loading of transport trucks, water will be applied using the water wagon as mentioned above. If the soils encountered require further dust control measures based off particulate monitoring and/or the Site Superintendent, a dust palliative may be used. Envirocon will utilize DustGuard™ for a dust palliative should straight water not accomplish the proper dust control. DustGuard™ is an eco-friendly co-polymer soil binding product used nation-wide for erosion and dust control for a wide array of applications. This



product will also be utilized as the final soil stabilization product for the Beta Ditch Excavation Project.

DustGuard™ has a wide range of application rates, depending on soil types, expected traffic, and duration of protection requested. Should stockpiles of soils need to be left in place for an extended period of time, this dust palliative will be applied as a capping agent at 50 gallons per acre (30 gallons water to 1 gallon DustGuard™). At project completion, the final surfaces will be capped with a stronger solution of dust palliative at 100 gallons per acre (25 gallons water to 1 gallon DustGuard™). These solutions will be mixed and applied utilizing the onsite water wagon.

Although all areas requiring final stabilization are expected to be non-traffic areas, the application rate Envirocon plans to use will allow for light traffic without reapplication for 1 year. All inspections and documentation will be performed in accordance with the Clark County Dust Permit and as stated below.

See Figure 4 for the Data Sheet, MSDS, and Application Manual for DustGuard™.

F. EMPLOYEE DUST CONTROL TRAINING AND COMPLIANCE

Envirocon's Superintendent for this project has obtained a Clark County dust card. The superintendent is Mr. Richard Whitman, (801) 450-9667. Mr. Whitman will direct all field personnel, including operators, laborers, and drivers. Mr. Whitman will complete the Form attached as Figure 5 along with his Daily Activity log to document the dust control activities. Once the water wagon operators have been identified for this project, those drivers will also obtain training and their Dust Cards from the Clark County Air Quality Department.

In addition to the Superintendent, Envirocon will have a full time Project Manager (PM) on Site. The Envirocon PM has full authority for the project. This means that the PM can stop operations, direct new operations, and is the person responsible for addressing any violations. Mr. Steve Peterson (970) 201-2335 has been identified as the Site Project Manager.

Further, Envirocon utilizes Health and Safety Officers, who are independent of operational personnel. They report to the Corporate Health and Safety Manager, Mr. Joe Ocken. The HSO, has the authority to stop work, as do all individuals at Envirocon if they find an unsafe condition. The HSO's perform personnel monitoring, and other monitoring, such as air quality monitoring with the real-time particulate monitors. The HSO also maintains the Site personnel training records. At this Site, all personnel must have HAZWOPER training, and so the dust training certificates received by personnel will also be maintained onsite by the HSO. If the HSO identifies non-compliance with the dust policies, the HSO will direct the PM to correct the



situation. If the PM does not adequately address the problem, the HSO can then get a remedy via the Corporate Health and Safety chain of command. The HSO has not yet been identified for this project.

G. PLAN APPROVAL AND AUTHORITY

This plan is approved for implementation at the Timet Project.

Alan Buell

June 12, 2013

Alan Buell, Project Director

Date

PROJECT ACTIVITIES CHECKLIST

Project Name: Titanium Metal Corporation - Northwest / Beta Ditch Excavation

Permittee Name: Envirocon Inc.

PLACE A CHECK MARK NEXT TO EVERY ACTIVITY THAT WILL BE CONDUCTED ON THIS SITE, FOR EACH CHECKED ACTIVITY COMPLETE THE CORRESPONDING CONTROL MEASURES SELECTION PAGE AND INCLUDE WITH APPLICATION.

BMP	Project Activity	Check All That Apply
01	Backfilling Filling area previously excavated or trenched.	<input checked="" type="checkbox"/>
02	Blasting - Abrasive Sandblasting and/or abrasive blasting.	<input type="checkbox"/>
03	Blasting Soil & Rock Explosive blasting of soil and rock.	<input type="checkbox"/>
04	Clearing & Grubbing Clearing and grubbing for site preparation and vacant land cleanup.	<input checked="" type="checkbox"/>
05	Clearing Forms, Foundations and Slabs Clearing and cleaning of forms, foundations and slabs prior to pouring concrete.	<input type="checkbox"/>
06	Crushing Crushing of construction and demolition debris, rock and soil.	<input type="checkbox"/>
07	Cut and/or Fill Cut and/or fill soils for site grade preparation.	<input checked="" type="checkbox"/>
08	Demolition - Implosion Implosive demolition of a structure, using explosives.	<input type="checkbox"/>
09	Demolition - Mechanical/Manual Mechanical and manual demolition of walls, stucco, concrete, freestanding structures, buildings, load-bearing walls and/or removal of transit pipe	<input type="checkbox"/>
10	Disturbed Soil THIS ACTIVITY MUST BE SELECTED FOR ALL PROJECTS Disturbed soil throughout project including between structures.	<input checked="" type="checkbox"/>
11	Disturbed Land - Long Term Stabilization Large tracts of disturbed land that will not have continuing activity for more than 30 days.	<input type="checkbox"/>
12	Dust Suppressants - Selection and Use Selection and use of chemical and organic dust suppressing agents and other dust palliatives.	<input checked="" type="checkbox"/>
13	Importing/Exporting Materials Importing or exporting of soil, aggregate, decorative rock, debris, Type II and other bulk material.	<input checked="" type="checkbox"/>
14	Landscaping Installation of sod, decorative rock, desert or other landscape material.	<input type="checkbox"/>
15	Paving/Subgrade Preparation Subgrade preparation for paving streets, parking lots, etc.	<input type="checkbox"/>
16	Sawing/Cutting Material Sawing or cutting materials such as concrete, asphalt, block or pipe.	<input type="checkbox"/>
17	Screening Screening of rock, soil or construction debris.	<input type="checkbox"/>
18	Staging Areas Staging areas, equipment storage, vehicle parking lots, and material storage areas.	<input checked="" type="checkbox"/>
19	Stockpiles Stockpiling of materials, such as Type II, other soils, rock or debris, for future use or export.	<input type="checkbox"/>
20	Trackout Prevention and Cleanup THIS ACTIVITY MUST BE SELECTED FOR ALL PROJECTS Prevention and cleanup of mud, silt and soil tracked out onto paved roads.	<input checked="" type="checkbox"/>
21	Traffic - Unpaved Routes and Parking Construction related traffic on unpaved interior and/or access roads and unpaved employee/worker parking areas.	<input checked="" type="checkbox"/>
22	Trenching Trenching with track or wheel mounted excavator, shovel, backhoe or trencher.	<input type="checkbox"/>
23	Truck Loading Loading trucks with materials including construction and demolition debris, rock and soil.	<input checked="" type="checkbox"/>

CONTROL MEASURES SELECTION PAGES

Titanium Metal Corporation - Northwest / Beta Ditch Excavation

BACKFILLING

BMP 01

**YOU MUST SELECT AT LEAST ONE CONTROL MEASURE FOR EACH REQUIREMENT.
PLACE A CHECK IN THE BOX IN FRONT OF YOUR SELECTION.**

Requirement: Stabilize backfill material when not actively handling.

- 01-1 Water backfill material to maintain moisture or to form crust when not actively handling.
- 01-2 Apply and maintain a dust palliative to backfill material to form crust when not actively handling.
- 01-3 Cover or enclose backfill material when not actively handling.

Requirement: Stabilize backfill material during handling.

- 01-4 Empty loader bucket slowly and minimize drop height from loader bucket.
- 01-5 Dedicate water truck or large hose to backfilling equipment and apply water as needed.

Note: Select at least one of the above; in addition the appropriate control measure for your soil type must be selected from the following.

- 01-6 **L:** Mix moist soil with dry soil until the optimum moisture is reached.
- 01-7 **ML:** Apply and mix water into the backfill material until optimum moisture is reached.
- 01-8 **MH:** Apply and mix water and tackifier solution into the backfill material until optimum moisture is reached.
- 01-9 **H:** Apply and mix water and surfactant solution into the backfill material until optimum moisture is reached.

Requirement: Stabilize soil at completion of backfilling activity.

- 01-10 Apply water and maintain disturbed soils in a stable condition until permanent stabilization is complete.
- 01-11 Apply and maintain a dust palliative on disturbed soils to form a crust following backfilling activity.

Requirement: Stabilize material while using pipe padder equipment.

- 01-12 Mix moist soil with dry soil until the optimum moisture is reached.
- 01-13 Dedicate water truck or large hose to equipment and apply water as needed.

CONTROL MEASURES SELECTION PAGES

Titanium Metal Corporation - Northwest / Beta Ditch Excavation

CLEARING AND GRUBBING

BMP 04

**YOU MUST SELECT AT LEAST ONE CONTROL MEASURE FOR EACH REQUIREMENT.
PLACE A CHECK IN THE BOX IN FRONT OF YOUR SELECTION.**

Requirement: Stabilize surface soils where support equipment and vehicles will operate.

- 04-1 Pre-water and maintain surface soils in a stabilized condition where support equipment and vehicles will operate.
- 04-2 Apply and maintain a dust palliative on surface soils where support equipment and vehicles will operate.

Requirement: Stabilize soil during clearing and grubbing activities.

- 04-3 **L & ML:** Apply water during clearing and grubbing activities.
- 04-4 **MH:** Apply water and tackifier mixture during clearing and grubbing activities.
- 04-5 **H:** Apply water and surfactant mixture during clearing and grubbing activities.

Requirement: Stabilize disturbed soil immediately after clearing and grubbing activities.

- 04-6 Water disturbed soils to form crust immediately following clearing and grubbing activities.
- 04-7 Apply and maintain a dust palliative on disturbed soils to form crust immediately following clearing and grubbing activities.

Recommendations: Maintain live perennial vegetation and desert pavement where possible.

See also: BMP 11: DISTURBED LAND – Long-Term Stabilization, if no continuing activity will occur within 30 days.

CONTROL MEASURES SELECTION PAGES

Titanium Metal Corporation - Northwest / Beta Ditch Excavation

CUT AND FILL

BMP 07

**YOU MUST SELECT AT LEAST ONE CONTROL MEASURE FOR EACH REQUIREMENT.
PLACE A CHECK IN THE BOX IN FRONT OF YOUR SELECTION.**

Requirement: Stabilize surface soils where support equipment and vehicles will operate.

- 07-1 Pre-water and maintain surface soils in a stabilized condition where support equipment and vehicles will operate.
- 07-2 Apply and maintain a dust palliative to surface soils where support equipment and vehicles will operate.

Requirement: Pre-water soils.

- 07-3 Dig a test hole to depth of cut or equipment penetration to determine if soils are moist at depth. Continue to pre-water if not moist to depth of cut.
- 07-4 **L & ML:** Pre-water with sprinklers or wobblers to allow time for penetration.
- 07-5 **L & ML:** Pre-water with water trucks or water pulls to allow time for penetration.
- 07-6 **MH:** Pre-water with a water and tackifier mixture using sprinklers or wobblers to allow time for penetration.
- 07-7 **MH:** Pre-water with a water and tackifier mixture using water trucks or water pulls to allow time for penetration.
- 07-8 **H:** Pre-water with a water and surfactant mixture using sprinklers or wobblers to allow time for penetration.
- 07-9 **H:** Pre-water with a water and surfactant mixture using water trucks or water pulls to allow time for penetration.

Requirement: Stabilize soil during cut activities.

- 07-10 Apply water, using water truck or water pull, to depth of cut prior to subsequent cuts.
- 07-11 No cut activities fill only.

Requirement: Stabilize soil after cut and fill activities.

- 07-12 Water disturbed soils to form crust following fill and compaction.
- 07-13 Apply and maintain a dust palliative on disturbed soils to form crust following fill and compaction.

See also: **BMP 11: DISTURBED LAND – Long-Term Stabilization** if no continuing activity will occur within 30 days.

CONTROL MEASURES SELECTION PAGES

Titanium Metal Corporation - Northwest / Beta Ditch Excavation

DISTURBED SOIL

BMP 10

**YOU MUST SELECT AT LEAST ONE CONTROL MEASURE FOR EACH REQUIREMENT.
PLACE A CHECK IN THE BOX IN FRONT OF YOUR SELECTION.**

Requirement: For each non-linear project to be permitted for 5 acres or less; install perimeter wind barrier 3 feet or more in height made of material with a porosity of 50% or less.

Requirement: Limit vehicle traffic and disturbance of soils where possible.

- 10-1 Limit vehicle traffic and disturbance of soils with the use of fencing, barriers, barricades, and/or wind barriers.

Requirement: Stabilize and maintain stability of all disturbed soil throughout construction site.

Note: You must choose one or more of the following.

- 10-2 Apply water to stabilize disturbed soils. Soils must be kept in a sufficiently damp, crusted or covered condition.
- 10-3 Apply and maintain a dust palliative based on soil type and future plans.

Requirement: Soil conditions, including preventive and corrective measures, must be recorded every day the construction project is active.

- 10-4 Record soil conditions and dust control actions in daily project records.

Recommendations: If interior block walls are planned, install as early in the construction as possible.

See also: BMP 11: DISTURBED LAND – Long-Term Stabilization, if no continuing activity will occur within 30 days.

CONTROL MEASURES SELECTION PAGES

Titanium Metal Corporation - Northwest / Beta Ditch Excavation

DUST PALLIATIVE – Selection and Use

BMP 12

**YOU MUST SELECT AT LEAST ONE CONTROL MEASURE FOR EACH REQUIREMENT.
PLACE A CHECK IN THE BOX IN FRONT OF YOUR SELECTION.**

Requirement: Follow AQD “Interim Policy on Dust Palliatives Use In Clark County, Nevada”.

Requirement: Record use of suppressants and dust palliatives and retain records.

Requirement: Follow applicable federal and state regulations.

Requirement: Select method of long-term stabilization taking into consideration future land use.

- 12-1 For traffic area applications use Table 1: Traffic Area Application Requirements, Appropriate Use of Liquid Dust Palliatives and Application Rates, from the Interim Policy on Dust Palliatives Use In Clark County, Nevada.
- 12-2 For non-traffic area applications use Table 2: Non-Traffic Area Application Requirements, Appropriate Use of Liquid Dust Palliatives and Application Rates, from the Interim Policy on Dust Palliatives Use In Clark County, Nevada.

CONTROL MEASURES SELECTION PAGES

Titanium Metal Corporation - Northwest / Beta Ditch Excavation

IMPORTING/EXPORTING SOIL, ROCK AND OTHER BULK MATERIAL

BMP 13

**YOU MUST SELECT AT LEAST ONE CONTROL MEASURE FOR EACH REQUIREMENT.
PLACE A CHECK IN THE BOX IN FRONT OF YOUR SELECTION.**

Requirement: Limit visible dust opacity from vehicular operations.

- 13-1 Apply water and limit vehicle speeds to 15 mph on the work site.
- 13-2 Apply and maintain dust suppressant on haul routes.

Requirement: Check belly-dump truck seals regularly and remove any trapped rocks to prevent spillage.

Requirement: Maintain 3-6 inches of freeboard to minimize spillage.

Requirement: Stabilize materials during transport on site.

- 13-3 Use tarps or other suitable enclosures on haul trucks.
- 13-4 Stabilize materials with water.

Requirement: Clean wheels and undercarriage of haul trucks prior to leaving construction site.

Recommendations: Verify State and local laws, concerning the hauling of bulk materials on public roadways.

See also: BMP 20: TRACKOUT PREVENTION AND CLEANUP.

BMP 23: TRUCK LOADING.

CONTROL MEASURES SELECTION PAGES

Titanium Metal Corporation - Northwest / Beta Ditch Excavation

STAGING AREAS

BMP 18

**YOU MUST SELECT AT LEAST ONE CONTROL MEASURE FOR EACH REQUIREMENT.
PLACE A CHECK IN THE BOX IN FRONT OF YOUR SELECTION.**

Requirement: Limit visible dust opacity from vehicular operations.

- 18-1 Limit vehicle speeds to 15 mph in the staging area and on all unpaved access routes.
- 18-2 Apply and maintain dust suppressant on all vehicle traffic areas in the staging areas and unpaved access routes.

Requirement: Stabilize staging area soils during use.

- 18-3 Pre-water and maintain surface soils in a stabilized condition where support equipment and vehicles will operate.
- 18-4 Apply and maintain a dust palliative to surface soils where support equipment and vehicles will be operated.

Requirement: Stabilize staging area soils at project completion.

- 18-5 Apply a dust palliative.
- 18-6 Apply screened or washed Type II aggregate.
- 18-7 Use wind breaks in accordance with a site-specific plan approved by the Control Officer and Region IX Administrator of the EPA.
- 18-8 Pave with thin paving.
- 18-9 Completed project will cover staging area with buildings, paving, and/or landscaping.
- 18-10 Apply water to form adequate crust and prevent access.

Recommendations: Limit size of staging areas.

Limit ingress and egress points.

See also: BMP 20: TRACKOUT PREVENTION AND CLEANUP

CONTROL MEASURES SELECTION PAGES

Titanium Metal Corporation - Northwest / Beta Ditch Excavation

TRACKOUT PREVENTION AND CLEANUP

BMP 20

**YOU MUST SELECT AT LEAST ONE CONTROL MEASURE FOR EACH REQUIREMENT.
PLACE A CHECK IN THE BOX IN FRONT OF YOUR SELECTION.**

Requirement: In soils that have a PEP classification of "High", pave construction activities roadways as early as possible.

Requirement: Use of soil to create a ramp for vehicle access over a curb is prohibited.

Requirement: Trackout conditions, including preventive and corrective measures, must be recorded daily for every day that the construction project access is used by vehicles.

- 20-1 Record soil conditions and dust control actions in daily project records.

Requirement: Prevent dust from trackout.

- 20-2 Immediately clean trackout from paved surfaces to maintain dust control. Trackout must not extend 50 feet or more.
- 20-3 Maintain dust control during working hours and clean trackout from paved surfaces at the end of the work shift/day. Trackout must not extend 50 feet or more and must be cleaned daily, at minimum.

Requirement: Install and maintain trackout control devices in effective condition at all access points where paved and unpaved access or travel routes intersect.

- 20-4 Install gravel pad(s) consisting of 1" to 3" rough diameter, clean, well-graded gravel or crushed rock. Minimum dimensions must be 30 feet wide by 3 inches deep, and, at minimum, 50' or the length of the longest haul truck, whichever is greater. Re-screen, wash or apply additional rock in gravel pad to maintain effectiveness.
- 20-5 Install wheel shakers. Clean wheel shakers on a regular basis to maintain effectiveness.
- 20-6 Install wheel washers. Maintain wheel washers on a regular basis to maintain effectiveness.
- 20-7 Install wheel shakers in the event that trackout cannot be controlled with gravel pads.
- 20-8 Install wheel washer in the event that trackout cannot be controlled with gravel pads and wheel shakers.
- 20-9 Motorized vehicles will only operate on paved surfaces.

(Continued on next page)

CONTROL MEASURES SELECTION PAGES

Requirement: All exiting traffic must be routed over selected trackout control device(s).

- 20-10 Clearly establish and enforce traffic patterns to route traffic over selected trackout control device(s).
- 20-11 Limit site accessibility to routes with trackout control devices in place by installing effective barriers on unprotected routes.

CONTROL MEASURES SELECTION PAGES

Titanium Metal Corporation - Northwest / Beta Ditch Excavation

TRAFFIC – Unpaved Routes and Parking Areas

BMP 21

**YOU MUST SELECT AT LEAST ONE CONTROL MEASURE FOR EACH REQUIREMENT.
PLACE A CHECK IN THE BOX IN FRONT OF YOUR SELECTION.**

Requirement: Limit visible dust opacity from vehicular operations.

- 21-1 Limit vehicle speeds to 15 mph on all unpaved routes and parking areas.
- 21-2 Apply and maintain dust palliative on all vehicle travel areas.

Requirement: Stabilize all haul routes.

- 21-3 Apply water to haul routes and maintain in a stabilized condition.
- 21-4 Apply a dust palliative to haul routes and maintain in a stabilized condition.
- 21-5 Apply gravel to haul routes and maintain in a stabilized condition.
- 21-6 Supplement dust palliative or aggregate applications with watering, if necessary.

Requirement: Stabilize all off-road and parking areas.

- 21-7 Apply water to off-road traffic and parking areas and maintain in a stabilized condition.
- 21-8 Apply gravel to off-road traffic and parking areas and maintain in a stabilized condition.
- 21-9 Apply recycled asphalt (or other suitable material) to off-road traffic and parking areas and maintain in a stabilized condition.
- 21-10 Apply and maintain a dust palliative (designed for vehicle traffic) to off-road traffic and parking areas and maintain in a stabilized condition.

Recommendations: Use of bumps or dips for speed control is encouraged.

Apply paving as soon as possible to all future roadway areas for PEP categories other than "High".

CONTROL MEASURES SELECTION PAGES

Titanium Metal Corporation - Northwest / Beta Ditch Excavation

TRUCK LOADING

BMP 23

**YOU MUST SELECT AT LEAST ONE CONTROL MEASURE FOR EACH REQUIREMENT.
PLACE A CHECK IN THE BOX IN FRONT OF YOUR SELECTION.**

Requirement: Ensure all loads are covered prior to leaving the construction site and traveling on public roadways.

Requirement: Stabilize surface soils where loaders, support equipment and vehicles will operate.

- 23-1 Pre-water and maintain surface soils in a stabilized condition where loaders, support equipment and vehicles will operate.
- 23-2 Apply and maintain a dust palliative on surface soils where loaders, support equipment and vehicles will operate.

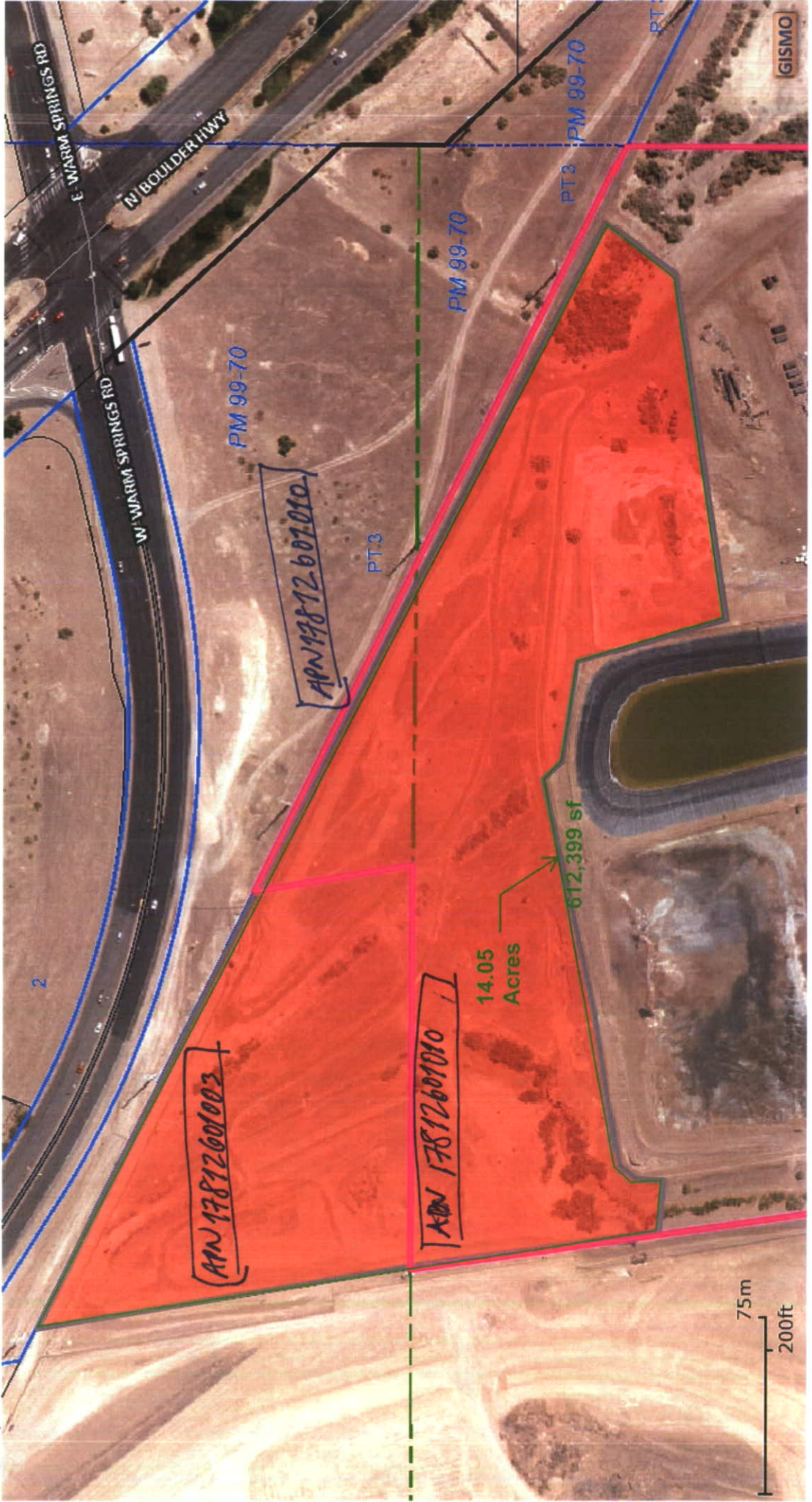
Requirement: Stabilize material during loading.

- 23-3 Empty loader bucket slowly and keep loader bucket close to the truck to minimize the drop height while dumping.

Note: You must selected 23-3 if PEP is greater than LOW, in addition one of the following must be selected.

- 23-4 **L & ML:** Mix material with water prior to loading.
- 23-5 **L & ML:** Spray material with water while loading.
- 23-6 **MH:** Mix material with a water and tackifier mixture prior to loading.
- 23-7 **MH:** Spray material with a water and tackifier mixture while loading.
- 23-8 **H:** Mix material with a water and surfactant mixture prior to loading.
- 23-9 **H:** Spray material with a water and surfactant mixture while loading.

DCP 42498 - 14.0 Acres (AFS) 6/19/13

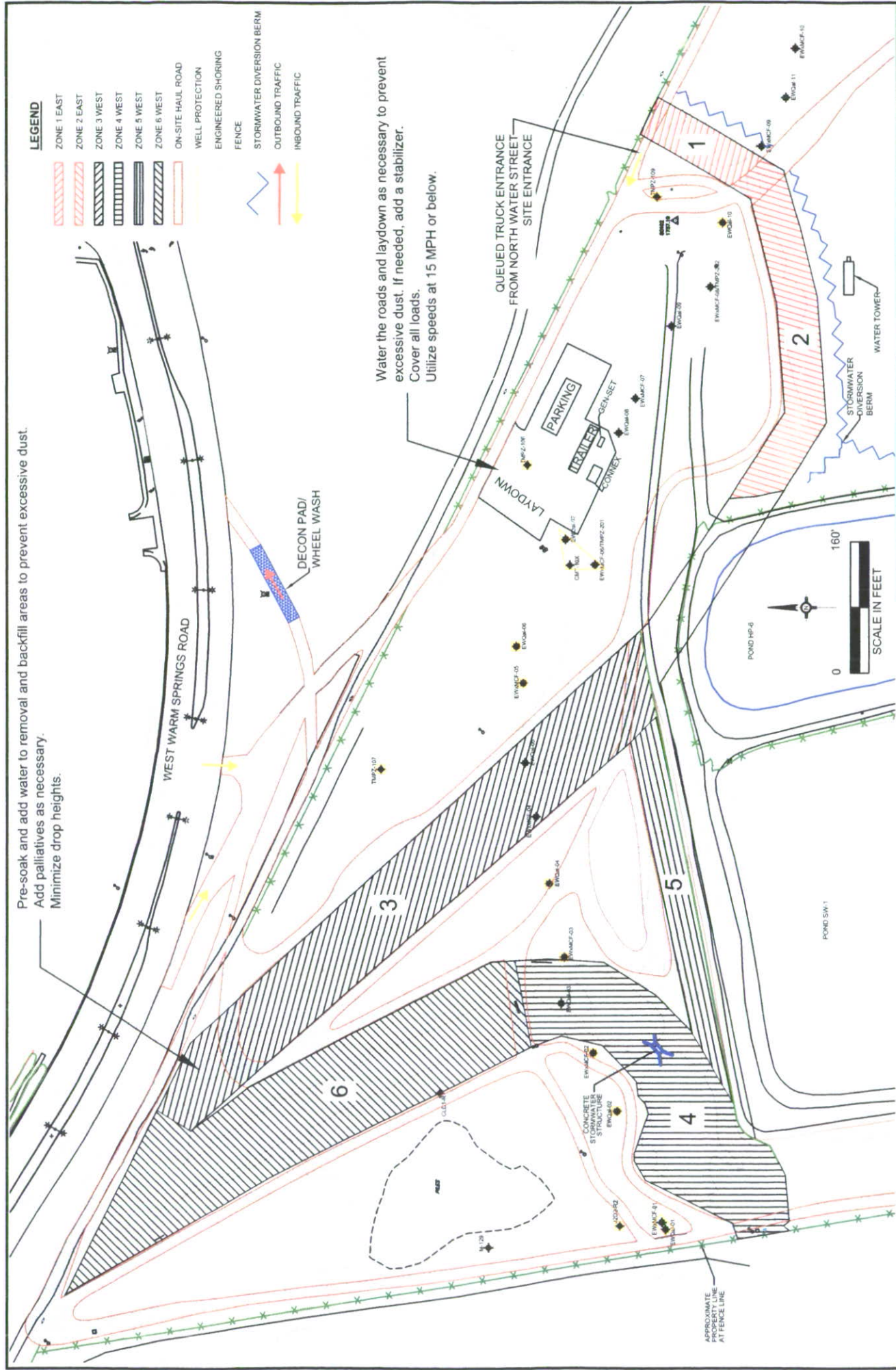


4725498

Pre-soak and add water to removal and backfill areas to prevent excessive dust.
 Add palliatives as necessary.
 Minimize drop heights.

Water the roads and laydown as necessary to prevent excessive dust. If needed, add a stabilizer.
 Cover all loads.
 Utilize speeds at 15 MPH or below.

- LEGEND**
- ZONE 1 EAST
 - ZONE 2 EAST
 - ZONE 3 WEST
 - ZONE 4 WEST
 - ZONE 5 WEST
 - ZONE 6 WEST
 - ON-SITE HAUL ROAD
 - WELL PROTECTION
 - ENGINEERED SHORING
 - FENCE
 - STORMWATER DIVERSION BERM
 - OUTBOUND TRAFFIC
 - INBOUND TRAFFIC



NOTE:
 The roads will be offset an appropriate amount from the shoring. All features shown herein are subject to field fit by the Envirocon Project Superintendent. Turnouts may be added where needed to accommodate traffic. The haul roads are graded 2% away from the excavation to simultaneously serve as stormwater diversion features for the excavation. Stormwater will pond interior to these structures. The total site disturbance anticipated by Envirocon is 16.5 Acres, of which 5.0 Acres are the remedial areas. Haul roads will be watered utilizing a water wagon. Stabilizer and/or palliatives may be added to the roads and excavation areas to suppress dust. The roads are constructed of base course. The wheel wash will prevent off site migration of soil.

Prepared By: **Envirocon**
 651 Corporate Circle
 Suite 114
 Golden, Colorado 80401

DES	GEI
DWG	GGE
CHK	EI
PROPOSAL #	8462

**TIMET BETA DITCHES
 SITE LAYOUT**



Department of Air Quality

4701 W. Russell Rd. · Suite 200 · 2nd Floor
Las Vegas, NV · 89118
Main Number : (702) 455-5942
Fax Number : (702) 383-9994

* 42498-1-1*

CLARK COUNTY • LAS VEGAS • NORTH LAS VEGAS • BOULDER CITY • HENDERSON • MESQUITE

DUST CONTROL PERMIT FOR CONSTRUCTION ACTIVITIES INCLUDING SURFACE GRADING AND TRENCHING

THIS PERMIT DOES NOT EXEMPT THE PERMITTEE FROM COMPLIANCE WITH THE ENDANGERED SPECIES ACT

Permit Number: **42498** Mod: **1** PAYMENT INFORMATION: 000879 Fee: **\$33.40**

Permittee and Project Information

Permittee:	Environcon Inc.		
Permittee Address:	651 Corporate Circle Suite 114		
City, State, Zip:	Golden CO 80401	Fax No.:	3032150182
Project Name:	Titanium Metal Corporation - Northwest/Beta Ditch Excavation		
Project Address:	181 North Water Street		
Located In:	<i>Township: 22</i>	<i>Range: 62</i>	<i>Section: 12</i> EO Area: ESE
Acreage This Mod:	0	Total Acreage:	14
Cross Streets:	West Warm Springs Road & N. Boulder Highway		

Project Contact(s)

Normal Hours:	Richard Whitman	After Hours:	Steve Peterson
Company:	Environcon Inc.	Company:	Environcon Inc.
Phone:	(801)450-9667	Phone:	(970)201-2335

Issue Date:	10-Sep-2013	Expiration Date:	25-Jul-2014
Notes	<input type="radio"/> Request Of Sign Waiver <input type="radio"/> Public Works Agreement <input type="radio"/> Closure Plan <input type="radio"/> Conditional Renewal		
<div style="border: 1px solid black; padding: 5px;"> Adding BMP 20 </div>			

DUST CONTROL MEASURES MUST OCCUR 24 HOURS A DAY, 7 DAYS A WEEK

THIS PERMIT IS NOT VALID UNTIL ALL FEES ARE PAID IN FULL AND A COMPLETE COPY IS ON THE PROJECT SITE, INCLUDING CONDITIONS OF PERMIT AND DUST MITIGATION PLAN

It is a condition of the issuance of any operating permit required by the commission or pursuant to any local ordinance for the control of air pollution that the holder of the operating permit agrees to permit inspection of the premises to which the permit relates by any authorized officer of the department at any time during the holder's hours of operation without prior notice. This condition must be stated on each application form and operating permit. NRS 445B.580.

The issuance of this PERMIT does not relieve the PERMITTEE from compliance with all other applicable federal, state, county and local ordinances and regulations. Issuance of this PERMIT shall not be a defense to violations of any applicable ordinances or regulations.

CLARK COUNTY • DEPARTMENT OF AIR QUALITY

4701 W Russell Rd, Suite 200 • 2nd Floor • Las Vegas, NV 89118-2231
 (702) 455-5942 • Fax (702) 383-9994

Mod on Job

For DAQ Use Only
Invoice Number <u>000879</u>
RECEIVED CC-DAQ
2013 SEP -6 P 1: 28

APPLICATION FOR DUST CONTROL PERMIT MODIFICATION

Submit applicable fee per Section 18 of the Air Quality Regulations

1. **PERMIT INFORMATION:** Permit Number: 42498-0-1

Applicant/Permittee: ENVIROCON INC

Project Name: TITANIUM METALS CORP. NORTHWEST/BETA DITCH EXCAVATION

Email Address: SPETERSON@ENVIROCON.COM

2. **IS MODIFICATION REQUESTED AS A RESULT OF A NOTICE (NON/CSI)?** Yes No

3. **INFORMATION TO BE MODIFIED:**

Control Measures:

Attach Control Measure Selection Pages (DCP03) for all modifications.

Project Acreage:

Acreage to be added: _____ Acreage to be removed: _____

Attach a revised Assessor's Parcel Map showing the originally permitted area and the area to be added/removed.

Supplemental Forms:

Blasting Demolition Portable Source: List permit number and/or company.

Attach Supplemental forms and Control Measure Selection Pages.

Other:

ADDING BMP 20-4

Attach modifications and/or current information.

4. **SUBMITTED BY:**

[Signature]
Signature

STEVEN J. PETERSON
Print Name

ENVIROCON INC. PROJECT MANAGER
Company Name/Title

970 201 2335
Phone Number

9/6/2013
Date

5. **APPROVED BY:**

[Signature]
DAQ Permitting Approval

9/9/2013
Date

DAQ Asbestos/Removal Approval

Date

MODIFICATIONS SUBMITTED ON THIS FORM DO NOT CHANGE THE EXPIRATION DATE OF THE PERMIT.

ACREAGE ADDED WILL EXPIRE ON THE SAME DATE AS THE CURRENT PERMIT EXPIRATION.

TRACKOUT PREVENTION AND CLEANUP

BMP 20

**YOU MUST SELECT AT LEAST ONE CONTROL MEASURE FOR EACH REQUIREMENT.
PLACE A CHECK IN THE BOX IN FRONT OF YOUR SELECTION.**

Requirement: In soils that have a PEP classification of "High", pave construction activities roadways as early as possible.

Requirement: Use of soil to create a ramp for vehicle access over a curb is prohibited.

Requirement: Trackout conditions, including preventive and corrective measures, must be recorded daily for every day that the construction project access is used by vehicles.

- 20-1 Record soil conditions and dust control actions in daily project records.

Requirement: Prevent dust from trackout.

- 20-2 Immediately clean trackout from paved surfaces to maintain dust control. Trackout must not extend 50 feet or more.
- 20-3 Maintain dust control during working hours and clean trackout from paved surfaces at the end of the work shift/day. Trackout must not extend 50 feet or more and must be cleaned daily, at minimum.

Requirement: Install and maintain trackout control devices in effective condition at all access points where paved and unpaved access or travel routes intersect.

- 20-4 Install gravel pad(s) consisting of 1" to 3" rough diameter, clean, well-graded gravel or crushed rock. Minimum dimensions must be 30 feet wide by 3 inches deep, and, at minimum, 50' or the length of the longest haul truck, whichever is greater. Re-screen, wash or apply additional rock in gravel pad to maintain effectiveness.
- 20-5 Install wheel shakers. Clean wheel shakers on a regular basis to maintain effectiveness.
- 20-6 Install wheel washers. Maintain wheel washers on a regular basis to maintain effectiveness.
- 20-7 Install wheel shakers in the event that trackout cannot be controlled with gravel pads.
- 20-8 Install wheel washer in the event that trackout cannot be controlled with gravel pads and wheel shakers.
- 20-9 Motorized vehicles will only operate on paved surfaces.

(Continued on next page)



Department of Air Quality

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* 42498-2-1*

CLARK COUNTY • LAS VEGAS • NORTH LAS VEGAS • BOULDER CITY • HENDERSON • MESQUITE

DUST CONTROL PERMIT FOR CONSTRUCTION ACTIVITIES INCLUDING SURFACE GRADING AND TRENCHING

THIS PERMIT DOES NOT EXEMPT THE PERMITTEE FROM COMPLIANCE WITH THE ENDANGERED SPECIES ACT

Permit Number: **42498** Mod: **2** PAYMENT INFORMATION: 001036

Fee: **\$180.40**

Permittee and Project Information

Permittee:	Environcon Inc.		
Permittee Address:	651 Corporate Circle Suite 114		
City, State, Zip:	Golden CO 80401	Fax No.:	3032150182
Project Name:	Titanium Metal Corporation - Northwest/Beta Ditch Excavation		
Project Address:	181 North Water Street		
Located In:	<i>Township: 22</i>	<i>Range: 62</i>	<i>Section: 12</i> EO Area: ESE
Acreage This Mod:	1	Total Acreage:	15
Cross Streets:	West Warm Springs Road & N. Boulder Highway		

Project Contact(s)

Normal Hours:	Richard Whitman	After Hours:	Steve Peterson
Company:	Environcon Inc.	Company:	Environcon Inc.
Phone:	(801)450-9667	Phone:	(970)201-2335

Issue Date:	01-Oct-2013	Expiration Date:	25-Jul-2014
Notes	<input type="radio"/> Request Of Sign Waiver <input type="radio"/> Public Works Agreement <input type="radio"/> Closure Plan <input type="radio"/> Conditional Renewal		
<div style="border: 1px solid black; padding: 5px; min-height: 40px;"> Add acreage </div>			

DUST CONTROL MEASURES MUST OCCUR 24 HOURS A DAY, 7 DAYS A WEEK

THIS PERMIT IS NOT VALID UNTIL ALL FEES ARE PAID IN FULL AND A COMPLETE COPY IS ON THE PROJECT SITE, INCLUDING CONDITIONS OF PERMIT AND DUST MITIGATION PLAN

It is a condition of the issuance of any operating permit required by the commission or pursuant to any local ordinance for the control of air pollution that the holder of the operating permit agrees to permit inspection of the premises to which the permit relates by any authorized officer of the department at any time during the holder's hours of operation without prior notice. This condition must be stated on each application form and operating permit. NRS 445B.580.

The issuance of this PERMIT does not relieve the PERMITTEE from compliance with all other applicable federal, state, county and local ordinances and regulations. Issuance of this PERMIT shall not be a defense to violations of any applicable ordinances or regulations.

Protecting the air we share

Air Quality

CLARK COUNTY • DEPARTMENT OF AIR QUALITY

4701 W. Russell Rd., Suite 200 • 2nd Floor • Las Vegas, NV 89118-2231
 (702) 455-5942 • Fax (702) 383-9994

For DAQ Use Only	
Invoice Number:	
001036	
RECEIVED	
CC-DAQ	
2013 SEP 20 P 2: 19	

mod # 02 2110

APPLICATION FOR DUST CONTROL PERMIT MODIFICATION

Submit applicable fee per Section 18 of the Air Quality Regulations

1. PERMIT INFORMATION: Permit Number: 42498 - 0 - 1

Applicant/Permittee: ENVIROCON INC.

Project Name: NERT EAST END OF BETA DITCH

Email Address: ASIMMONS@ENVIROCON.COM

2. IS MODIFICATION REQUESTED AS A RESULT OF A NOTICE (NON/CSI)? Yes No

3. INFORMATION TO BE MODIFIED:

Control Measures:

Attach Control Measure Selection Pages (DCP03) for all modifications.

Project Acreage:

Acreage to be added: 1 Acreage to be removed: _____

Attach a revised Assessor's Parcel Map showing the originally permitted area and the area to be added/removed.

Supplemental Forms:

Blasting Demolition Portable Source: List permit number and/or company.

Attach Supplemental forms and Control Measure Selection Pages.

Other: APN 1781280100P (APB) 9/26/13

Attach modifications and/or current information.

4. SUBMITTED BY:

[Signature]
Signature

STEVE PETERSON
Print Name

ENVIROCON INC. PROJECT MANAGER
Company Name/Title

(970) 201-2335 9-20-2013
Phone Number Date

5. APPROVED BY:

Allan F. Gutierrez, Jr. 9/26/13
DAQ Permitting Approval Date

DAQ Asbestos/Removal Approval Date

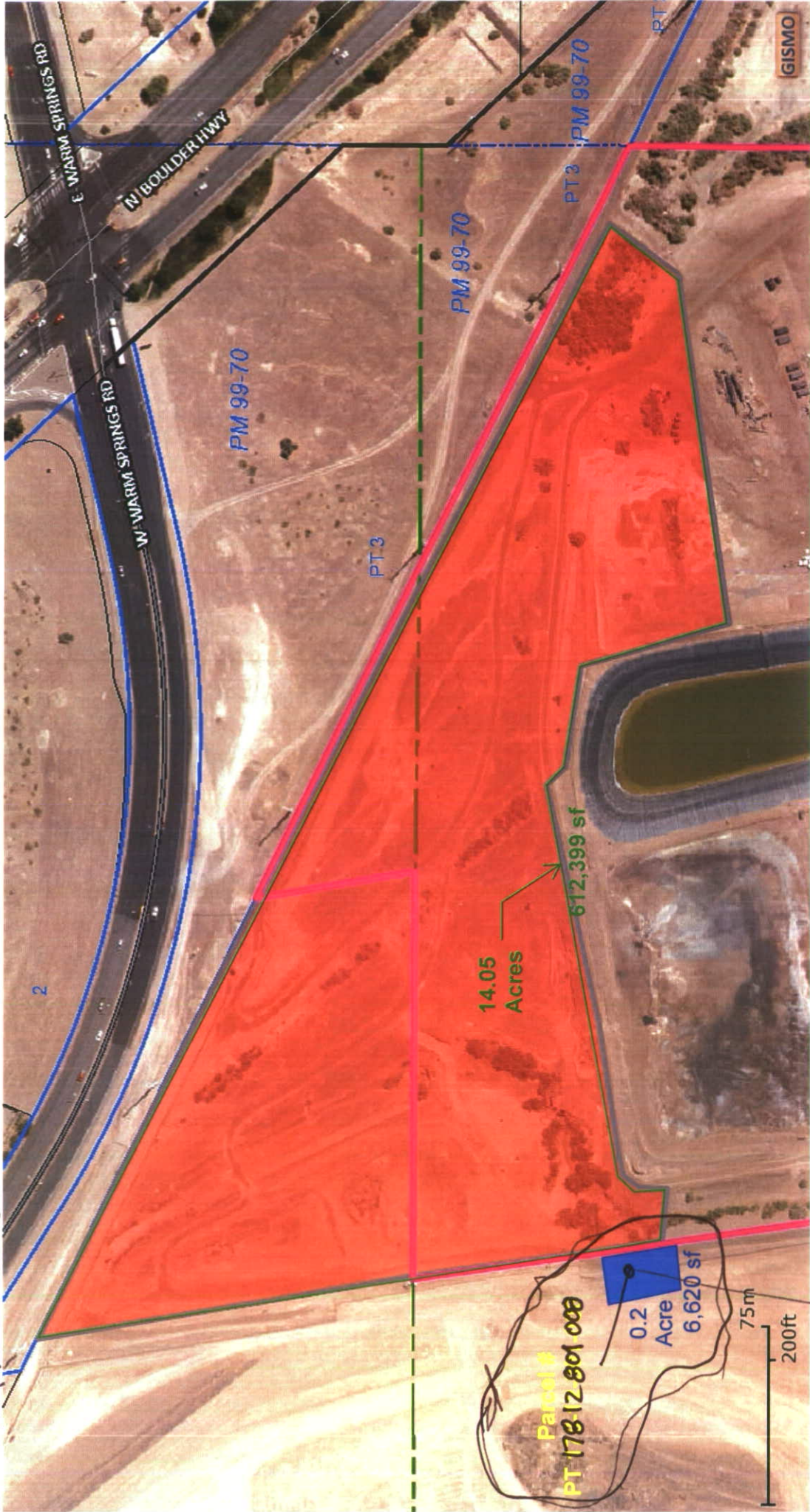
MODIFICATIONS SUBMITTED ON THIS FORM DO NOT CHANGE THE EXPIRATION DATE OF THE PERMIT.

ACREAGE ADDED WILL EXPIRE ON THE SAME DATE AS THE CURRENT PERMIT EXPIRATION.



NERT - East of Beta Ditch Parcel Map & Area Delineation

42498 Mod 02



Parcel #
PT 178.12.801.000

AFG 9/26/13

ESE

**PERMIT CLOSURE
 CERTIFICATE OF PROJECT COMPLETION**

Submit completed form to DAQ or FAX to (702) 383-9994

1. PERMIT INFORMATION:

Permit Number: 42498 Mod.2 Project Name: Timet - NW/Beta Ditch Excavation
 Applicant/Permittee: Envirocon Inc.
 Project Address/Location: 181 North Water Street

2. CLOSURE INFORMATION:

Permittee Statement

By submitting this form I verify no further soil disturbing construction activities will occur at the above referenced location. All project soils designated in the Dust Control Permit have been permanently stabilized by the following method(s) (Check all that apply):

- Permitted area built out – no disturbed soil areas remain.
- Application of ground cover / dust palliative.
- <1/4 acre disturbed soil remains.
- Dust Control Permit #: _____ has replaced this permit for any remaining disturbed areas.

I further verify I have inspected the site for the following items, with the results indicated:

- Unpaved roads or easements are remaining on or accessing the permitted site. Yes No
- Unpaved areas remain on the site that could be used for parking or storage lots. Yes No

Print Name: Andrew N. Simmons Date: 10/18/2013

Send me this form upon completion of inspection. Yes No, if yes FAX #: _____

or Email address asimmons@envirocon.com

DAQ use only

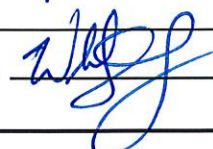
Inspection Results

Are any unpaved roads, easements or parking/storage lots on the permitted site? Yes No

An inspection by a DAQ Enforcement Officer has been performed with the following results:

- Construction has ceased and the entire site has been adequately treated for long-term stabilization (PASS)
- Construction has ceased, but the site has not been adequately treated for long-term stabilization in certain areas (FAIL)
- Construction has ceased, but the site has not been adequately treated for long-term stabilization (FAIL)
- This project will require an ATC/OP for the following equipment: _____
- This permit replaced with permit(s) # _____

Notes: Project complete

Enforcement Officer:  Whitney Francis Date: 10/22/13

Rev by _____

WILL HAND DELIVER
THIS AFTERNOON



DAQEM

DEPARTMENT OF AIR QUALITY & ENVIRONMENTAL MANAGEMENT

500 S. Grand Central Pkwy 1st Fl • PO Box 555210 • Las Vegas, Nevada 89155-5210

Office (702) 455-5942 • Fax (702) 383-9994

**NESHAP
NOTIFICATION OF ASBESTOS ABATEMENT**

Operator Project # _____ Project Number: 130352

1. Type of Notification: Revision # 6

2. Facility Information:

Owner's Name: Titanium Metals Corp.

Owner's Address: PO Box 2128

City: Henderson

State: NV

Zip Code: 89009

Contact Person: Alan Buell

Office Number: (702) 564-2544

Cellular Number: (406) 689-2012

Fax: (702) 564-1704

Email address: abuell@envirocon.com

3. Removal Contractor:

Company Name: Walker Specialty Construction, Inc.

Address: 6428 Windy Road

City: Las Vegas

State: NV

Zip Code: 89119

Contact Person: Brett Unbedacht

Office Number: (702) 243-2500

Cellular Number: (702) 612-9195

Fax: (702) 243-6052

Email address: melissau@wsclasvegas.net

4. Other Operator/Consultant:

Company Name: GEI Consultants

Address: 955 Challenger Drive, Suite A

City: Green Bay

State: WI

Zip Code: 54311

Contact Person: George Onorato

Office Number: (202) 609-7678

Cellular Number: (813) 404-6688

Fax: _____

Email address: gonorato@geiconsultanats.com

5. Type of Operation: Renovation

PNR Year: _____

6. Description of ACM type and nature:

Asbestos Containing Soil (40,000 Cu Ft)
Added Asbestos Containing Soil (12,000 Cu Ft)

* Adding Asbestos Containing Soil (400 Cu Ft)

7. Facility Description:

Building Name: Timet

Building Address: 181 North Water Street

City: Henderson

State: NV

Zip Code: 89009

Specific Work Location: Beta Ditch

Building Size: _____ Number of Floors: _____ Structure age in years: _____

Present use: Industrial Prior use: Industrial

8. Procedure Used To Detect Presence Of ACM: PLM

9. Approximate Amounts of Asbestos:

Amount of RACM to be removed

Amount of non-friable ACM to be Removed
Category I Category II

Amount of non-friable ACM to Remain
Category I Category II

	Amount of RACM to be removed	Amount of non-friable ACM to be Removed Category I	Amount of non-friable ACM to be Removed Category II	Amount of non-friable ACM to Remain Category I	Amount of non-friable ACM to Remain Category II
Pipe (linear ft.)	_____	_____	_____	_____	_____
Surface (sq. ft.)	_____	_____	_____	_____	_____
* Volume (cu. ft.)	<u>52,400</u>	_____	_____	_____	_____

Note: This notice must be revised if the amount of RACM changes by 20%.
For two (2) or more structures; detail types and amounts of ACM on a separate sheet of paper.

* 10. Scheduled Dates of Asbestos Abatement/Removal

Start Date: 10/02/13

End Date: 10/08/13

11. Expected Hours of Abatement Operation:

Start Time: 7:30

AM

End Time: 4:00

PM

12. Description of work practices and engineering controls to prevent emissions. Check all that apply:

- | | | | |
|---------------------------------|-------------------------------------|---------------------------------|-------------------------------------|
| Full Containment | <input type="checkbox"/> | Critical Barriers | <input type="checkbox"/> |
| 3 Stag Decon | <input type="checkbox"/> | Glove Bag | <input type="checkbox"/> |
| Maintain Adequately Wet | <input checked="" type="checkbox"/> | Amended Water | <input checked="" type="checkbox"/> |
| Negative Air Pressure | <input type="checkbox"/> | Number of Negative Air Machines | _____ |
| Hand removal of non-friable ACM | <input checked="" type="checkbox"/> | Mechanical removal of ACM | <input checked="" type="checkbox"/> |
| | | Machines: <u>Excavator</u> | |

Other Work Practices:

13. Waste Transporter:

Company Name: Werdco Trucking

Address: 4660 Flippin Street

City: Las Vegas

State: NV

Zip Code: _____

Contact Person: _____

Office Number: (702) 645-5848

Cellular Number: _____

Fax: _____

Email address: _____

14. Waste Disposal Site:
Company Name: Apex Landfill
Address: 13550 North US 93
City: Apex State: NV Zip Code: 89124
Contact Person: _____
Office Number: (702) 599-5920 Cellular Number: _____ Fax: _____
Email address: _____

15. If Demolition ordered by a Government Agency, identify below and attach a copy of the order:
Agency Name: _____
Address: _____
City: _____ State: select Zip Code: _____
Contact Person: _____
Office Number: _____ Cellular Number: _____ Fax: _____
Email address: _____

16. Emergency Renovations: Submit a letter by the authorizing agency for the work:

Date and Time of the Emergency: Date: _____ Time: _____

Description of the sudden UNEXPECTED Event:

Explanation of how the event caused an unsafe condition:

17. Description of procedures to be followed in the event that unexpected asbestos is found or previously non-friable asbestos material becomes crumbled, pulverized, or reduced to powder.

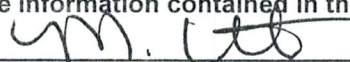
Stop work & notify appropriate agencies

18. An individual trained in the provisions of the regulation (40 CFR Part 61 Subpart M) will be on site during this project and will have evidence that the required training has been accomplished.

Yes No

CERTIFICATION

19. I certify that the information contained in this notification (sections 1 through 18) are current and correct.

Signature: 

Date: 10/02/13

Printed Name: Melissa Unbedacht



SOUTHERN NEVADA HEALTH DISTRICT

Permit to Transport Asbestos

AUTHORITY: Nevada Administrative Code 444.965-444.976

Permit Number:

ATP13-072204

Expires 01/07/2014

1. Waste Asbestos Contractor:

Walker Specialty Construction, Inc.
5428 Windy Rd.
Las Vegas, NV 89119
NV Contractor License No. (Type): 0047312, A-23
Contact Name: Brett Unbedacht
Telephone No. 702-243-2500

2. Waste Asbestos Generation Site:

TIMET
181 N. Water Street
Henderson, NV -89009
Contact Name: Alan Buell
Telephone No. 406-698-2012

3. Transporter:

Werdco Trucking
4660 Flippin St.
Las Vegas, NV 89110
NVDOT No.: 811231
License No.: 811231
Contact Name: Alan Buell
Telephone No.: 702-645-5848

4. Waste Disposal/Temporary Storage Site:

Apex Landfill
Operated by: Republic Services
13550 North US 93
Apex, NV 89124

Contact Name: Rob Tidwell
Telephone No.: 702-423-2128

5. Projected Start and Completion Dates:

Start Date: August 01, 2013

Completion Date: December 31, 2013

6. Description(s) of Waste Asbestos for Removal and Disposal:

Asbestos Containing Soil. (300 Cubic Feet)

7. Limitations and Conditions:

- a. This Permit is valid only for above described waste asbestos generated at the site during the dates specified above, as amended and/or extended by the Southern Nevada Health District. The generator, and all subcontractors, must operate in accordance with the compliance procedure submitted pursuant to NAC 444.972 as approved and/or amended by the Southern Nevada Health District.
- b. As required, a Notification of Demolition and Renovation for Asbestos Removal must be submitted to the Clark County Department of Air Quality and Environmental Management.
- c. The dates stipulated in Section 5 and the description(s) in Section 6 may be amended by, and at the sole discretion of, the Southern Nevada Health District. Application for such must be made before the ending of the Completion Date above. In no case shall more than two extensions of the start/completion dates be granted.
- d. This Permit is granted based on the information provided in the application submitted in accordance with NAC 444.965 through 976, and any supplements approved by the Solid Waste Management Authority, and may be modified by the District if the statutes or regulations upon which the approval is based change, or if a modification is otherwise necessary in the interest of public health and safety, and the environment. Any discrepancies between information contained in the application and the actual operation of the transporter may be grounds for immediate revocation of this Permit and/or appropriate enforcement action. The waste asbestos generator must inform the Southern Nevada Health District of any circumstance(s) which may affect their, or any of their subcontractors', ability to comply with the requirements of this Permit, applicable regulations, or other legal requirements.-

Signature:

Name and Title:

Dennis Campbell, R.E.H.S.,
Environmental Health Manager

Date:

August 2, 2013



Clark County Department of Development Services



PERMIT

4701 West Russell Rd • Las Vegas NV 89118

(702) 455-3000

IMPORTANT: Always use the permit number below when requesting inspections or information concerning this permit.

PERMIT NUMBER	PHONE SYSTEM NUMBER	INTERNET PIN NUMBER	ISSUE DATE
10-33981 6D6	13641956	021231	2/08/11
PROJECT NAME	SUBDIVISION		
BLACK MOUNTAIN INDUSTRIAL PARK			

PARCEL NO: 178-13-501-001 RANGE-TOWNSHIP-SECTION 62-22-13

SITE ADDRESS: 560 W LAKE MEAD PKWY
 TENANT NAME: BLACK MOUNTAIN INDUSTRIAL TENANT NO:

PROPERTY OWNER: TRONOX L L C
 CONTRACTOR: LAS VEGAS PAVING CORPORATION

PERMIT: GRADING 100,001-OR MORE CY
 GRADING-COMMERCIAL VALUATION: 0
 COMMERCIAL SHORT
 GRADING ONLY//NO BUILDING//SOIL
 REMEDIATION ONLY CODE YEAR: 2006

UNITS/RMS: 0 SQ FOOTAGE: 0 NO. STORIES: 0 QAA: no
 OCCUPANCY: TYPE OF CONST: SPRINKLER: OCC LD:

PMT DETAIL: QTY ITEM
 1.00 100,000 + CY.
 29.00 100,000 + CY./ADD CY

FEE SUMMARY	CHARGED	PAID PREV	PAID
PERMIT FEE	1332.72	.00	1332.72
ZONING PC FEE	133.27	.00	133.27
GRADING PLAN REVIEW-BLD	413.40	413.40	.00
		TOTAL PAID	1465.99
		PAYMENT TYPE	CHECK
		NUMBER	69111

CONDITIONS OF PERMIT

I agree to build according to declared description, approved plans, specifications and the Clark County Code. I also agree to call 455-3000 for required inspections as each construction phase is completed.

LICENSED CONTRACTORS DECLARATION

I hereby affirm that I am licensed under the provisions of NRS 624.283

Contractor Signature

OWNER-BUILDER DECLARATION

I, as owner of the property upon which I am requesting to build or improve a structure, and the structure to be built or improved is a residential structure which I intend to occupy. I do not intend to sell said structure or transfer ownership of said structure at least until I occupy the premises for a period of one year under NRS 624.031. I intend to act as my own contractor and I understand that I am liable to criminal prosecution under 624.212 if I engage in business as a contractor without a license and will not be exempt from license requirement as outlined in NRS 624.031.

Applicant Signature

Date

Issued By

2/08/11

PAMELA

THIS PERMIT BECOMES NULL AND VOID if work or construction is not commenced within 180 days from date of issuance, or work is suspended or abandoned for a period of 180 days any time after work is commenced.

CUSTOMER COPY

CLARK COUNTY DESERT CONSERVATION PROGRAM

LAND DISTURBANCE / MITIGATION FEE FORM

- OFFICIAL USE ONLY -

All project proponents in the permit area are required to complete this form and submit it to the appropriate local agency. Authorization to develop property will not be granted by the local agency until this form has been submitted and is accepted as complete. The project proponent is responsible for securing all signatures required below and for accurately providing all required information.

Receipt #: _____
Project #: 10-33981
City / County: _____

PROPERTY SITE DESCRIPTION

Assessor's Parcel Number(s): 178-12-201 003

OR
Legal Description (Attach Separate Sheet If Required): _____

Legal Description includes: Township _____; Range _____; _____ 1/4 _____ 1/4 _____ 1/4 _____ of Section _____ (This will provide a property description to the nearest ten acres: 640 ac./sec * 1/64 sec. = ten acres). This information is available on County or City plat maps for the subject property. Provide property address and nearest major street intersection if existing. Also describe landmarks (e.g., shopping centers, railroad tracks, power lines or other unique features) with directions and distances to or from said landmarks.

Type of Development Permit Being Sought: DESERT PERMIT ONLY

TOTAL ACREAGE IN PARCEL: 346.00 NUMBER OF ACRES WITHIN PARCEL TO BE DISTURBED: 00.00

CITY OR TOWN LOCATION: _____

PROPERTY OWNER - PRINT NAME SIGNATURE DATE

160 ST WAKELAND DR LAS VEGAS NV 702-651-2200
ADDRESS, CITY, STATE, ZIP TELEPHONE NUMBER

U.S. ENVIRONMENTAL SIGNATURE DATE

PROJECT PROPONENT - PRINT NAME SIGNATURE DATE

200 W. WALKER BLVD LAS VEGAS NV 702-796-1212
ADDRESS, CITY, STATE, ZIP TELEPHONE NUMBER

- FOR OFFICIAL USE ONLY -

Acres within Parcel to be developed verified by: <input checked="" type="checkbox"/> a. Building Department <input type="checkbox"/> b. Public Works <input type="checkbox"/> c. Zoning <input type="checkbox"/> d. Health District	Mitigation Fee Assessed: <u>0.00</u> ac. x \$550 = \$ <u>00.00</u>
	Compliance Report Fee (Administrative Fee) \$ <u>00.00</u>
	TOTAL FEES PAID \$ <u>00.00</u>

If exemption or reduction of fee applies, please explain below:

- Tortoise Mitigation Fee Previously Paid: Permit No. _____ (Attach Documentation)
- Property Previously Developed, Fee Not Applicable. Explain: SEE ATTACHED
- Property Subject to Governmental Exemption _____ Explain Type of Project and Purpose: _____
- Other. Explain: _____

Received By: _____
Date: _____

CALCULATION OF ACRES DEVELOPED AND FEES PAID WILL BE AUDITED



DEPARTMENT OF DEVELOPMENT SERVICES

4701 West Russell Road - Las Vegas, NV 89118 * (702) 455-3000

INSPECTION RECORD COMMERCIAL BUILDING

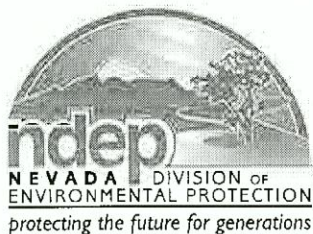
Site Address: 560 W LAKE MEAD PKWY Permit Nbr: 10-33981 GD6
 Owner Name: TRONOX L L C Owner Phn: 00
 Owner Address: P O BOX 268859, OKLAHOMA CITY OK 73126-8859, OKLAHOMA CITY OK 731268859
 Contractor: LAS VEGAS PAVING CORPORATION Ctr Phone: 251-5800
 Contr Addr: 4420 S DECATUR BLVD, LAS VEGAS NV 89103
 Subdivision: Unit#: Lot#: Block#:
 Parcel Nbr: 178-13-501-001 Nbr of Units: 0 Square Footage: 0
 Permit Type: GRADING PERMIT 100,001+ CY Construction Type: Occupancy:
 Appl Type: GRADING-COMMERCIAL Issue Date: 2/08/11
 Comments/Conditions: ENGINEER-OF-RECORD TO PROVIDE A LETTER
 Scope: GRADING ONLY//NO BUILDING//SOIL REMEDIATION ONLY, COMMERCIAL SHORT

Permits become null and void if construction is not commenced within 180 days from date of issuance or work is suspended or abandoned for a period of 180 days anytime after work is commenced.

CODE	REQUIRED INSPECTIONS	DATE-INSPECTOR	CODE	REQUIRED INSPECTIONS	DATE-INSPECTOR
2207	Pad Grading (Soil / Certification)		3111	Well, Electrical Underground, Partial	
2222	Foundation:Footings		3199	Well, Electrical Final, Partial	
3319	Ufer/Ground Electrode				
DO NOT POUR FOOTINGS UNTIL ABOVE ARE SIGNED					
3311	Underground Electrical		2233	Columns & Supports	
5511	Underground Mechanical		2228	Concrete Floor/Deck	
3321	Slab Electrical		2225	Concrete Wall	
4412	Underground Plumbing		2226	Masonry Pre Grout 'Lift	
2229	Concrete Slab On Grade			Masonry Pre Grout 'Lift	
DO NOT POUR CONCRETE SLAB UNTIL ABOVE ARE SIGNED					
				Masonry Pre Grout 'Lift	
2239	Shear Walls		2235	Subfloor Sheathing	
2236	Roof Sheathing		2284	Stucco Brown Coat	
			2273	Suspended Ceiling Frame	
3331	Rough Electrical				
4425	Water Piping		4469	Sump Pumps (Ejectors) Lifts	
4441	Rough Plumbing		4466	Sand/Oil Interceptor	
5551	Rough Mechanical		4479	Grease Interceptor	
			4489	Boilers	
4455	Sewer		4422	Gas Piping	
			4484	Gas Test And Tag	
2268	Roof Underlayment & Flashing		4485	Gas Tag	
2244	Framing				
2249	Exterior Lath/Siding		5535	Duct Detector Test	
2252	Insulation		5545	Damper (Smoke/Fire)	
2259	Interior Lath/Drywall		5546	Rough Grease Duct	
			5548	Grease Duct Enclosure	
3399	Final - Electrical		5575	Type I Hood	
4499	Final - Plumbing		5577	Type II Hood	
5599	Final - Mechanical			Hood Air Balance Report	
				Hood Extinguishing System (Fire Dept)	
	QAA Final Report		5584	Gas Test And Tag (Mechanical)	
			5585	Gas Tag (Mechanical)	
2299	Final - Building				
3395	Electrical Meter Tag		3381	Temporary Power	
2295	Electrical Meter Tag		3361	Generator Test	
			3931	Fire Alarms (Rough Electrical)	
			3991	Fire Alarms (Pre-Final)	
				Fire Alarms (Fire Dept. Testing)	
			3999	Fire Alarms (Final Electrical)	

10.33981

PERMIT SET



STATE OF NEVADA

Department of Conservation & Natural Resources

DIVISION OF ENVIRONMENTAL PROTECTION

Jim Gibbons, Governor

Allen Biaggi, Director

Leo M. Drozdoff, P.E., Administrator

Certified Mail 7005-0390-0002-0503-6549

December 14, 2009

Michael J. Foster
Tronox, LLC.
3301 N. W. 150th
Oklahoma City, Oklahoma 73134

COUNTY OF CLARK
ZONING DIVISION
APPROVED
BY _____ DATE _____

RE: Enforcement Action for Failure to Complete Approved Site Remediation Activities, and Show Cause Meeting, Tronox, LLC, (Tronox) Henderson, Nevada, NDEP Facility ID Number 8-000539

Dear Mr. Foster:

Enclosed please find a Finding of Alleged Violation, Order, and State Environmental Commission Form #3. This enforcement action is the result of the failure of Tronox, its predecessors in interest and affiliates to complete approved remediation activities for the known contamination in both soil and groundwater at the Tronox facility located within the Black Mountain Industrial ("BMI") Complex, 8000 West Lake Mead Parkway, Henderson, Nevada. Nevada Division of Environmental Protection (the "Division") facility ID Number H-000539. Among other things, the enforcement action seeks injunctive relief to ensure compliance with Tronox's remediation obligations going forward.

The enclosed Order requires a representative of Tronox to appear before the Division to show cause why the Division should not proceed with an action for injunctive or other relief in District Court. Any violation of the terms of this Order could subject you to an action for appropriate relief pursuant to NRS 445A.695, 445A.700, 445A.705, 459.580, or 459.585.

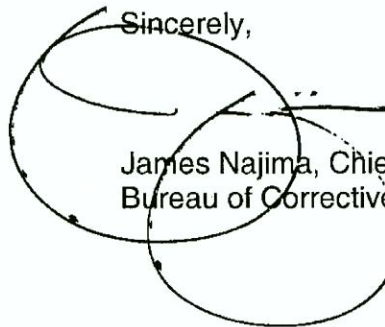
Pursuant to NRS 445A.690, this Order is final and not subject to review unless, within thirty (30) days after the date the Order is served, a request by written petition for a hearing is received by the State Environmental Commission, John Walker, Executive Secretary, via mail to 901 South Stewart Street, Suite 4001, Carson City, Nevada 89701, or via facsimile to (775) 687-5856. I have included the appropriate form for an appeal hearing (Form #3) for your convenience. Please provide me with a copy of any correspondence you have with the Commission.

PERMIT SET



IN THE MATTER OF)
TRONOX, INC.)
December 14, 2009)
Page 2 of 19)

If you have any questions regarding this matter, please call me at (775) 687-9484.

Sincerely,

James Najima, Chief
Bureau of Corrective Actions

JN/slg

Enclosures (3)

Finding of Alleged Violation
Order
SEC Form #3

cc: w/Enclosures

Bill Frey, Senior Deputy Attorney General, Attorney General's Office, Carson City
Carolyn Tanner, Deputy Attorney General, Attorney General's Office, Carson City
Leo Drozdoff, P.E., Nevada Department of Environmental Protection, Carson City
Tom Porta, NDEP, Carson City

John Walker, Nevada State Environmental Commission, Carson City

Brian Rakvica, P.E., NDEP, Las Vegas

Shannon Harbour, P.E., NDEP, Las Vegas

Mr. Ken Baker, Chartis, Pollution Cap Claims Department, 175 Water Street, 12th
Floor, New York, New York 10038

Mitch Kaplan, U.S. Environmental Protection Agency, Region 9, mail code:
WST-5, 75 Hawthorne Street, San Francisco, CA 94105-3901

Ebrahim Juma, Clark County DAQEM, 500 South Grand Central Parkway, PO
Box 555210, Las Vegas, NV, 89155-5210

Robert Williams, Clark County Fire Department, 575 East Flamingo Road, Las
Vegas, Nevada 89119

Ranjit Sahu, BRC, 311 North Story Place, Alhambra, CA 91801

Rick Kellogg, BRC, 875 West Warm Springs, Henderson, NV 89011

Mark Paris, BEC, 875 West Warm Springs, Henderson, NV 89011

Rex Heppe, 2925 East Patrick Lane, Suite M, Las Vegas, NV 89120-2457

David Sadoff, AIG Consultants, Inc., 121 Spear Street, 3rd Floor, San Francisco,
CA 94105

Leslie Hill, U.S. Department of Justice, PO Box 23896, Washington, DC
20026-3986

Craig Wilkinson, TIMET, PO Box 2128, Henderson, Nevada, 89009-7003

Kirk Stowers, Broadbent & Associates, 8 West Pacific Avenue, Henderson,
Nevada 89015

George Crouse, Syngenta Crop Protection, Inc., 410 Swing Road, Greensboro,
NC 27409

IN THE MATTER OF)
TRONOX, INC.)
December 14, 2009)
Page 3 of 19)

Nicholas Pogoncheff, PES Environmental, Inc., 1682 Novato Blvd., Suite 100,
Novato, CA 94947-7021
Susan Crowley, Crowley Environmental LLC, 366 Esquina Dr., Henderson,
NV 89014
Susan Crowley, Tronox LLC, PO Box 55, Henderson, Nevada 89009
Mike Skromyda, Tronox LLC, PO Box 55, Henderson, Nevada 89009
Keith Bailey, Environmental Answers, 3229 Persimmon Creek Dr, Edmond,
Oklahoma 73013
Lee Erickson, Stauffer Management Company, P.O. Box 18890, Golden,
CO 80402
Michael Bellotti, Olin Corporation, 3855 North Ocoee Street, Suite 200,
Cleveland, TN 37312
Curt Richards, Olin Corporation, 3855 North Ocoee Street, Suite 200, Cleveland,
TN 37312
Paul Sundberg, Montrose Chemical Corporation, 10733 Wave Crest Court
Stockton, CA 95209
Joe Kelly, Montrose Chemical Corporation of CA, 600 Ericksen Avenue NE,
Suite 380, Bainbridge Island, WA 98110
Deni Chambers, Northgate Environmental Management, Inc., 300 Frank H.
Ogawa Plaza, Suite 510, Oakland, CA 94612
Robert Infelise, Cox Castle Nicholson, 555 California Street, 10th Floor,
San Francisco, CA 94104-1513
Michael Ford, Bryan Cave, One Renaissance Square, Two North Central
Avenue, Suite 2200, Phoenix, AZ 85004
Jeff Gibson, AMPAC, 3883 Howard Hughes Pkwy, Ste 700, Las Vegas,
NV 89169

ORDER

This Order is issued under the authority vested in the Director of the Department of Conservation and Natural Resources ("Department") by Nevada Revised Statutes (NRS) 445A.445 (1), 445A.450 (8), and 459.470, delegated to the Division of Environmental Protection ("Division") pursuant to NRS 445A.450 (9) and 459.480, and in accordance with NRS 445A.675, 445A.690, 459.565 (1), and 459.570.

On the basis of the attached Finding of Alleged Violation ("FOAV"), which is a part of this Order, the Administrator of the Division, pursuant to authority delegated to him by the Director of the Department of Conservation and Natural Resources, has determined that Tronox, LLC ("Tronox") is in violation of Nevada Water Pollution Control Law, the Nevada Hazardous Waste Law, the Resource Conservation and Recovery Act, the Phase 2 Consent Order, the 1986 Consent Order, and the 2001 Consent Order as outlined in the Finding of Alleged Violation and that, among other remedies, injunction relief is required to ensure Tronox's compliance with its remediation obligations going forward.

IT IS HEREBY ORDERED:

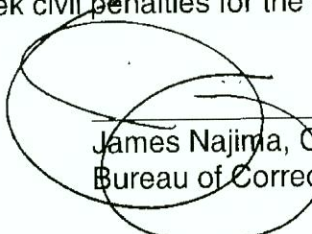
Tronox shall complete the following acts at/or with respect to the Tronox Facility located within the Black Mountain Industrial ("BMI") Complex, 8000 West Lake Mead Parkway in Henderson, Nevada (hereinafter "the Site") by the dates specified:

1. Immediately maintain the Site in compliance with all federal, state, and local environmental laws to protect human health and the environment.
2. Within ten (10) days of the date of this Order: Submit to the Division a written reply which states Tronox's intention to comply with the Order including its obligation to maintain the Site in compliance with all federal, state, and local environmental laws to protect human health and the environment.
3. Within sixty (60) days of the date of this Order: Submit to the Division a detailed plan, including a detailed schedule and timeline, that explains how Tronox will ensure that the existing groundwater treatment system ("GWTS") will remain fully operational, as defined herein, until the remedial actions are completed.
 - a. The term "fully operational" is defined as the pumping and treating of impacted groundwater in accordance with the Administrative Orders on Consent issued by the Division on the following dates: September 9, 1986; April 25, 1991; August 1, 1996; July 26, 1999; October 8, 2001; and April 12, 2005; the following NDEP Bureau of Water Pollution Control

permits: NV 0023060; NEV2001515; NEV2001516; UNEV94218; and any additional permits and requirements as provided by the Division to determine that adequate capture and treatment is occurring to protect human health and the environment.

4. Within sixty (60) days of the date of this Order: Submit to the Division a detailed plan, including a detailed schedule and time line which explains how Tronox will complete the Remedial Alternative Studies ("RAS") required under the August 1, 1996 Consent Agreement ("the Phase 2 Consent Order"). The RAS documents shall address the issue of source control and reduction, and optimization of groundwater treatment.
5. Within sixty (60) days of the date of this Order: Tronox must provide documentation of financial assurance evidencing the existence of the funds necessary to conduct the required corrective actions at the Site.
6. Within thirty (30) days of the date of this Order: Tronox must present a plan for providing an emergency generator system for the GWTS or an alternate plan that is acceptable to the Division, to ensure continuous operation of the GWTS system.
7. Within thirty (30) days of the date of this Order: Tronox must provide a schedule for the complete removal of contaminated soils from the Site by December 31, 2010.
8. By December 31, 2010: Tronox must complete source control of contaminated soils at the Site.
9. Within ten (10) days of the date of this Order: Submit to the Division a copy of all insurance policies that are currently being used to fund the environmental activities at the Site, together with documentation evidencing (a) claims and payouts made pursuant to such policies, (b) any expenses incurred as part of any self-insured retention pursuant to such policies, (c) the term of such policy, and (d) and any other information related to coverage concerning the Site.
10. Within ten (10) days of the date of this Order: Contact Jim Najima, Chief of the Bureau of Corrective Actions of the Division to arrange a meeting at the Division's Carson City office to show cause why the Division should not seek civil penalties for the violations cited in the FOAV.

Dec 14, 2009
Date


James Najima, Chief
Bureau of Corrective Actions

FINDING OF ALLEGED VIOLATION

I. This Finding of Alleged Violation is based upon the following:

A. RELEVANT STATUTORY AND REGULATORY AUTHORITY UNDER THE NEVADA WATER POLLUTION CONTROL LAW:

1. It is the policy of the State of Nevada and the purpose of the Nevada Water Pollution Control Law, codified at Nevada Revised Statutes (NRS) 445A.300 to 445A.730 inclusive (the "NWPCL"), "(a) to maintain the quality of the waters of the State consistent with the public health and enjoyment, the propagation and protection of terrestrial and aquatic life, the operation of existing industries, the pursuit of agriculture, and the economic development of the State, and (b) to encourage and promote the use of methods of waste collection and pollution control for all significant sources of water pollution (including point and diffuse sources)."
2. The State of Nevada, Department of Conservation and Natural Resources, Division of Environmental Protection (the "Division"), under the authority of NRS 445A.445 (1) and 459.475, has the power and the duty to administer and enforce the provisions of the NWPCL.
3. The Division is authorized by NRS 445A.675 and 445A.690 to make findings and issue orders to address violations of the NWPCL.
4. NRS 445A.465 states:

Injection of fluids through a well or discharge of pollutant without a permit prohibited; regulations:

1. Except as authorized by a permit issued by the department pursuant to the provisions of NRS 445A.300 to 445A.730, inclusive, and regulations adopted by the commission, it is unlawful for any person to:

- (a) Discharge from any point source any pollutant into any waters of the state or any treatment works.
- (c) Discharge from a point source a pollutant or inject fluids through a well that could be carried into the waters of the state by any means.
- (d) Allow a pollutant discharged from a point source or fluids injected through a well to remain in place where the pollutant or fluids could be carried into waters of the state by any means.

5. The Division may issue an Order requiring the owner or operator of a property whereon hazardous waste, hazardous substances and/or regulated substances are released to take corrective action to address soil contamination pursuant NAC 445A.227, and to provide a plan and schedule for completing corrective action pursuant to NAC 445A.2271.
6. The Division may issue an Order requiring the owner or operator of a property whereon hazardous waste, hazardous substances and/or regulated substances are released to take corrective action to address groundwater contamination pursuant NAC 445A.22725, and to provide a plan and schedule for completing corrective action pursuant to NAC 445A.2273.

B. RELEVANT STATUTORY AND REGULATORY AUTHORITY UNDER THE NEVADA HAZARDOUS WASTE LAW:

1. It is the purpose of the Nevada Hazardous Waste Law codified at NRS 459.400 to 459.600 inclusive (the "NHWL"), to "(1) Protect human health, public safety and the environment from the effects of improper, inadequate or unsound management of hazardous waste; (2) Establish a program for regulation of the storage, generation, transportation, treatment and disposal of hazardous waste; and (3) Ensure safe and adequate management of hazardous waste."
2. The Division has the power to enforce all rules, regulations and standards promulgated by the Nevada State Environmental Commission (the "SEC") under the NHWL pursuant to NRS 459.475 (1), to act as the state agency for the purposes of federal laws and regulations on hazardous waste pursuant to NRS 459.470, as delegated pursuant to NRS 459.480.
3. Pursuant to NRS 459.565, if the Division receives information that the handling, storage, transportation, treatment or disposal of any waste or hazardous substance at a facility may present an *"imminent and substantial hazard to human health, public safety or the environment,"* it may issue an order to the owner or operator of the facility or the custodian of the hazardous waste to take all necessary steps to prevent the act or eliminate the practice which constitutes the hazard. The Division may also order a site assessment to be conducted and a remediation plan to be developed, assess costs and expenses incurred by the Division in removing, correcting or terminating any hazard to human health, public safety or the environment, seek injunctive relief; and take any other action designed to reduce or eliminate the hazard.

4. NAC 459.9533 defines "Ammonium Perchlorate" as a highly hazardous substance, per all applicable thresholds.
5. Per the United States Environmental Protection Agency, National Center for Environmental Assessment, "Hexavalent Chromium" is classified as a human carcinogen. See <http://www.epa.gov/ncea/iris/toxreviews/0144-tr.pdf> chromium.
6. Pursuant to NRS 459.570, the Division has the power to issue orders to address violations of the NHWL, including any regulation, or term or condition of a permit issued by the Division.
7. Nevada adopts and enforces the regulations applicable to the Resource Conservation and Recovery Act ("RCRA"). NAC 444.8632 states in part: Compliance with federal regulations adopted by reference. In addition to the requirements of NAC 444.850 to 444.876, inclusive, a person who generates, transports, treats, stores, disposes or otherwise manages hazardous waste or used oil shall comply with all applicable requirements of, and may rely upon applicable exclusions or exemptions under, 40 C.F.R. Part 2, Subpart A, Part 124, Subparts A and B, Parts 260 to 270, inclusive, Part 273 and Part 279, as those provisions existed on July 1, 2007, which, except as otherwise modified by NAC 444.86325, 444.8633 and 444.8634, are hereby adopted by reference. The Commission may use federal statutes and regulations that are cited in 40 C.F.R. Part 2, Subpart A, Part 124, Subparts A and B, Parts 260 to 270, inclusive, Part 273 and Part 279 to interpret these sections and parts.
8. RCRA defines a "solid waste management unit" as "any discernable unit at which solid wastes have been placed at any time, irrespective of whether the unit was intended for the management of solid or hazardous waste. Such units include any area at a facility at which solid wastes have been routinely and systematically released." 55 Fed. Reg. 30808 (1990).
9. In relevant part, RCRA 3004 addresses solid waste management units as follows:

(u) Continuing releases at permitted facilities

Standards promulgated under this section shall require, and a permit issued after November 8, 1984, by the Administrator or a State shall require, corrective action for all releases of hazardous waste or constituents from any solid waste management unit at a treatment, storage, or disposal facility seeking a permit under this subchapter, regardless of the time at which waste was placed in such unit. Permits issued under section 6925 of this title shall contain schedules of compliance for such corrective action (where such corrective action

cannot be completed prior to issuance of the permit) and assurances of financial responsibility for completing such corrective action.

(v) Corrective action beyond facility boundary

As promptly as practicable after November 8, 1984, the Administrator shall amend the standards under this section regarding corrective action required at facilities for the treatment, storage, or disposal, of hazardous waste listed or identified under section 6921 of this title to require that corrective action be taken beyond the facility boundary where necessary to protect human health and the environment unless the owner or operator of the facility concerned demonstrates to the satisfaction of the Administrator that, despite the owner or operator's best efforts, the owner or operator was unable to obtain the necessary permission to undertake such action. Such regulations shall take effect immediately upon promulgation, notwithstanding section 6930(b) of this title, and shall apply to--

(1) all facilities operating under permits issued under subsection (c) of this section, and

(2) all landfills, surface impoundments, and waste pile units (including any new units, replacements of existing units, or lateral expansions of existing units) which receive hazardous waste after July 26, 1982.

Pending promulgation of such regulations, the Administrator shall issue corrective action orders for facilities referred to in paragraphs (1) and (2), on a case-by-case basis, consistent with the purposes of this subsection.

10. 40 C.F.R. 260.10 defines a "Facility" subject to RCRA regulation as:

(1) All contiguous land, and structures, other appurtenances, and improvements on the land, used for treating, storing, or disposing of hazardous waste, or for managing hazardous secondary materials prior to reclamation. A facility may consist of several treatment, storage, or disposal operational units (e.g., one or more landfills, surface impoundments, or combinations of them).

(2) *For the purpose of implementing corrective action under 40 CFR 264.101 or 267.101, all contiguous property under the control of the owner or operator seeking a permit under Subtitle C of RCRA. This definition also applies to facilities implementing corrective action under RCRA Section 3008(h).*

(3) Notwithstanding paragraph (2) of this definition, a remediation waste management site is not a facility that is subject to 40 CFR 264.101, but is subject to corrective action requirements if the site is located within such a facility.

[Emphasis added.]

11. RCRA 3005(e) defines a facility subject to interim status as:

(1) Any person who--

(A) owns or operates a facility required to have a permit under this section which facility--

(i) was in existence on November 19, 1980, or

(ii) is in existence on the effective date of statutory or regulatory changes under this chapter that render the facility subject to the requirement to have a permit under this section,

(B) has complied with the requirements of section 6930(a) of this title, and

(C) *has made an application for a permit under this section,*

shall be treated as having been issued such permit until such time as final administrative disposition of such application is made, unless the Administrator or other plaintiff proves that final administrative disposition of such application has not been made because of the failure of the applicant to furnish information reasonably required or requested in order to process the application. This paragraph shall not apply to any facility which has been previously denied a permit under this section or if authority to operate the facility under this section has been previously terminated.

[Emphasis added.]

12. Pursuant to RCRA 3008(h), facilities with interim status are subject to corrective action orders. Specifically, RCRA 3008(h) states in part:

(1) Whenever on the basis of any information the Administrator determines that there is or has been a release of hazardous waste into the environment from a facility authorized to operate under section 6925(e) of this title, *the Administrator may issue an order requiring corrective action or such other response measure as he deems necessary to protect human health or the environment* or the Administrator may commence a civil action in the United States district court in the district in which the

facility is located for appropriate relief, including a temporary or permanent injunction.

[Emphasis added].

13. Pursuant to 40 C.F.R. Part 265, Subpart H, the Division may require financial assurance from interim status facilities to ensure the funding of the costs of remediation, including adjustments for current cost estimates of clean-up, inflation, and insufficiency of posted financial assurance .

C. RELEVANT BACKGROUND

1. Kerr-McGee Corporation, Kerr-McGee Chemical, LLC, its affiliates, and successors-in-interest have owned and operated an industrial facility at the BMI Complex in Henderson, Nevada (the "Site") for approximately fifty years. Tronox, LLC took ownership of the Site in or about 2005. These entities are collectively referred to herein as the "Parties."
2. Ending in approximately 1998, the Parties produced ammonium perchlorate, magnesium perchlorate, potassium perchlorate, and sodium perchlorate (collectively, "perchlorate") at the Site. As a result of manufacturing operations at the Site, additional contaminants are found in the groundwater at or near the Site in concentrations above the limits set by the NHL. These contaminants include: hexavalent chromium, perchlorate, asbestos, dioxins, total petroleum hydrocarbons, organochlorine pesticides, aluminum, antimony, arsenic, lead, mercury, radium, thorium, uranium, various semi-volatile and volatile organic compounds. The contaminated groundwater flows into the Las Vegas Wash, into Lake Mead and on to the Colorado River.
3. Pursuant to its authority under the NWPCCL, and the NHL, the Division issued an Administrative Order on Consent on September 9, 1986 to Kerr McGee Chemical Corporation (the "1986 Consent Order") requiring the remediation of the hexavalent chromium contamination in groundwater. Pursuant to the 1986 Consent Order, the Parties installed a system of monitoring and interceptor wells and groundwater treatment systems at and around the Site and the larger BMI Complex to slow the migration of impacted groundwater.
4. On April 25, 1991, the Division entered an Administrative Order on Consent (the "Phase 1 Consent Order") with land and facility owners within the BMI Complex which set the first phase of a three phase process to investigate, characterize, and if necessary, remediate the hazardous waste releases in the common areas, as well as individually owned sites, within the BMI Complex and surrounding lands and waters.

5. Based upon the reports received pursuant to the Phase 1 Consent Order, the Division issued an Administrative Order on Consent on August 1, 1996 to Kerr-McGee Chemical Corporation (the "Phase 2 Order") to require additional investigation, characterization, and if necessary, remediation of waste releases at or associated with the Site which may pose a threat to human health, welfare, or the environment.
6. In 1997, perchlorate was detected in the Colorado River. The source of this contamination was subsequently traced to the groundwater beneath the Site. On July 26 1999, the Division issued an Administrative Order on Consent to Kerr McGee Chemical, LLC (the "1999 Consent Order"), requiring the establishment of groundwater collection and treatment facilities to remediate this perchlorate contamination.
7. Following the installation of such remedial systems, the Division issued an Administrative Order on Consent to Kerr-McGee Chemical, LLC on October 8, 2001 (the "2001 Consent Order"), and again on April 12, 2005 (the "2005 Consent Order"), modifying and refining the remedial technologies and systems employed at the Site.
8. Since 2007, Basic Remediation Company ("BRC") has managed a Corrective Action Management Unit ("CAMU") pursuant to a RCRA permit to address source contaminants within the BMI Complex. The CAMU has been permitted to accept contaminated soils from individual corporate landowners within the BMI Complex, at significant cost savings due to its proximate location. Upon information and belief, BRC intends to cap off the CAMU in late 2010, thereby precluding any further deposits of contaminated soils.
9. Upon information and belief, Tronox is the beneficiary of an insurance policy with Chartis to address remediation at and around the Site, including the removal of contaminated soils to a CAMU. Upon information and belief, the Chartis insurance policy expires on December 31, 2010.

II. FINDINGS OF ALLEGED VIOLATIONS: The Division finds and alleges as follows:

- A. **FINDING:** Without waiving any claim against Kerr-McGee Chemical Corporation, Kerr-McGee Chemical, LLC, Anadarko Petroleum Corporation, its affiliates, predecessors-in-interest, and successors-in-interest or any other party, the Division finds that Tronox is a successor-in-interest, and an owner and operator of the Site subject to all laws, rules, regulations and standards promulgated by the State Environmental

Commission ("SEC"), and all orders and permits promulgated by the Department, as delegated to the Division.

B. **FINDING:** The Parties are in violation of NAC 445A.227, 445A.2271, 445A.22725, and 445A.2273 of the NWPCL, and NRS 459.565 of the NHWL for failing to complete required assessments and reports of the effectiveness of the pump and treat groundwater system ("the GWTS"). These actions also give rise to the violation of the 1986 Consent Order, the Phase 2 Consent Order and the 2001 Consent Order which were executed in accordance with this authority.

1. Pursuant to its authority under NRS 445A.445 (1), NAC 445A.227, 445A.2271, 445A.22725, and 445A.2273 of the NWPCL, and NRS 459.475(1) and 459.565 of the NHWL, the Division issued multiple administrative orders on consent to the Parties requiring the investigation, characterization, and remediation of releases at or associated with the Site which may pose a threat to human health, welfare, or the environment.
2. Pursuant to the 1986 Consent Order, paragraph 6, the Parties are required to demonstrate on a monthly basis that overlapping cones of depression are achieved. This has not been done, nor has any acceptable alternative been performed or proposed.
3. Pursuant to the 1986 Consent Order, paragraph 7, "If the monitoring results required in Paragraph 6, occurring six (6) months after initial operation of the intercept system, demonstrate that the system is not effectively collecting the intended groundwater plume, the Department may require KMCC to implement the Contingency Plan set forth in Paragraph 8." Paragraph 8 states "KMCC shall prepare and submit to the Department for review and approval an Intercept System Contingency Plan, pursuant to the schedule set forth in Appendix B. This Plan will set forth additional measures to be implemented to improve and update the installed Intercept System to correct, to the extent possible, the deficiencies identified."

According to Appendix B of the 1986 Consent Order "the schedule of implementation for the proposed groundwater mitigation program at the Henderson Facility with time for completion after approval by the Nevada DEP" for the Intercept System Contingency Plan was 7 months. On December 18, 1986, the Division approved the "electrochemical reduction process for chromium-removal". Upon information and belief, this is the approval date referenced in Appendix B, and thus the Intercept System Contingency Plan

should have been submitted in July 1987. Upon information and belief, the Parties failed to submit a contingency plan.

4. Pursuant to the 2001 Consent Order, Section II.B., the Parties are required to install an extraction well system at the Athens Road area of the Site (as further described by the 2001 Consent Order), designed to remove up to 400 gallons per minute of groundwater with the objective of capturing perchlorate flux at this location. As noted herein, the Parties have failed to demonstrate this capture.
5. The Division advised Tronox that the GWTS does not appear to be providing adequate capture at either the Plant Site well field or at the Athens Road well field (each as further described in the Orders).
6. The Division has advised Tronox that the Seep Area well field (as described in the Orders) fails to provide capture of contaminants, and Tronox is currently flow-rate limited to address the Seep Area. The Parties have failed to provide an assessment and report indicating that additional capture is unnecessary in this area, nor have they attempted to capture additional contaminants.
7. The Division advised Tronox to install additional wells and to explore alternate treatment processes such as in-situ bioremediation in the Seep Area.
8. On March 28, 2007, the Division notified Tronox that it must evaluate and report on the effectiveness the GWTS. The Division requires this information so that it may accurately determine the necessity of further corrective action.
9. The Division has attempted to obtain this required information from Tronox informally without success. Between August 29, 2006 and August 28, 2007, the Division reiterated this requirement to Tronox on at least four occasions.
10. Tronox refuses to comply with these directives. Tronox contends that its existing insurance policy under Chartis will not cover multiple treatment systems such as an in-situ bioremediation. And to date, Tronox has refused to install additional wells.
11. Tronox submitted a work plan to evaluate the effectiveness of the GWTS (also known as the Capture Zone Analysis) on May 30, 2007, a revised work plan on August 30, 2007, and a second revised work plan on November 29, 2007.

12. On December 11, 2007, the Division approved the revised work plan dated November 29, 2007.
 13. Tronox has failed to fully implement the approved work plan. Specifically, Tronox has failed to install the required wells in the Seep Area. Without the installation of these wells, any evaluation of the GWTS will be incomplete.
 14. As of the date of this FOAV, Tronox has failed to provide to the Division a complete evaluation of the effectiveness of the GWTS.
- C. **FINDING:** The Parties are in violation of the Phase 2 Consent Order, Section III. Parties Bound. The Phase 2 Consent Order was executed by Kerr-McGee Chemical Corporation. The notification requirements of Section III. regarding change of corporate status have not been complied with.
- D. **FINDING:** The Parties are in violation of the Phase 2 Consent Order, Section IV. Work To Be Performed.
1. On October 3, 2005, the Division agreed to allow Tronox to complete a phased approach to the investigation of the sources of contamination at the Site. The data obtained from the required investigation is to be used to generate a Remedial Alternative Study ("RAS") to fulfill the Parties' obligations under the Phase 2 Consent Order.
 2. Tronox has shown a history of inappropriate delay in the completion of this investigation. Between October 3, 2005 and November 2, 2007, the Division met with Tronox sixteen times to discuss the first phase of this investigation ("Phase A").
 3. After approximately six months of delays and discussions, Tronox implemented and reported to the Division on November 2, 2007.
 4. Between April 5, 2007 and December 4, 2008, the Division met with Tronox twenty-four times to discuss the second phase of this investigation ("Phase B"). The Phase B work plan was broken into six segments - Areas I through IV for soils, one segment for soil gas, and one for site-wide groundwater. Each of these segments required numerous revisions, delays, and Division mark-ups before they were acceptable and approved.
 5. The Phase B Work plan has only recently been completed on November 12, 2009.

6. On October 7, 2009, Tronox discussed the draft results of the Area I Phase B investigation with the Division. To date, Tronox has failed to submit either draft or final results to the Division.
 7. Tronox advised the Division that it will further investigate Area I based upon their initial, and to date undisclosed, results. Additional sampling was proposed on November 19, 2009. Tronox's sampling proposal was wholly deficient, and the Division requested the submission of additional information to complete the sampling proposal.
 8. The Division has repeatedly expressed concern to Tronox and Chartis that remediation appears necessary, and that Tronox and Chartis have failed to provide an appropriate schedule to ensure that this work is completed in a timely fashion.
 9. Tronox's responses to the Division's requests are unacceptable and in bad faith. The Phase 2 Consent Order has been in place for over thirteen years, and Tronox has not produced a RAS for any media (soil, groundwater, etc.) or for any area of the Site, as required by the Phase 2 Consent Order.
 10. Without completion of the Deliverables required by the Phase 2 Consent Order, remediation contemplated by a Phase 3 Consent Order is stalled.
- E. FINDING:** The Parties are in violation of the Phase 2 Consent Order, Section XVII. Reimbursement of Division Oversight Costs. Tronox has failed to reimburse the Division for \$37,024.52 as invoiced on April 6, 2009.
- F. FINDING:** The Parties are in violation of RCRA §§ 3004(u) and 3008(h) and 40 C.F.R. Part 265, Subpart H, and the 1986 Consent Order, paragraph 28. The Parties have failed to provide adequate financial assurance to address the unacceptable risks to human health and the environment posed by the contaminants at the Site.
1. The Site is subject to corrective action under RCRA 3004(u) and 3008(h).
 2. The financial assurance provided by Kerr-McGee Chemical Corporation in the Post Closure Permit Application dated July 24, 1987 is no longer viable as Kerr McGee Chemical Corporation is in default of its financial assurance obligations.

3. Pursuant to the 1986 Consent Order, Paragraph 28, the Parties agreed to unconditionally guarantee performance of its obligations thereunder, and to affirm their financial capability on an annual basis, upon request by the Division.
4. The Division finds that financial assurance provided by Tronox through the Chartis insurance policy is now insufficient.
 - i. Upon information and belief, the Chartis Policy is due to expire on December 31, 2010.
 - ii. Remediation at the Henderson Facility is estimated to take more than ten years, well in excess of the twelve months of coverage remaining under the Chartis Policy.
 - iii. Upon information and belief, the Chartis Policy disallows coverage of in-situ bioremediation in the Seep Area, contrary to the directive of the Division.

G. FINDING: The Parties are in violation of NRS 445A.465 for allowing pollutants discharged from a point source or fluids injected through a well to remain in place where the pollutants or fluids could be carried into the waters of the State by any means.

1. The delays caused by the Parties in violation of the Administrative Orders on Consent as outlined herein have caused undue delay of source control at or around the Site.
2. Over 800,000 cubic yards of contaminated soil are believed to remain on Site, resulting in exponentially higher costs of maintaining the GWTS, and frustrating the process of remediation.
3. The Parties currently have the ability to access the CAMU within the BMI Complex with capacity to hold the contaminated soils from the Site.
4. Immediate source control will significantly reduce the overall costs of the GWTS and remediation.

H. FINDING: The Parties' failure to operate the GWTS will result in imminent degradation of the Las Vegas Wash, Lake Mead and the Colorado River, and an imminent and substantial threat to human health, in violation of NRS 445A.305, NRS 459.400, NAC 445A.144.

1. Based upon the modeling conducted by the Division, with the assumption of a Las Vegas Wash base load of sixty pounds per day of perchlorate, the following is estimated:

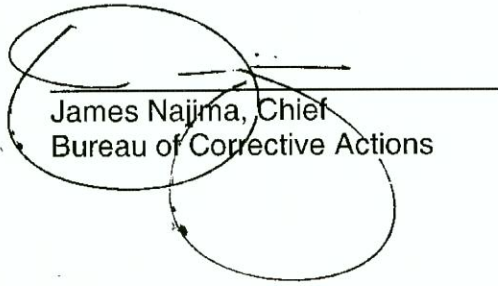
- a. The loading of perchlorate will increase by 23% immediately upon the GWTS being shut down.
 - b. The loading of perchlorate will increase by over 100% within 18 months of the GWTS being shut down.
 - c. The loading of perchlorate will increase by over 860% within 24 months of the GWTS being shut down.
2. Based upon information provided by Veolia Water North America, the operator of the GWTS, the following is estimated:
 - a. The microbial culture used in the GWTS will die within two to three days of the GWTS being shutdown.
 - b. It may take between six and twelve months to reestablish the microbial culture within the GWTS, should it die.
3. Based upon information provided by the Southern Nevada Water Authority (SNWA) and modeling conducted by their environmental contractor Flowscience, the following is estimated:
 - a. Concentrations of perchlorate in Lake Mead are expected to increase by 1200% within 24 months in the event that the GWTS is shut off.
 - b. Concentrations of perchlorate in the Colorado River system and the Metropolitan Water District intake pipeline are expected to increase by 300% within 24 months in the event that the GWTS is shut off.
4. Upon information and belief, over 25 million people rely upon these water bodies as a source of drinking water.
5. The Division finds the degradation of these water bodies is an unacceptable and imminent threat to human health under NRS 445A.305, NRS 459.400, NAC 445A.144.
6. Upon information and belief, Tronox may seek to abandon the Henderson Site after a sale of its assets in bankruptcy. The abandonment of the Site, and/or any loss of power or disabling of the GWTS will cause an imminent and substantial threat to human health. Tronox must present a plan to the Division demonstrating the continuation of the GWTS system, including an emergency

generator back-up system for the GWTS, or an alternate plan that is acceptable to the Division.

III. CONCLUSION: Based upon the information set forth herein, the Nevada Division of Environmental Protection has determined that Tronox, LLC is in violation of the following provisions of the Nevada Administrative Code (NAC), the Nevada Revised Statutes (NRS), the Resource Conservation and Recovery Act (RCRA), and Division Administrative Orders on Consent.

1. NAC 445A.227, 445A.2271, 445A.22725, 445A.2273, and NRS 459.565. Failure to complete required assessments and reports of the effectiveness of the pump and treat groundwater system ("the GWTS").
2. Phase 2 Consent Order, Section III. Parties Bound.
3. Phase 2 Consent Order, Section IV. Work To Be Performed.
4. Phase 2 Consent Order, Section XVII. Reimbursement of Division Oversight Costs.
5. RCRA §§ 3004(u) and 3008(h) and 40 C.F.R. Part 265, Subpart H. Financial Assurance.
6. 1986 Consent Order, paragraph 28. Financial Assurance.
7. NRS 445A.465. Allowing pollutants discharged from a point source or fluids injected through a well to remain in place where the pollutants or fluids could be carried into the waters of the State by any means.
8. NRS 445A.305, NRS 459.400, NAC 445A.144. The Division has a duty to address the imminent and substantial threat to human health and the environment caused by the Site.

Dec 14, 2009
Date


James Najima, Chief
Bureau of Corrective Actions

General Engineering
Contractors
Since 1958



4420 South Decatur Blvd.
Las Vegas, NV 89103-5803
(702)251-5800
(702)251-1968 Fax
www.LasVegasPaving.com

February 7, 2011

Clark County Development Services
4701 W. Russell Road
Las Vegas, Nv 89118

Attn: "Permit Issue"
Application # 10-33981
Project Address: 560 W. Lake Mead Pkwy.

Danny Fitzgerald (Construction Manager) is an authorized employee of Las Vegas Paving for the TRONOX Soil Remediation project and has permission to use check number **10-33981** from "**Las Vegas Paving Corp**" to pick up permit number stated above using our state contractor's license number **#5507** Class AB...

Thank you,

A handwritten signature in blue ink, appearing to read "Jay Smith", is positioned above the printed name and title.

Jay Smith
President
Las Vegas Paving Corp.



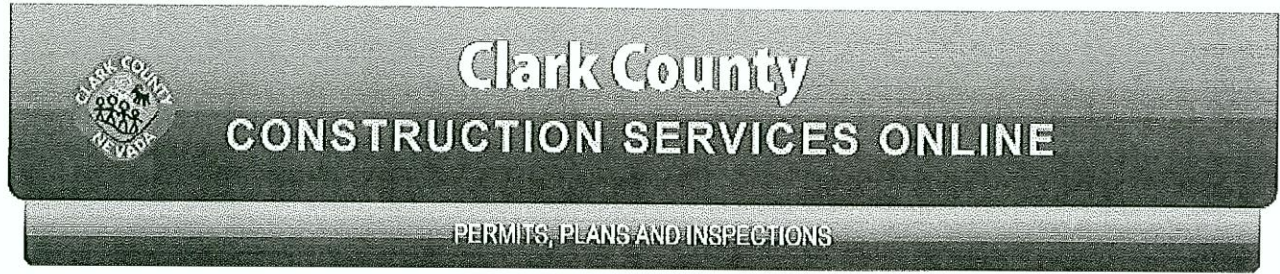
- HOME
- SELECT PERMIT
- STATUS DETAIL
- VIEW APPLICATION FEES
- PERMIT STATUS
- INSPECTION STATUS
- PLAN TRACKING STATUS ▶
- SCHEDULE/CANCEL INSPECTIONS
- SUBMIT APPLICATION
- CONTACT US
- CORRECTION LETTERS
- LOGOFF

Plan Tracking Status

Parcel ID: 178-13-501-001 Address: 560 W LAKE MEAD PKWY
Application Date: 12/06/10 Owner: TRONOX L L C
Application #: 10 - 33981 Application Type: GRADING-COMMERCIAL

Agency Description: PLAN TRACKING
Action Description: FEE WORK-UP COMPLETED

Comment
ready to issue/1465.99 due/need dust permit/thn



- HOME
- SELECT PERMIT
- STATUS DETAIL
- VIEW APPLICATION FEES ▶
- PERMIT STATUS
- INSPECTION STATUS
- PLAN TRACKING STATUS
- SCHEDULE/CANCEL INSPECTIONS
- SUBMIT APPLICATION
- CONTACT US
- CORRECTION LETTERS
- LOGOFF

Application Fees

Parcel ID: 178-13-501-001 Address: 560 W LAKE MEAD PKWY
 Application Date: 12/06/10 Owner: TRONOX L L C
 Application #: 10 - 33981 Application Type: GRADING-COMMERCIAL

Fee Description	Amt Charged	Amt Due
ZONING PC FEE	\$133.27	\$133.27
GRADING PLAN REVIEW-BLD	\$413.40	\$0.00
GRADING 100,001-OR MORE CY (000-000/GD6-00)	\$1,332.72	\$1,332.72
TOTAL	\$1,879.39	\$1,465.99



Air Quality & Environmental Management

500 S. Grand Central Parkway, 1st floor
Las Vegas NV · 89155-1776
(702) 455-5942 · Fax (702) 383-9994



CLARK COUNTY · LAS VEGAS · NORTH LAS VEGAS · BOULDER CITY · HENDERSON · MESQUITE

DUST CONTROL PERMIT FOR CONSTRUCTION ACTIVITIES INCLUDING SURFACE GRADING AND TRENCHING

THIS PERMIT DOES NOT EXEMPT THE PERMITTEE FROM COMPLIANCE WITH THE ENDANGERED SPECIES ACT

Permit Number:

PAYMENT INFORMATION:

20102623

38851

Mod: 1

Fee: \$4,999.20

Permittee and Project Information

Balance Due: \$

0

Permittee: Las Vegas Paving Corporation

Permittee Address: 4420 South Decatur Blvd

City, State, Zip: Las Vegas NV 89103

Fax No.: 7022579436

Project Name: Asbestos Abatement

Project Address: 560 West Lake Mead Pkwy

Located In: Township: 22 Range: 62 Section: 13 EO Area: SE

Acreage This Mod: 35.6 Total Acreage: 42.2

Cross Streets: E of US-95

Project Contact(s)

Normal Hours: Troy Hildreth
Company: Las Vegas Paving Corporation
Phone: (702)510-1278

After Hours: Troy Hildreth
Company: Las Vegas Paving Corp
Phone: (702)510-1278

Issue Date: 24-Aug-2010

Expiration Date:

09-Aug-2011

Effective Date: 8/24/10 *DW*

Notes

Additional areas with the same property owner

- Request Of Sign Waiver
- Public Works Agreement
- Closure Plan
- Conditional Renewal

DUST CONTROL MEASURES MUST OCCUR 24 HOURS A DAY, 7 DAYS A WEEK

THIS PERMIT IS NOT VALID UNTIL ALL FEES ARE PAID IN FULL AND A COMPLETE COPY IS ON THE PROJECT SITE, INCLUDING CONDITIONS OF PERMIT AND DUST MITIGATION PLAN

It is a condition of the issuance of any operating permit required by the commission or pursuant to any local ordinance for the control of air pollution that the holder of the operating permit agrees to permit inspection of the premises to which the permit relates by any authorized officer of the department at any time during the holder's hours of operation without prior notice. This condition must be stated on each application form and operating permit. NRS 445B.580.

The issuance of this PERMIT does not relieve the PERMITTEE from compliance with all other applicable federal, state, county and local ordinances and regulations. Issuance of this PERMIT shall not be a defense to violations of any applicable ordinances or regulations.

AUG 18 2010



DAQEM Use Only

RECEIVED
CC-DAQM

2010 AUG 19 P 2:30

APPLICATION FOR DUST CONTROL PERMIT MODIFICATION
Submit applicable fee per Section 18 of the Air Quality Regulations

1. **PERMIT INFORMATION:** Permit Number: 38851
Applicant/Permittee: Las Vegas Paving Corp.
Project Name: Asbestos abatement

2. **IS MODIFICATION REQUESTED AS A RESULT OF A CAO?** Yes No

3. **INFORMATION TO BE MODIFIED:**

Control Measures:

Attach Control Measure Selection Pages (DCP03) for all modifications.

Project Acreage:

Acreage to be added: 35.6 Acreage to be removed: _____
Attach a revised Assessor's Parcel Map showing the originally permitted area and the area to be added/removed. Include Owner's Designee form (DCP 05) if applicable.

Supplemental Forms:

Blasting Demolition VLP / HPVLP: List permit number and/or company name.
Attach Supplemental forms and Control Measure Selection Pages.

Other:

additional areas with the same property owner

Attach modifications and/or current information.

4. **SUBMITTED BY:**

[Signature] Troy Hildreth
Signature Print Name
Las Vegas Paving Corp.
Company Name/Title
251-5800 08-17-2010
Phone Number Date

5. **APPROVED BY:**

[Signature] 8-23-10
DAQEM Permitting Approval Date
N/A
DAQEM Asbestos/Removal Approval Date

MODIFICATIONS SUBMITTED ON THIS FORM DO NOT CHANGE THE EXPIRATION DATE OF THE PERMIT.

ACREAGE ADDED WILL EXPIRE ON THE SAME DATE AS THE CURRENT PERMIT EXPIRATION.

DUST MITIGATION PLAN FOR Asbestos Abatement

Prepared for:

Clark County Department
Of Air Quality & Environmental Management
500 South Grand Central Parkway
1st Floor
Las Vegas, Nevada 89155

Prepared By:

Las Vegas Paving Corp.
4420 S. Decatur Boulevard
Las Vegas, Nevada 89103

August 17, 2010

A. Project Description

1. This project consists of the removal and disposal of contaminated soils. The soil type that will be encountered during this project is listed as Moderate high. This designation was determined from figures 3 and 4 'Valley Soil Types Map' located in the Construction Activities Notebook.
2. A map for the project is included within this application.

B. Development Plan

1. Las Vegas Paving anticipates this project to continue for 10 months.

C. Estimated Proposed Expenditure

1. The costs for the miscellaneous products anticipated to be used on this project are as follows:

Water Truck with Driver	\$92.00 per Hour
Water	\$3.00 per 1,000 gallons
Surfactant	\$3.50 per 1,000 gallons of water

For this project, Las Vegas Paving anticipates that the water truck, operator, and water consumption will cost approximately \$124,983.00

D. Control Measures

All control measures are listed in the previous section.

E. Water Source Identification

Hydrants will be used to fill water trucks.

F. Soil Stabilization Measures

Las Vegas Paving plans on using water as our primary source of Dust Control. If water is not effective alone, then a surfactant will be added to the water at a rate of no less than 2 gallon per 4,000 gallons of water. Las Vegas Paving will keep records of any surfactant used for this project.

G. Employee Dust Control Training and Compliance

Mr. Tony Hainey the Project Superintendent will supervise the activities for this project. Mr. Hainey will work closely with Mr. Troy Hildreth, Las Vegas Paving's Environmental Department, if situations occur that conflicts with this mitigation plan.

CONTROL MEASURES SELECTION PAGES

DISTURBED LAND – Long-Term Stabilization

BMP 11

**YOU MUST SELECT AT LEAST ONE CONTROL MEASURE FOR EACH REQUIREMENT.
PLACE A CHECK IN THE BOX IN FRONT OF YOUR SELECTION.**

**Requirement: Stabilize soil to meet standards required by Air Quality
Regulation Section 90.**

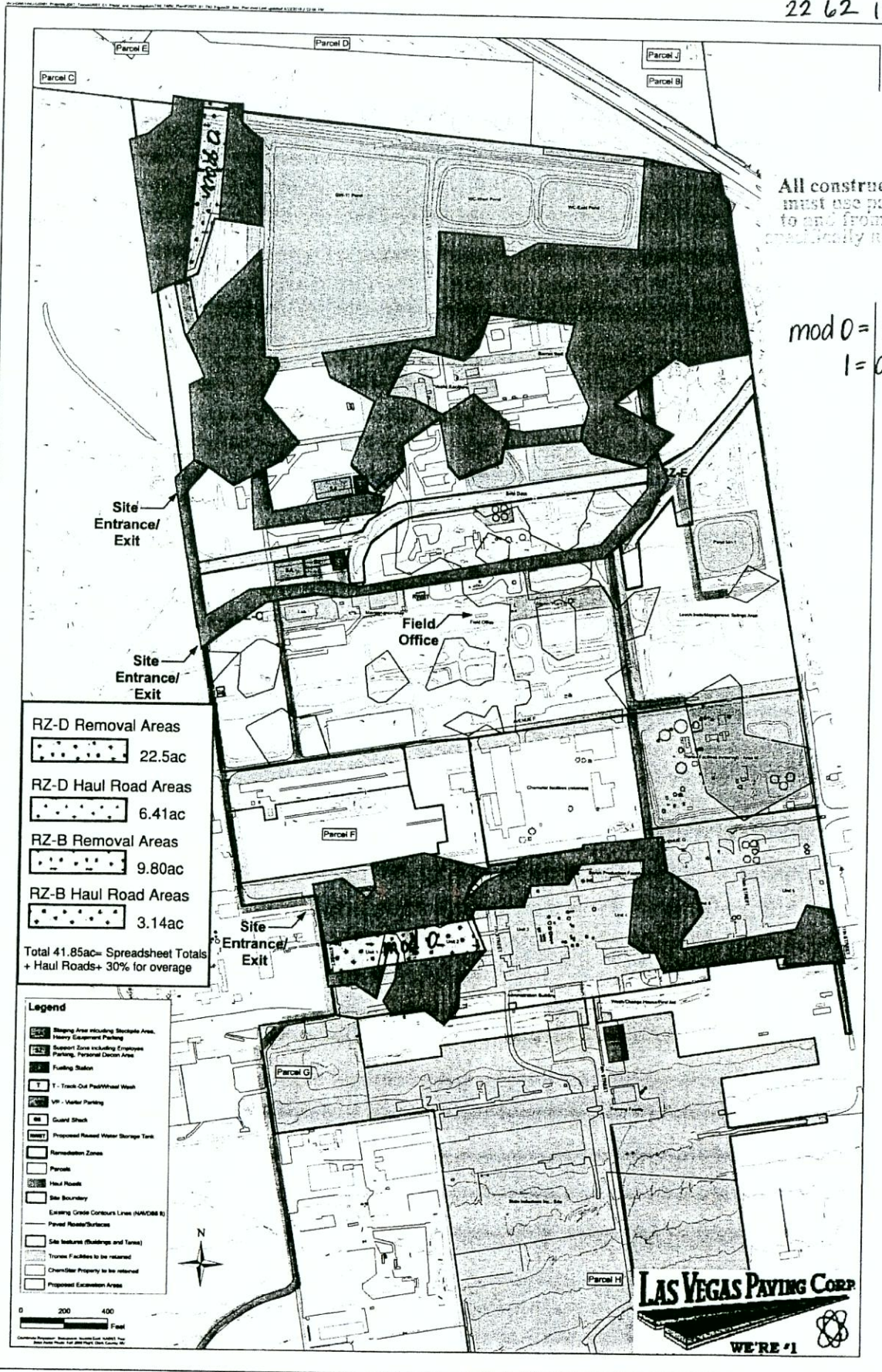
- 11-1 Apply and maintain a dust palliative on disturbed soils for long-term stabilization.
- 11-2 Stabilize disturbed soil with vegetation for long-term stabilization.
- 11-3 Pave or apply surface rock for long-term stabilization.
- 11-4 Use wind breaks in accordance with a site-specific plan approved by the Control Officer and Region IX Administrator of the EPA.
- 11-5 Apply water and maintain soils in a visible damp or crusted condition for temporary stabilization.

Requirement: Prevent access to limit soil disturbance.

- 11-6 Prevent access by fencing, ditches, vegetation, berms or other suitable barrier or means approved by the Control Officer.

Recommendations: Plant perimeter vegetation early. Use of native and drought-tolerant plants with greater than 50 % silhouette area is encouraged.

See also: BMP 12: DUST SUPPRESSANT, DUST PALLIATIVE AND SURFACTANT – Selection and Use.



All construction traffic must use paved access to and from site unless specifically noted on map.

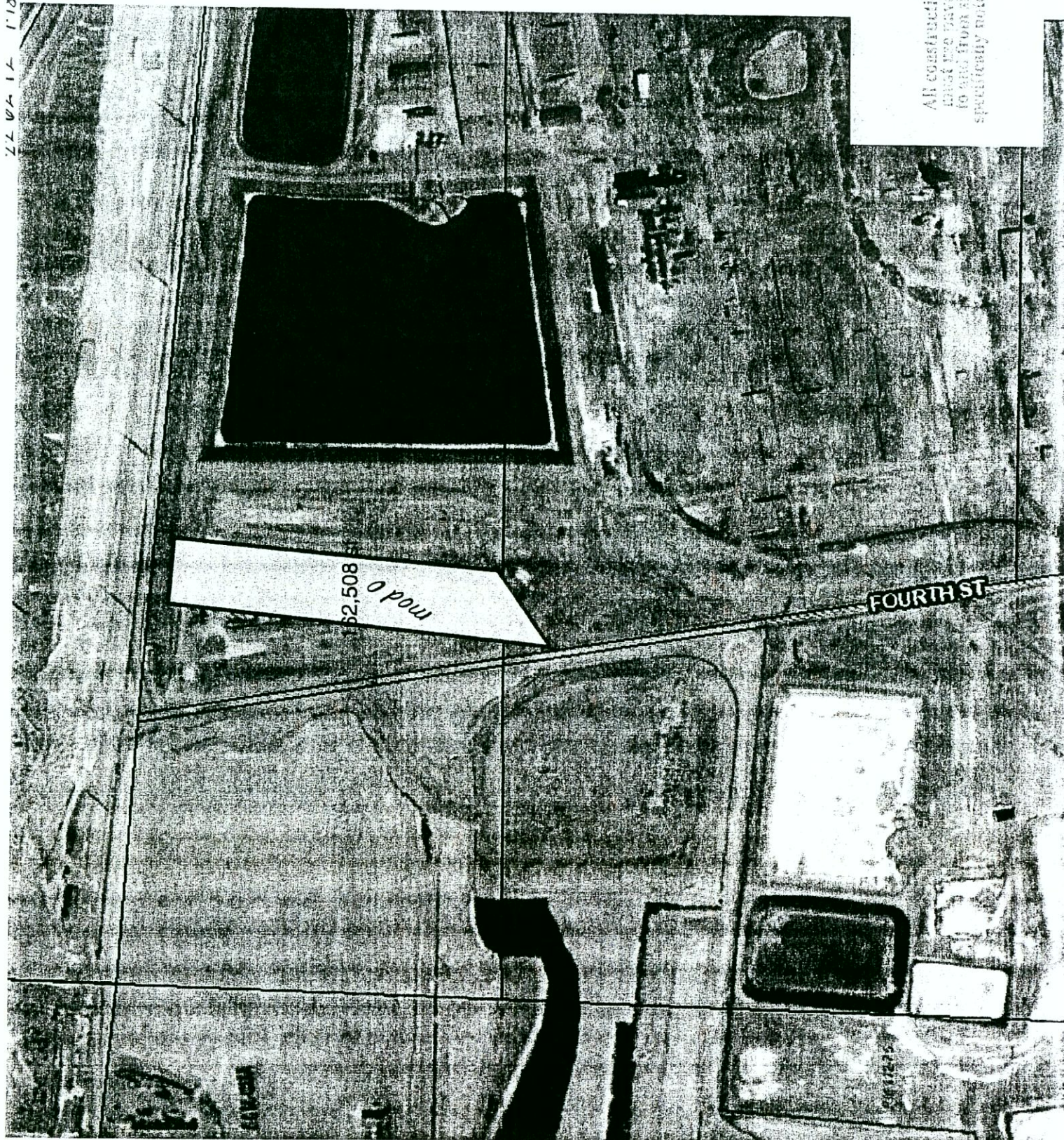
mod 0 = 6.6
1 = add 35.6

RZ-D Removal Areas 22.5ac
 RZ-D Haul Road Areas 6.41ac
 RZ-B Removal Areas 9.80ac
 RZ-B Haul Road Areas 3.14ac
 Total 41.85ac= Spreadsheet Totals + Haul Roads+ 30% for overage



22 04 14 1'18 12 2

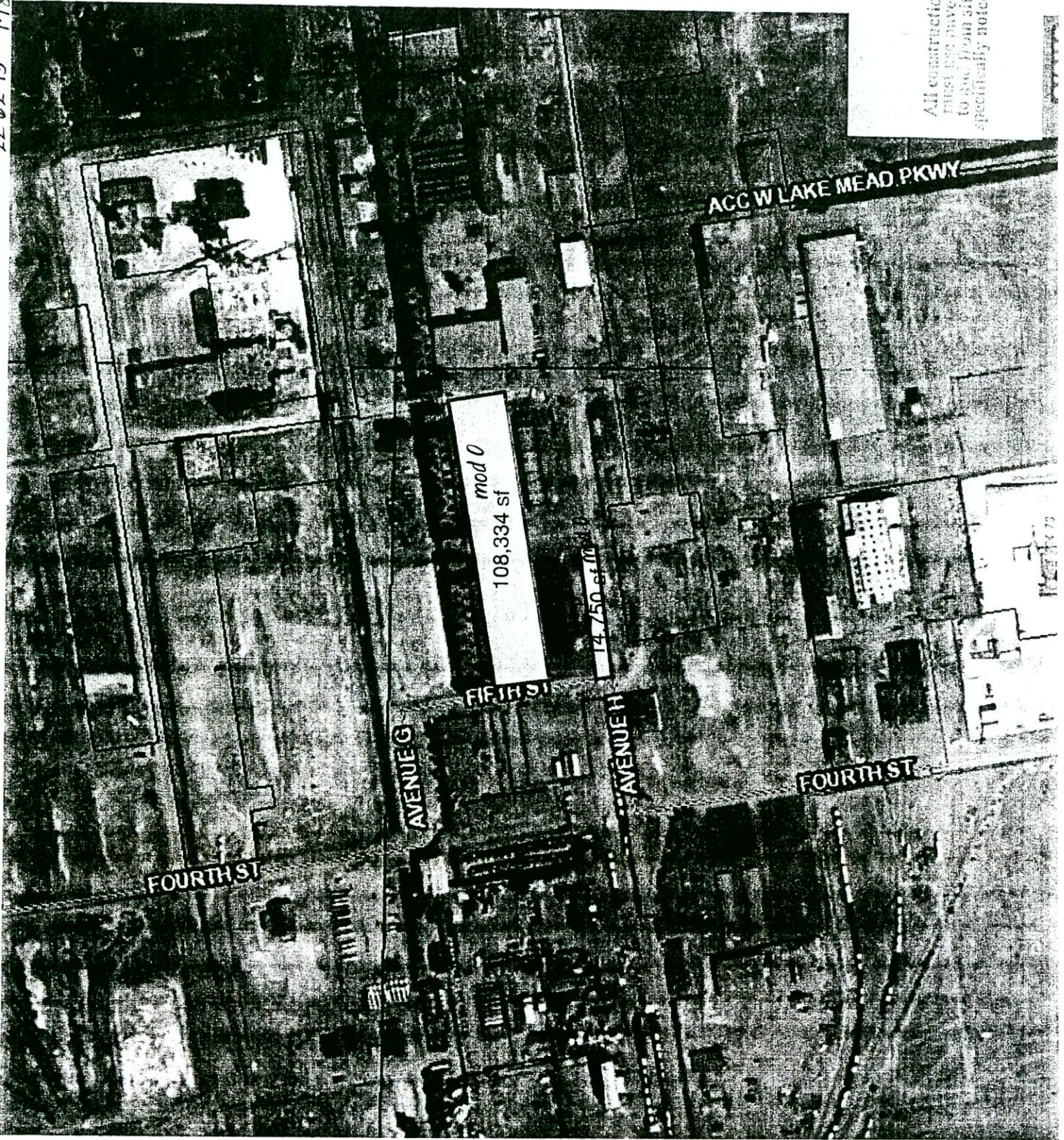
38851



All construction traffic
 must use paved access
 to site from site access
 specifically noted on map.

AGREE TO CHANGES KB
 DATE 8-12-10 INITIAL

1 01 811 118 118 118
38851



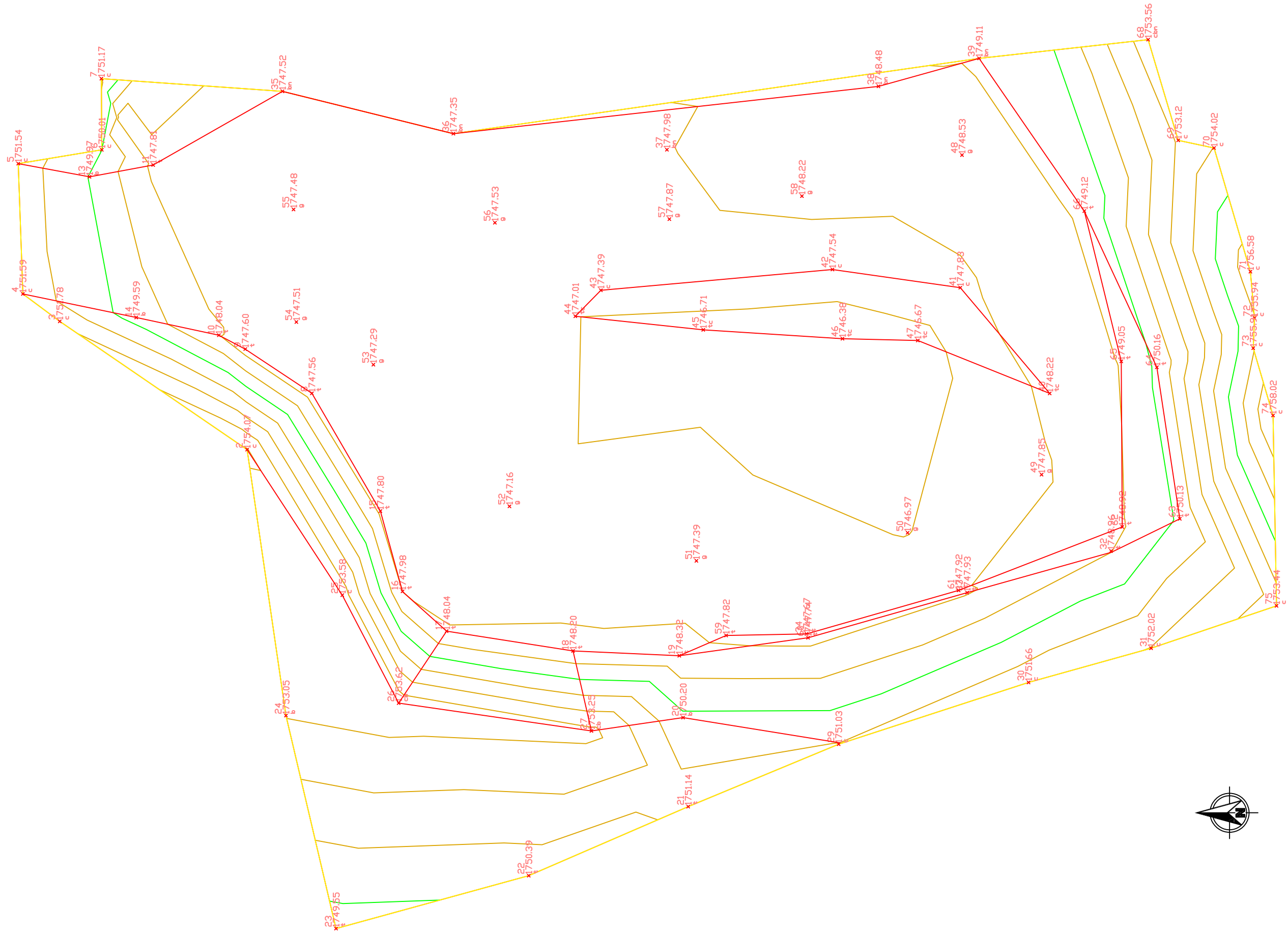
mod 0 = 6.6

AGREE TO CHANGES

DATE 8-12-10

XB
INITIAL

Appendix C
Envirocon Closeout Documentation



Drawn: DJJ

Checked: -

Approved: -

Date: 10/29/2013

Project No. 1490301

TITLE:

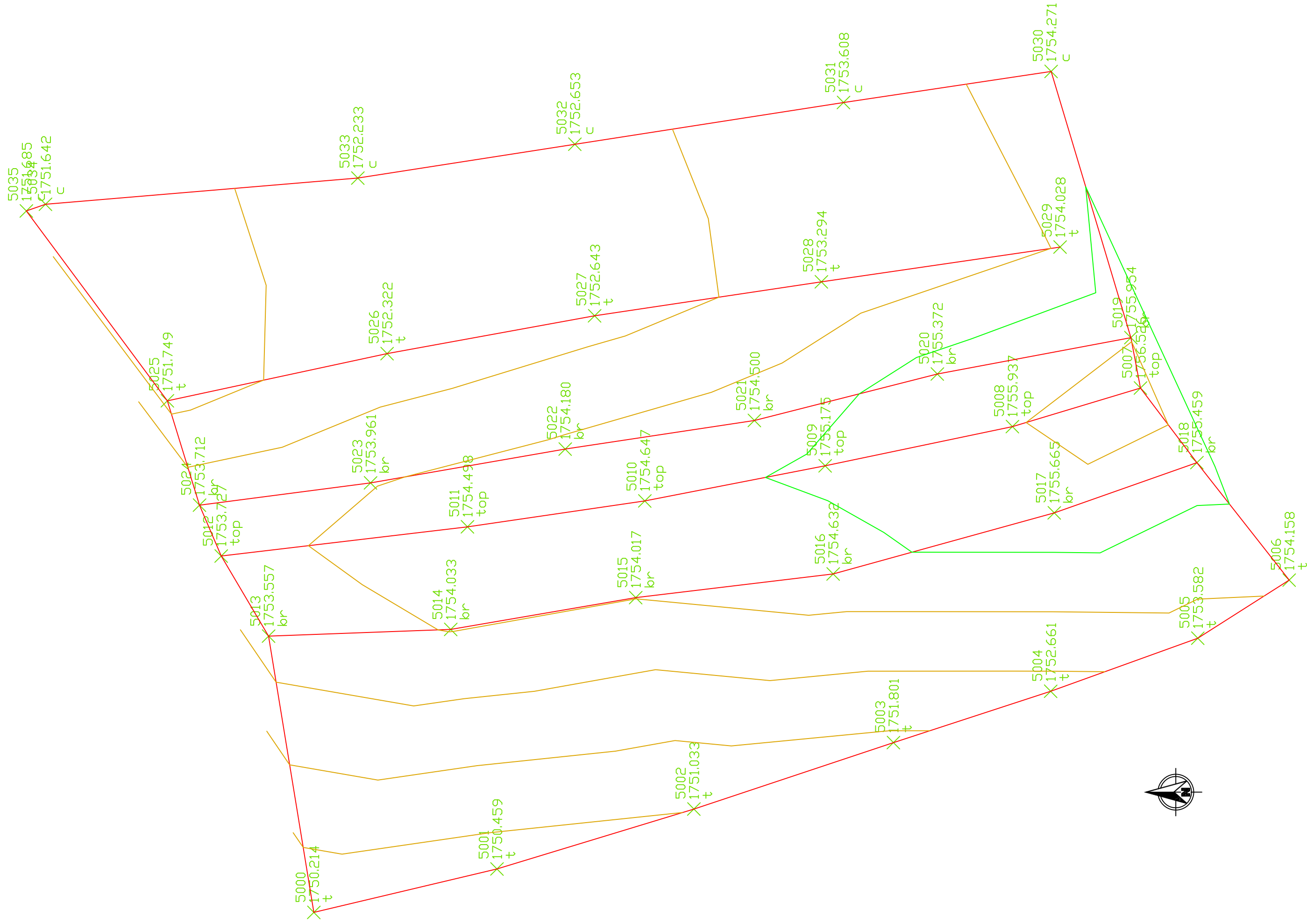
NERT EXCAVATION

PREPARED FOR:

NERT BETA/DITCH PROJECT



Envirocon
651 Corporate Circle Suite 114
Golden, CO 80401



TITLE:

Drawn: DJJ

Checked:

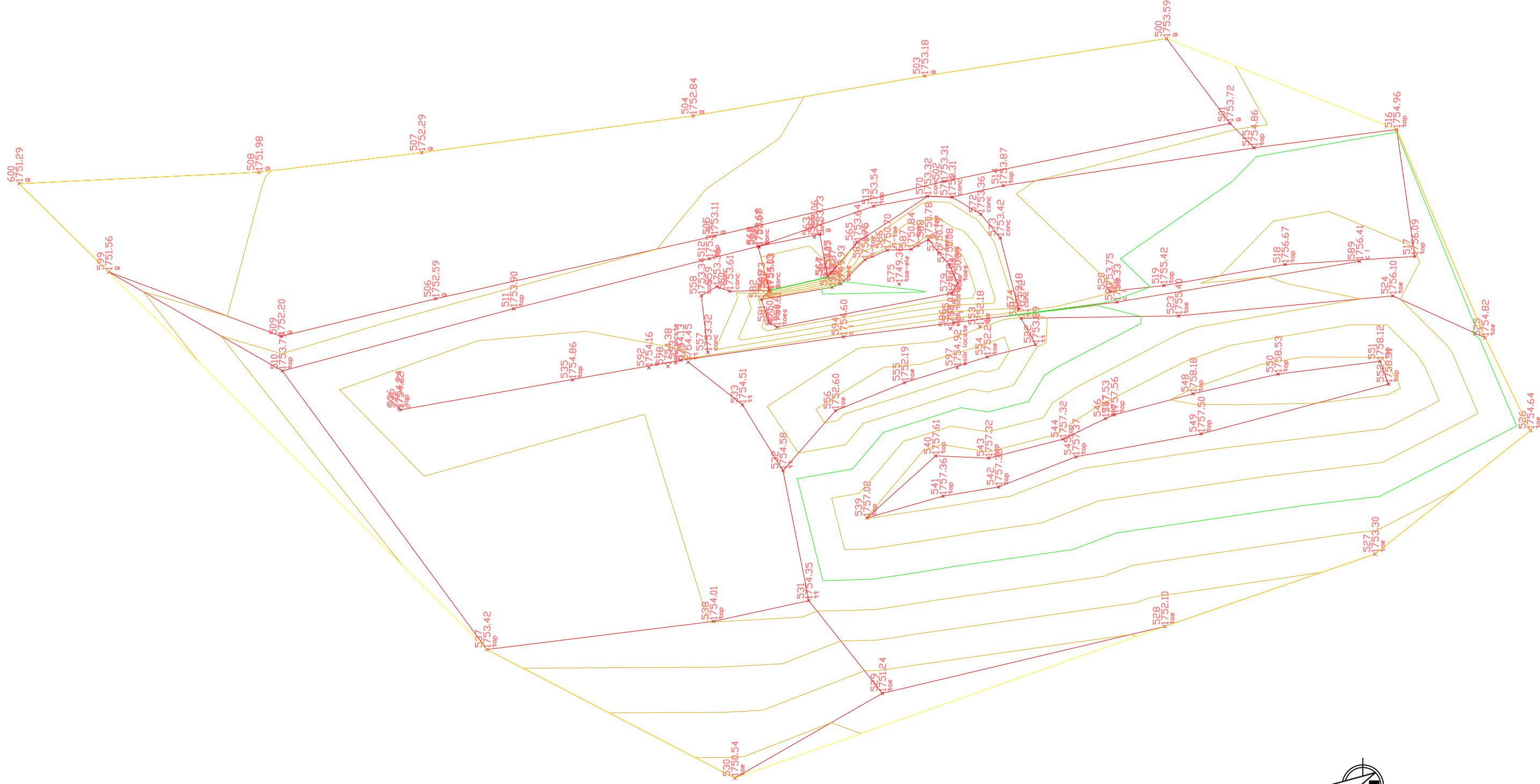
Approved: -

Date: 10/29/2013

Project No. 1490301

PREPARED FOR:
NERT BETA/DITCH PROJECT





Drawn: DJJ

Checked: -

Approved: -

Date: 10/29/2013

Project No. 1490301

TITLE:

NERT PRE-TOPD

PREPARED FOR:

NERT BETA/DITCH PROJECT



Envirocon
651 Corporate Circle Suite 114
Golden, CO 80401



**2013 NERT Tronox Sump - Henderson
Daily Report Job # 1491501**

REPORT BY:	R. Whitman	Weather:	(temp.,wind,precip.) 80 to 90 degrees Clear & calm.	Date:	10/7/2013	
Safety Meeting	Yes	Safety Meeting Topic : Observations & Planned Activities.			Day:	Monday
Over-site: Nita Shinn (Environ)					Shift:	6:00 16:00

Personel on site			Equipment on Site					Activities		
Operator's Name	Hours	Position	Type	Desc	Equip #	Hours Op.	Standby	Site Operations		WBS
A. Buell		Project Director	Chevy	Pickup	3775			Management	X	2201
A. Simmons		Project Manager	Chevy	Pickup	3846			Health & Safety	X	2202
R. Whitman		Const. Manager	Chevy	Pickup	3844			Mobilization		0101
D. Johnson		Project Engineer	Chevy	Pickup	3926					
R. Lee		Safety Manager	CAT 345	Excavator	R22811		10	Survey		0401
J. Borth		Foreman	Trimble GCS900	GPS for Exc.	3704		10	Site Set-Up		0201
I. McCauley	10	Operator	Doosan 225	breaker				Soil Excavation		0201
R. Malone		Operator	Doosan 225	Exc/thumb	R22802			ACM Excavation		0201
K. Pittser		Operator	CAT D6T	Bulldozer	R22801			Demolition		0201
		Operator	Trimble GCS900	GPS for Dozer	3655			Transport		0201
A. Macias		Truck Driver	CAT 966K	Loader	R22828			Import Trucking		0201
E. McKinley	5	Truck Driver	CAT 14H	Motor Patrol	3427			Backfill		0201
		Labor	CAT 621F	Water Pull	R22800		5			
		Labor	10,000 Gallon	Water Tower	3369		5			
				Loader/Forks						
			2,000 Gallon	Water Truck	R22804		10			
			CAT XQ20	25KW Genset	R22809		5			
			CAT DCA45	45KVA Genset	R22810					
			Neptune	Wheel Wash						
I. Seymour		Field Mechanic	Ford F650	Service Truck	3593			Equipment Fuel		2207
			Ford F650	Lube Truck	3700			Demobilize		0102

Activity Desc:	Nita collected & shipped confirmation samples.
Activity Desc:	Awaiting Sample Results
Activity Desc:	Awaiting Sample Results
Activity Desc:	Awaiting Sample Results

JOB Deliveries			
Supplier/Subcontracts	On-site?	Quantity	Description of Delivery, Materials, Service, Notes
Impact Trucking			Import 0 loads of general fill.
Werdeco Trucking	No		Export ACM/Ditch Soils. 0 Loads of ACM & 0 Loads of ditch soils.
Diamondback			Pre Topo, Layout, Record Progress & Final As-built
Walker Specialty	No		ACM Removal. 8 Man Crew
Geotek			Tested backfill density.
Canyon State Oil			Delivered 0 gallons of Fuel

Material Quantities											
Type II Road Mat'l	ACM	Total ACM	General Tons	Total General Tons	General Loads	Total Loads	Waste Loads	Total Lds	Off-Site Tn	TOTAL TONS	Water
0 / 0	0	325.00	0	0	0	0	0	40	0	791.00	0

Miscellaneous/Notes:

2013 NERT Tronox Sump - Henderson Job # 1491501
Daily Force Account Worksheet
Estimated Costs

Description of Work Performed: See Activity Descriptions above

Date Work Performed: October 7, 2013

Labor (Employee)	Classification	Reg Hrs	OT Hrs	Reg Rate	OT Rate	Amount	WBS Coding
A. Buell	Project Director	-	N/A	\$ 155.31	N/A	\$ -	2201
A. Simmons	Project Manager	-	N/A	\$ 143.03	N/A	\$ -	2201
R. Whitman	Const. Manager	-	N/A	\$ 137.06	N/A	\$ -	2201
D. Johnson	Project Engineer	-	N/A	\$ 110.34	N/A	\$ -	2201
R. Lee	Safety Manager	-	N/A	\$ 115.83	N/A	\$ -	2202
J. Borth	Foreman	-	-	\$ 43.00	\$ 56.12	\$ -	0201
I. McCauley	Operator	10.0	-	\$ 40.21	\$ 52.01	\$ 402.10	0201
R. Malone	Operator	-	-	\$ 40.21	\$ 52.01	\$ -	0201
K. Pittser	Operator	-	-	\$ 40.21	\$ 52.01	\$ -	0201
	Operator	-	-	\$ 36.04	\$ 45.85	\$ -	0201
A. Macias	Truck Driver	-	-	\$ 31.87	\$ 39.70	\$ -	0201
E. McKinley	Truck Driver	-	5.0	\$ 31.87	\$ 39.70	\$ 198.50	0201
	Labor	-	-	\$ 29.10	\$ 35.60	\$ -	0201
	Labor	-	-	\$ 29.10	\$ 35.60	\$ -	0201
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
I. Seymor	Field Mechanic	-	-	\$ 43.00	\$ 56.12	\$ -	2201
		-	-	\$ -	\$ -	\$ -	
Total Labor						\$ 600.60	

Equipment	Unit #	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding
Chevy Pickup	3775	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy Pickup	3846	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy Pickup	3844	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy Pickup	3926	-	-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345 Excavator	R22811	-	10.0	\$ 121.29	\$ 84.46	\$ 844.60	0201
Trimble GCS900 GPS for Exc.	3704	-	10.0	\$ 37.98	\$ 36.30	\$ 363.00	0201
Doosan 225 breaker		-	-	\$ 201.72	\$ 170.63	\$ -	0201
Doosan 225 Exc/thumb	R22802	-	-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T Bulldozer	R22801	-	-	\$ 85.40	\$ 54.60	\$ -	0201
Trimble GCS900 GPS for Dozer	3655	-	-	\$ 37.98	\$ 36.30	\$ -	0201
CAT 966K Loader	R22828	-	-	\$ 126.92	\$ 85.31	\$ -	0201
CAT 14H Motor Patrol	3427	-	-	\$ 69.89	\$ 41.46	\$ -	0201
CAT 621F Water Pull	R22800	-	5.0	\$ 96.08	\$ 64.84	\$ 324.20	0201
10,000 Gallon Water Tower	3369	-	5.0	\$ 4.74	\$ 3.55	\$ 17.75	0201
Loader/Forks		-	-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon Water Truck	R22804	-	10.0	\$ 57.17	\$ 35.49	\$ 354.90	0201
CAT XQ20 25KW Genset	R22809	-	5.0	\$ 12.27	\$ 4.95	\$ 24.75	0201
CAT DCA45 45KVA Genset	R22810	-	5.0	\$ 23.20	\$ 10.88	\$ 54.40	0201
Neptune Wheel Wash		-	5.0	\$ 60.69	\$ 58.17	\$ 290.85	0201
Ford F650 Service Truck	3593	-	-	\$ 42.42	\$ 35.83	\$ -	0201
Ford F650 Lube Truck	3700	-	-	\$ 42.06	\$ 35.49	\$ -	2207
Total Equipment						\$ 2,274.45	

Materials (Description)	Vendor	Cost	Tons	Amount	WBS Coding
Transport ACM to Apex	Werco Trucking	\$ 23.87	0	\$ -	
Transport SW to Apex	Werco Trucking	\$ 10.13	0	\$ -	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	0	\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
Total Materials				\$ -	

Subcontractors	Work Performed	Cost	Hours	Amount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$ -	0201
Walker Specialty	ACM Removal. 8 Man Crew	\$ 912.18		\$ -	0201
Geotek	Tested backfill density.	\$ -		\$ -	0201
		\$ -		\$ -	
		\$ -		\$ -	
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -		\$ -	2207
Total Subcontractors				\$ -	

Per Diems / Mileage	Days	Rate	Amount	WBS Coding
Andrew Simmons		\$ 106.62	\$ -	2201
Richard Whitman		\$ 106.62	\$ -	2201
Dennis Johnson		\$ 106.62	\$ -	2201
Reggie Lee		\$ 106.62	\$ -	2201
John Borth		\$ 94.77	\$ -	2201
Russ Malone		\$ 94.77	\$ -	2201
Kevin Pittser		\$ 94.77	\$ -	2201
Ivan Seymor		\$ 94.77	\$ -	2201
Ike McCauley	1	\$ 94.77	\$ 94.77	2201
Total per diems			\$ 94.77	

\$ 2,969.82 Daily Force Account Total



**2013 NERT Tronox Sump - Henderson
Daily Report Job # 1491501**

REPORT BY:	R. Whitman	Weather:	(temp.,wind,precip.) 80 to 90 degrees Clear & calm.	Date:	10/8/2013	
Safety Meeting	Yes	Safety Meeting Topic : Observations & Planned Activities.			Day:	Tuesday
Personnel on site				Shift:		
				6:00 16:00		

Over-site: Nita Shinn (Environ)

Personnel on site			Equipment on Site				Activities				
Operator's Name	Hours	Position	Type	Desc	Equip #	Hours Op.	Standby	Site Operations	WBS		
A. Buell		Project Director	Chevy	Pickup	3775			Management	X	2201	
A. Simmons		Project Manager	Chevy	Pickup	3846			Health & Safety	X	2202	
R. Whitman		Const. Manager	Chevy	Pickup	3844			Mobilization		0101	
D. Johnson		Project Engineer	Chevy	Pickup	3926						
R. Lee		Safety Manager	CAT 345	Excavator	R22811		10	Survey		0401	
J. Borth		Foreman	Trimble GCS900	GPS for Exc.	3704		10	Site Set-Up		0201	
I. McCauley	10	Operator	Doosan 225	breaker				Soil Excavation		0201	
R. Malone		Operator	Doosan 225	Exc/thumb	R22802			ACM Excavation		0201	
K. Pitsner		Operator	CAT D6T	Bulldozer	R22801			Demolition		0201	
		Operator	Trimble GCS900	GPS for Dozer	3655			Transport		0201	
A. Macias		Truck Driver	CAT 966K	Loader	R22828			Import Trucking		0201	
E. McKinley	5	Truck Driver	CAT 14H	Motor Patrol	3427			Backfill		0201	
		Labor	CAT 621F	Water Pull	R22800		5				
		Labor	10,000 Gallon	Water Tower	3369		5				
				Loader/Forks							
			2,000 Gallon	Water Truck	R22804		10				
			CAT XQ20	25KW Genset	R22809		5				
			CAT DCA45	45KVA Genset	R22810		5				
			Neptune	Wheel Wash			5				
I. Seymour		Field Mechanic	Ford F650	Service Truck	3593			Equipment Fuel		2207	
			Ford F650	Lube Truck	3700			Demobilize		0102	

Activity Desc: Awaiting Sample Results to perform backfill

Activity Desc: Awaiting Sample Results to perform backfill

Activity Desc: Awaiting Sample Results to perform backfill

Activity Desc: Awaiting Sample Results to perform backfill

JOB Deliveries

Supplier/Subcontract	On-site?	Quantity	Description of Delivery, Materials, Service, Notes
Impact Trucking			Import 0 loads of general fill.
Werdco Trucking	No		Export ACM/Ditch Soils. 0 Loads of ACM & 0 Loads of ditch soils.
Diamondback			Pre Topo, Layout, Record Progress & Final As-built
Walker Specialty	No		ACM Removal. 8 Man Crew
Geotek			Tested backfill density.
Canyon State Oil			Delivered 0 gallons of Fuel

Material Quantities

Type II Road Mat'l	ACM	Total ACM	General Tons	Total General Tons	General Loads	Total Loads	Waste Loads	Total Lds	Off-Site Tn	TOTAL TONS	Water
0 / 0	0	325.00	0	0	0	0	0	40	0	791.00	0

Miscellaneous/Notes:

2013 NERT Tronox Sump - Henderson Job # 1491501
Daily Force Account Worksheet
Estimated Costs

Description of Work Performed: See Activity Descriptions above

Date Work Performed: October 8, 2013

Labor (Employee)	Classification	Reg Hrs	OT Hrs	Reg Rate	OT Rate	Amount	WBS Coding
A. Buell	Project Director	-	N/A	\$ 155.31	N/A	\$ -	2201
A. Simmons	Project Manager	-	N/A	\$ 143.03	N/A	\$ -	2201
R. Whitman	Const. Manager	-	N/A	\$ 137.06	N/A	\$ -	2201
D. Johnson	Project Engineer	-	N/A	\$ 110.34	N/A	\$ -	2201
R. Lee	Safety Manager	-	N/A	\$ 115.83	N/A	\$ -	2202
J. Borth	Foreman	-	-	\$ 43.00	\$ 56.12	\$ -	0201
I. McCauley	Operator	10.0	-	\$ 40.21	\$ 52.01	\$ 402.10	0201
R. Malone	Operator	-	-	\$ 40.21	\$ 52.01	\$ -	0201
K. Pittser	Operator	-	-	\$ 40.21	\$ 52.01	\$ -	0201
	Operator	-	-	\$ 36.04	\$ 45.85	\$ -	0201
A. Macias	Truck Driver	-	-	\$ 31.87	\$ 39.70	\$ -	0201
E. McKinley	Truck Driver	-	5.0	\$ 31.87	\$ 39.70	\$ 198.50	0201
	Labor	-	-	\$ 29.10	\$ 35.60	\$ -	0201
	Labor	-	-	\$ 29.10	\$ 35.60	\$ -	0201
		-	-	\$ -	\$ -	\$ -	-
		-	-	\$ -	\$ -	\$ -	-
		-	-	\$ -	\$ -	\$ -	-
		-	-	\$ -	\$ -	\$ -	-
		-	-	\$ -	\$ -	\$ -	-
		-	-	\$ -	\$ -	\$ -	-
		-	-	\$ -	\$ -	\$ -	-
		-	-	\$ -	\$ -	\$ -	-
I. Seymor	Field Mechanic	-	-	\$ 43.00	\$ 56.12	\$ -	2201
		-	-	\$ -	\$ -	\$ -	-
Total Labor						\$ 600.60	

Equipment	Unit #	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding
Chevy Pickup	3775	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy Pickup	3846	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy Pickup	3844	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy Pickup	3926	-	-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345	R22811	-	10.0	\$ 121.29	\$ 84.46	\$ 844.60	0201
Trimble GCS900	GPS for Exc.	-	10.0	\$ 37.98	\$ 36.30	\$ 363.00	0201
Doosan 225	breaker	-	-	\$ 201.72	\$ 170.63	\$ -	0201
Doosan 225	Exc/thumb	-	-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T	Bulldozer	-	-	\$ 85.40	\$ 54.60	\$ -	0201
Trimble GCS900	GPS for Dozer	-	-	\$ 37.98	\$ 36.30	\$ -	0201
CAT 966K	Loader	-	-	\$ 126.92	\$ 85.31	\$ -	0201
CAT 14H	Motor Patrol	-	-	\$ 69.89	\$ 41.46	\$ -	0201
CAT 621F	Water Pull	-	5.0	\$ 96.08	\$ 64.84	\$ 324.20	0201
10,000 Gallon	Water Tower	-	5.0	\$ 4.74	\$ 3.55	\$ 17.75	0201
	Loader/Forks	-	-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon	Water Truck	-	10.0	\$ 57.17	\$ 35.49	\$ 354.90	0201
CAT XQ20	25KW Genset	-	5.0	\$ 12.27	\$ 4.95	\$ 24.75	0201
CAT DCA45	45KVA Genset	-	5.0	\$ 23.20	\$ 10.88	\$ 54.40	0201
Neptune	Wheel Wash	-	5.0	\$ 60.69	\$ 58.17	\$ 290.85	0201
Ford F650	Service Truck	-	-	\$ 42.42	\$ 35.83	\$ -	0201
Ford F650	Lube Truck	-	-	\$ 42.06	\$ 35.49	\$ -	2207
Total Equipment						\$ 2,274.45	

Materials (Description)	Vendor	Cost	Tons	Amount	WBS Coding
Transport ACM to Apex	Werdeco Trucking	\$ 23.87	0	\$ -	
Transport SW to Apex	Werdeco Trucking	\$ 10.13	0	\$ -	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	0	\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
Total Materials				\$ -	

Subcontractors	Work Performed	Cost	Hours	Amount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$ -	0201
Walker Specialty	ACM Removal. 8 Man Crew	\$ 912.18		\$ -	0201
Geotek	Tested backfill density.	\$ -		\$ -	0201
		\$ -		\$ -	
		\$ -		\$ -	
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -		\$ -	2207
Total Subcontractors				\$ -	

Per Diems / Mileage	Days	Rate	Amount	WBS Coding
Andrew Simmons		\$ 106.62	\$ -	2201
Richard Whitman		\$ 106.62	\$ -	2201
Dennis Johnson		\$ 106.62	\$ -	2201
Reggie Lee		\$ 106.62	\$ -	2201
John Borth		\$ 94.77	\$ -	2201
Russ Malone		\$ 94.77	\$ -	2201
Kevin Pittser		\$ 94.77	\$ -	2201
Ivan Seymor		\$ 94.77	\$ -	2201
Ike McCauley	1	\$ 94.77	\$ 94.77	2201
Total per diems			\$ 94.77	

\$ 2,969.82 Daily Force Account Total



**2013 NERT Tronox Sump - Henderson
Daily Report Job # 1491501**

REPORT BY:	R. Whitman	Weather:	(temp.,wind,precip.) 80 to 90 degrees Clear & breezy.	Date:	10/9/2013	
Safety Meeting	Yes	Safety Meeting Topic : Observations & Planned Activities.			Day:	Wednesday
Oversite: Nita Shinn (Environ)					Shift:	6:00 16:00

Personnel on site			Equipment on Site					Activities		
Operator's Name	Hours	Position	Type	Desc	Equip #	Hours Op.	Standby	Site Operations	WBS	
A. Buell		Project Director	Chevy	Pickup	3775	8		Management	X	2201
A. Simmons	2	Project Manager	Chevy	Pickup	3846			Health & Safety	X	2202
R. Whitman	8	Const. Manager	Chevy	Pickup	3844	8		Mobilization		0101
D. Johnson		Project Engineer	Chevy	Pickup	3926					
R. Lee	8	Safety Manager	CAT 345	Excavator	R22811		10	Survey		0401
J. Borth		Foreman	Trimble GCS900	GPS for Exc.	3704		10	Site Set-Up		0201
I. McCauley	10	Operator	Doosan 225	breaker				Soil Excavation		0201
R. Malone	5	Operator	Doosan 225	Exc/thumb	R22802			ACM Excavation		0201
K. Pittser	5	Operator	CAT D6T	Bulldozer	R22801	5		Demolition		0201
		Operator	Trimble GCS900	GPS for Dozer	3655	5		Transport		0201
A. Macias	5	Truck Driver	CAT 966K	Loader	R22828	5		Import Trucking	X	0201
E. McKinley	10	Truck Driver	CAT 14H	Motor Patrol	3427	5		Backfill		0201
		Labor	CAT 621F	Water Pull	R22800	5				
		Labor	10,000 Gallon	Water Tower	3369	5				
				Loader/Forks						
			2,000 Gallon	Water Truck	R22804		10			
			CAT XQ20	25KW Genset	R22809	5				
			CAT DCA45	45KVA Genset	R22810	5				
			Neptune	Wheel Wash		5				
I. Seymor	1	Field Mechanic	Ford F650	Service Truck	3593			Equipment Fuel	X	2207
			Ford F650	Lube Truck	3700	1		Demobilize		0102

Activity Desc:	
Activity Desc:	Imported fill material. Dumped on the Timet fill material to condition with patrol & water pull. Had loader pile conditioned material beside excavation.
Activity Desc:	Kept excavator & water truck on standby until analytical results for the south side of the excavation are in. Mechanic performed fueling at the end of the day (OT)
Activity Desc:	

JOB Deliveries			
Supplier/Subcontract	On-site?	Quantity	Description of Delivery, Materials, Service, Notes
Impact Trucking	Yes	2	Import 15 loads of general fill.
Werdeco Trucking	No		Export ACM/Ditch Soils. 0 Loads of ACM & 0 Loads of ditch soils.
Diamondback			Pre Topo, Layout, Record Progress & Final As-built
Walker Specialty	No		ACM Removal. 8 Man Crew
Geotek			Tested backfill density.
Canyon State Oil			Delivered 0 gallons of Fuel

Material Quantities											
Type II Road Mat'l	ACM	Total ACM	General Tons	Total General Tons	General Loads	Total Loads	Waste Loads	Total Lds	Off-Site Tn	TOTAL TONS	Water
0 / 0	0	325.00	595.00	595.00	15	15	0	40	0	791.00	0

Miscellaneous/Notes:

2013 NERT Tronox Sump - Henderson Job # 1491501
Daily Force Account Worksheet
Estimated Costs

Description of Work Performed: See Activity Descriptions above							
Date Work Performed: October 9, 2013							
Labor (Employee)	Classification	Reg Hrs	OT Hrs	Reg Rate	OT Rate	Amount	WBS Coding
A. Buell	Project Director	-	N/A	\$ 155.31	N/A	\$ -	2201
A. Simmons	Project Manager	2.0	N/A	\$ 143.03	N/A	\$ 286.06	2201
R. Whitman	Const. Manager	8.0	N/A	\$ 137.06	N/A	\$ 1,096.48	2201
D. Johnson	Project Engineer	-	N/A	\$ 110.34	N/A	\$ -	2201
R. Lee	Safety Manager	8.0	N/A	\$ 115.83	N/A	\$ 926.64	2202
J. Borth	Foreman	-	-	\$ 43.00	\$ 56.12	\$ -	0201
I. McCauley	Operator	-	10.0	\$ 40.21	\$ 52.01	\$ 520.10	0201
R. Malone	Operator	5.0	-	\$ 40.21	\$ 52.01	\$ 201.05	0201
K. Pittser	Operator	5.0	-	\$ 40.21	\$ 52.01	\$ 201.05	0201
	Operator	-	-	\$ 36.04	\$ 45.85	\$ -	0201
A. Macias	Truck Driver	5.0	-	\$ 31.87	\$ 39.70	\$ 159.35	0201
E. McKinley	Truck Driver	10.0	-	\$ 31.87	\$ 39.70	\$ 318.70	0201
	Labor	-	-	\$ 29.10	\$ 35.60	\$ -	0201
	Labor	-	-	\$ 29.10	\$ 35.60	\$ -	0201
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
I. Seymor	Field Mechanic	1.0	-	\$ 43.00	\$ 56.12	\$ 43.00	2201
		-	-	\$ -	\$ -	\$ -	
Total Labor						\$ 3,752.43	

Equipment	Unit #	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding
Chevy Pickup	3775	8.0	-	\$ 9.54	\$ 5.09	\$ 76.32	2201
Chevy Pickup	3846	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy Pickup	3844	8.0	-	\$ 9.54	\$ 5.09	\$ 76.32	2201
Chevy Pickup	3926	-	-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345 Excavator	R22811	-	10.0	\$ 121.29	\$ 84.46	\$ 844.60	0201
Trimble GCS900 GPS for Exc.	3704	-	10.0	\$ 37.98	\$ 36.30	\$ 363.00	0201
Doosan 225 breaker		-	-	\$ 201.72	\$ 170.63	\$ -	0201
Doosan 225 Exc/thumb	R22802	-	-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T Bulldozer	R22801	5.0	-	\$ 85.40	\$ 54.60	\$ 427.00	0201
Trimble GCS900 GPS for Dozer	3655	5.0	-	\$ 37.98	\$ 36.30	\$ 189.90	0201
CAT 966K Loader	R22828	5.0	-	\$ 126.92	\$ 85.31	\$ 634.60	0201
CAT 14H Motor Patrol	3427	5.0	-	\$ 69.89	\$ 41.46	\$ 349.45	0201
CAT 621F Water Pull	R22800	5.0	-	\$ 96.08	\$ 64.84	\$ 480.40	0201
10,000 Gallon Water Tower	3369	5.0	-	\$ 4.74	\$ 3.55	\$ 23.70	0201
	Loader/Forks	-	-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon Water Truck	R22804	-	10.0	\$ 57.17	\$ 35.49	\$ 354.90	0201
CAT XQ20 25KW Genset	R22809	5.0	-	\$ 12.27	\$ 4.95	\$ 61.35	0201
CAT DCA45 45KVA Genset	R22810	5.0	-	\$ 23.20	\$ 10.88	\$ 116.00	0201
Neptune Wheel Wash		5.0	-	\$ 60.69	\$ 58.17	\$ 303.45	0201
Ford F650 Service Truck	3593	-	-	\$ 42.42	\$ 35.83	\$ -	0201
Ford F650 Lube Truck	3700	1.0	-	\$ 42.06	\$ 35.49	\$ 42.06	2207
Total Equipment						\$ 4,343.05	

Materials (Description)	Vendor	Cost	Tons	Amount	WBS Coding
Transport ACM to Apex	Werdeco Trucking	\$ 23.87	0	\$ -	
Transport SW to Apex	Werdeco Trucking	\$ 10.13	0	\$ -	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	\$ 595.00	\$ 6,610.45	
		\$ -		\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
Total Materials				\$ 6,610.45	

Subcontractors	Work Performed	Cost	Hours	Amount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$ -	0201
Walker Specialty	ACM Removal, 8 Man Crew	\$ 912.18		\$ -	0201
Geotek	Tested backfill density.	\$ -		\$ -	0201
		\$ -		\$ -	
		\$ -		\$ -	
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -		\$ -	2207
Total Subcontractors				\$ -	

Per Diems / Mileage	Days	Rate	Amount	WBS Coding
Andrew Simmons	0.25	\$ 106.62	\$ 26.66	2201
Richard Whitman	1	\$ 106.62	\$ 106.62	2201
Dennis Johnson		\$ 106.62	\$ -	2201
Reggie Lee	1	\$ 106.62	\$ 106.62	2201
John Borth		\$ 94.77	\$ -	2201
Russ Malone	0.5	\$ 94.77	\$ 47.39	2201
Kevin Pittser	0.5	\$ 94.77	\$ 47.39	2201
Ivan Seymor		\$ 94.77	\$ -	2201
Ike McCauley	1	\$ 94.77	\$ 94.77	2201
Total per diems			\$ 429.44	

\$ 15,135.37 Daily Force Account Total



**2013 NERT Tronox Sump - Henderson
Daily Report Job # 1491501**

REPORT BY:	R. Whitman	Weather:	(temp.,wind,precip.) 80 to 90 degrees Clear & 15 to 20 mph winds.	Date:	10/10/2013	
Safety Meeting	Yes	Safety Meeting Topic : Observations & Planned Activities.			Day:	Thursday
Oversite: Nita Shinn (Environ)					Shift:	6:00 16:00

Personnel on site			Equipment on Site					Activities		
Operator's Name	Hours	Position	Type	Desc	Equip #	Hours Op.	Standby	Site Operations	WBS	
A. Buell		Project Director	Chevy	Pickup	3775			Management	X 2201	
A. Simmons	2	Project Manager	Chevy	Pickup	3846			Health & Safety	X 2202	
R. Whitman		Const. Manager	Chevy	Pickup	3844			Mobilization	0101	
D. Johnson		Project Engineer	Chevy	Pickup	3926					
R. Lee		Safety Manager	CAT 345	Excavator	R22811		10	Survey	0401	
J. Borth		Foreman	Trimble GCS900	GPS for Exc.	3704		10	Site Set-Up	0201	
I. McCauley	10	Operator	Doosan 225	breaker				Soil Excavation	0201	
R. Malone		Operator	Doosan 225	Exc/thumb	R22802			ACM Excavation	0201	
K. Pittser		Operator	CAT D6T	Bulldozer	R22801			Demolition	0201	
		Operator	Trimble GCS900	GPS for Dozer	3655			Transport	0201	
A. Macias		Truck Driver	CAT 966K	Loader	R22828			Import Trucking	0201	
E. McKinley	10	Truck Driver	CAT 14H	Motor Patrol	3427			Backfill	0201	
		Labor	CAT 621F	Water Pull	R22800					
		Labor	10,000 Gallon	Water Tower	3369		5			
				Loader/Forks						
			2,000 Gallon	Water Truck	R22804		10			
			CAT XQ20	25KW Genset	R22809		5			
			CAT DCA45	45KVA Genset	R22810		5			
			Neptune	Wheel Wash			5			
I. Seymor		Field Mechanic	Ford F650	Service Truck	3593			Equipment Fuel	2207	
			Ford F650	Lube Truck	3700			Demobilize	0102	

Activity Desc: Nita has received analytical results back. One sample has Arsenic level slightly above limit. There are discussions about path forward.
No import today - awaiting to level existing stockpiled materials

Activity Desc: 2000 gallon water truck and 345 excavator/GPS and driver/operator on standby until notice to release received from Environ

Activity Desc:

Activity Desc:

JOB Deliveries			
Supplier/Subcontract	On-site?	Quantity	Description of Delivery, Materials, Service, Notes
Impact Trucking	No		Import 0 loads of general fill.
Werdeco Trucking	No		Export ACM/Ditch Soils. 0 Loads of ACM & 0 Loads of ditch soils.
Diamondback			Pre Topo, Layout, Record Progress & Final As-built
Walker Specialty	No		ACM Removal. 8 Man Crew
Geotek			Tested backfill density.
Canyon State Oil			Delivered 0 gallons of Fuel

Material Quantities											
Type II Road Mat'l	ACM	Total ACM	General Tons	Total General Tons	General Loads	Total Loads	Waste Loads	Total Lds	Off-Site Tn	TOTAL TONS	Water
0 / 0	0	325.00	0	595.00	0	15	0	40	0	791.00	0

Miscellaneous/Notes:

2013 NERT Tronox Sump - Henderson Job # 1491501
Daily Force Account Worksheet
Estimated Costs

Description of Work Performed: See Activity Descriptions above							
Date Work Performed: October 10, 2013							
Labor (Employee)	Classification	Reg Hrs	OT Hrs	Reg Rate	OT Rate	Amount	WBS Coding
A. Buell	Project Director	-	N/A	\$ 155.31	N/A	\$ -	2201
A. Simmons	Project Manager	2.0	N/A	\$ 143.03	N/A	\$ 286.06	2201
R. Whitman	Const. Manager	-	N/A	\$ 137.06	N/A	\$ -	2201
D. Johnson	Project Engineer	-	N/A	\$ 110.34	N/A	\$ -	2201
R. Lee	Safety Manager	-	N/A	\$ 115.83	N/A	\$ -	2202
J. Borth	Foreman	-		\$ 43.00	\$ 56.12	\$ -	0201
I. McCauley	Operator	-	10.0	\$ 40.21	\$ 52.01	\$ 520.10	0201
R. Malone	Operator	-		\$ 40.21	\$ 52.01	\$ -	0201
K. Pittser	Operator	-		\$ 40.21	\$ 52.01	\$ -	0201
	Operator	-		\$ 36.04	\$ 45.85	\$ -	0201
A. Macias	Truck Driver	-		\$ 31.87	\$ 39.70	\$ -	0201
E. McKinley	Truck Driver	10.0		\$ 31.87	\$ 39.70	\$ 318.70	0201
	Labor	-		\$ 29.10	\$ 35.60	\$ -	0201
	Labor	-		\$ 29.10	\$ 35.60	\$ -	0201
		-		\$ -	\$ -	\$ -	
		-		\$ -	\$ -	\$ -	
		-		\$ -	\$ -	\$ -	
		-		\$ -	\$ -	\$ -	
		-		\$ -	\$ -	\$ -	
		-		\$ -	\$ -	\$ -	
I. Seymor	Field Mechanic	-		\$ 43.00	\$ 56.12	\$ -	2201
		-		\$ -	\$ -	\$ -	
Total Labor						\$ 1,124.86	

Equipment	Unit #	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding
Chevy	Pickup 3775	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup 3846	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup 3844	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup 3926	-	-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345	Excavator R22811	-	10.0	\$ 121.29	\$ 84.46	\$ 844.60	0201
Trimble GCS900	GPS for Exc. 3704	-	10.0	\$ 37.98	\$ 36.30	\$ 363.00	0201
Doosan 225	breaker	-	-	\$ 201.72	\$ 170.63	\$ -	0201
Doosan 225	Exc/thumb R22802	-	-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T	Bulldozer R22801	-	-	\$ 85.40	\$ 54.60	\$ -	0201
Trimble GCS900	GPS for Dozer 3655	-	-	\$ 37.98	\$ 36.30	\$ -	0201
CAT 966K	Loader R22828	5.0	-	\$ 126.92	\$ 85.31	\$ 634.60	0201
CAT 14H	Motor Patrol 3427	-	-	\$ 69.89	\$ 41.46	\$ -	0201
CAT 621F	Water Pull R22800	-	-	\$ 96.08	\$ 64.84	\$ -	0201
10,000 Gallon	Water Tower 3369	-	5.0	\$ 4.74	\$ 3.55	\$ 17.75	0201
	Loader/Forks	-	-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon	Water Truck R22804	-	10.0	\$ 57.17	\$ 35.49	\$ 354.90	0201
CAT XQ20	25KW Genset R22809	-	5.0	\$ 12.27	\$ 4.95	\$ 24.75	0201
CAT DCA45	45KVA Genset R22810	-	5.0	\$ 23.20	\$ 10.88	\$ 54.40	0201
Neptune	Wheel Wash	-	5.0	\$ 60.69	\$ 58.17	\$ 290.85	0201
Ford F650	Service Truck 3593	-	-	\$ 42.42	\$ 35.83	\$ -	0201
Ford F650	Lube Truck 3700	-	-	\$ 42.06	\$ 35.49	\$ -	2207
Total Equipment						\$ 2,584.85	

Materials (Description)	Vendor	Cost	Tons	Amount	WBS Coding
Transport ACM to Apex	Werdeco Trucking	\$ 23.87	0	\$ -	
Transport SW to Apex	Werdeco Trucking	\$ 10.13	0	\$ -	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	0	\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
Total Materials				\$ -	

Subcontractors	Work Performed	Cost	Hours	Amount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$ -	0201
Walker Specialty	ACM Removal, 8 Man Crew	\$ 912.18		\$ -	0201
Geotek	Tested backfill density.	\$ -		\$ -	0201
		\$ -		\$ -	
		\$ -		\$ -	
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -		\$ -	2207
Total Subcontractors				\$ -	

Per Diems / Mileage	Days	Rate	Amount	WBS Coding
Andrew Simmons	0.25	\$ 106.62	\$ 26.66	2201
Richard Whitman		\$ 106.62	\$ -	2201



**2013 NERT Tronox Sump - Henderson
Daily Report Job # 1491501**

REPORT BY:	R. Whitman	Weather:	(temp.,wind,precip.) 70 to 80 degrees Clear & breezy.	Date:	10/11/2013	
Safety Meeting	Yes	Safety Meeting Topic: Observations & Planned Activities.			Day:	Friday
Personnel on site				Equipment on Site		Activities
Over-site: Nita Shinn (Environ) & Kris Everett (LS)						Shift: 6:00 16:00

Operator's Name	Hours	Position	Type	Desc	Equip #	Hours Op.	Standby	Site Operations	WBS
A. Buell		Project Director	Chevy	Pickup	3775	8		Management	X 2201
A. Simmons	2	Project Manager	Chevy	Pickup	3846			Health & Safety	X 2202
R. Whitman	8	Const. Manager	Chevy	Pickup	3844	8		Mobilization	0101
D. Johnson	4	Project Engineer	Chevy	Pickup	3926				
R. Lee	8	Safety Manager	CAT 345	Excavator	R22811		10	Survey	0401
J. Borth	6	Foreman	Trimble GCS900	GPS for Exc.	3704		10	Site Set-Up	0201
I. McCauley		Operator	Doosan 225	breaker				Soil Excavation	0201
R. Malone	6	Operator	Doosan 225	Exc/thumb	R22802			ACM Excavation	0201
K. Pittser	6	Operator	CAT D6T	Bulldozer	R22801	6	4	Demolition	0201
		Operator	Trimble GCS900	GPS for Dozer	3655	6	4	Transport	0201
A. Macias	6	Truck Driver	CAT 966K	Loader	R22828	6	4	Import Trucking	X 0201
E. McKinley	10	Truck Driver	CAT 14H	Motor Patrol	3427	6		Backfill	X 0201
		Labor	CAT 621F	Water Pull	R22800	6			
		Labor	10,000 Gallon	Water Tower	3369	5			
				Loader/Forks					
			2,000 Gallon	Water Truck	R22804		10		
			CAT XQ20	25KW Genset	R22809	5			
			CAT DCA45	45KVA Genset	R22810	5			
			Neptune	Wheel Wash		5			
I. Seymor	1	Field Mechanic	Ford F650	Service Truck	3593			Equipment Fuel	X 2207
			Ford F650	Lube Truck	3700	1		Demobilize	0102

Activity Desc: Received approval to begin backfilling excavation.
Surveyed the bottom of excavation for as-built.

Activity Desc: Imported fill material. Dumped on the Timet fill material to condition with patrol & water pull.
Moved cement barricades, & began backfilling excavation with bulldozer.
Wheel rolled each lift with loader & delivered material as it was conditioned.
Each lift was tested for compaction by Environ subcontractor

Activity Desc: Kept excavator & water truck on standby until decision was made about elevated arsenic in sample.
Mechanic fueled at the end of the day

Activity Desc:

JOB Deliveries

Supplier/Subcontract	On-site?	Quantity	Description of Delivery, Materials, Service, Notes
Impact Trucking	Yes	1	Import 9 loads of general fill.
Werdeco Trucking	No		Export ACM/Ditch Soils. 0 Loads of ACM & 0 Loads of ditch soils.
Diamondback	Yes	1	Pre Topo, Layout, Record Progress & Final As-built
Walker Specialty	No		ACM Removal. 8 Man Crew
Logistic Solutions	Yes	1	Tested backfill density.
Canyon State Oil			Delivered 0 gallons of Fuel

Material Quantities

Type II Road Mat'l	ACM	Total ACM	General Tons	Total General Tons	General Loads	Total Loads	Waste Loads	Total Lds	Off-Site Tn	TOTAL TONS	Water
0 / 0	0	325.00	421.00	1,016.00	9	24	0	40	0	791.00	X

Miscellaneous/Notes:

2013 NERT Tronox Sump - Henderson Job # 1491501
Daily Force Account Worksheet
Estimated Costs

Description of Work Performed:		See Activity Descriptions above						
Date Work Performed:		October 11, 2013						
Labor (Employee)	Classification	Reg Hrs	OT Hrs	Reg Rate	OT Rate	Amount	WBS Coding	
A. Buell	Project Director	-	N/A	\$ 155.31	N/A	\$ -	2201	
A. Simmons	Project Manager	2.0	N/A	\$ 143.03	N/A	\$ 286.06	2201	
R. Whitman	Const. Manager	8.0	N/A	\$ 137.06	N/A	\$ 1,096.48	2201	
D. Johnson	Project Engineer	4.0	N/A	\$ 110.34	N/A	\$ 441.36	2201	
R. Lee	Safety Manager	8.0	N/A	\$ 115.83	N/A	\$ 926.64	2202	
J. Borth	Foreman	-	6.0	\$ 43.00	\$ 56.12	\$ -	0201	
I. McCauley	Operator	-	-	\$ 40.21	\$ 52.01	\$ -	0201	
R. Malone	Operator	-	6.0	\$ 40.21	\$ 52.01	\$ -	0201	
K. Pittser	Operator	-	6.0	\$ 40.21	\$ 52.01	\$ 312.06	0201	
	Operator	-	-	\$ 36.04	\$ 45.85	\$ -	0201	
A. Macias	Truck Driver	-	6.0	\$ 31.87	\$ 39.70	\$ 238.20	0201	
E. McKinley	Truck Driver	-	10.0	\$ 31.87	\$ 39.70	\$ 397.00	0201	
	Labor	-	-	\$ 29.10	\$ 35.60	\$ -	0201	
	Labor	-	-	\$ 29.10	\$ 35.60	\$ -	0201	
		-	-	\$ -	\$ -	\$ -	-	
		-	-	\$ -	\$ -	\$ -	-	
		-	-	\$ -	\$ -	\$ -	-	
		-	-	\$ -	\$ -	\$ -	-	
		-	-	\$ -	\$ -	\$ -	-	
I. Sevmor	Field Mechanic	-	1.0	\$ 43.00	\$ 56.12	\$ 56.12	2201	
		-	-	\$ -	\$ -	\$ -	-	
Total Labor						\$ 3,753.92		

Equipment	Unit #	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding	
Chevy	Pickup	3775	8.0	\$ 9.54	\$ 5.09	\$ 76.32	2201	
Chevy	Pickup	3846	-	\$ 9.54	\$ 5.09	\$ -	2201	
Chevy	Pickup	3844	8.0	\$ 9.54	\$ 5.09	\$ 76.32	2201	
Chevy	Pickup	3926	-	\$ 9.54	\$ 5.09	\$ -	2201	
CAT 345	Excavator	R22811	-	10.0	\$ 121.29	\$ 84.46	\$ 844.60	0201
Trimble GCS900	GPS for Exc.	3704	-	10.0	\$ 37.98	\$ 36.30	\$ 363.00	0201
Doosan 225	breaker	-	-	\$ 201.72	\$ 170.63	\$ -	0201	
Doosan 225	Exc/thumb	R22802	-	\$ 112.71	\$ 85.31	\$ -	0201	
CAT D6T	Bulldozer	R22801	6.0	4.0	\$ 85.40	\$ 54.60	\$ 730.80	0201
Trimble GCS900	GPS for Dozer	3655	6.0	4.0	\$ 37.98	\$ 36.30	\$ 373.08	0201
CAT 966K	Loader	R22828	1.0	4.0	\$ 126.92	\$ 85.31	\$ 468.16	0201
CAT 14H	Motor Patrol	3427	6.0	-	\$ 69.89	\$ 41.46	\$ 419.34	0201
CAT 621F	Water Pull	R22800	6.0	-	\$ 96.08	\$ 64.84	\$ 576.48	0201
10,000 Gallon	Water Tower	3369	5.0	-	\$ 4.74	\$ 3.55	\$ 23.70	0201
	Loader/Forks	-	-	\$ 58.89	\$ 40.54	\$ -	0201	
2,000 Gallon	Water Truck	R22804	-	10.0	\$ 57.17	\$ 35.49	\$ 354.90	0201
CAT XQ20	25KW Genset	R22809	5.0	-	\$ 12.27	\$ 4.95	\$ 61.35	0201
CAT DCA45	45KVA Genset	R22810	5.0	-	\$ 23.20	\$ 10.88	\$ 116.00	0201
Neptune	Wheel Wash	-	5.0	-	\$ 60.69	\$ 58.17	\$ 303.45	0201
Ford F650	Service Truck	3593	-	-	\$ 42.42	\$ 35.83	\$ -	0201
Ford F650	Lube Truck	3700	1.0	-	\$ 42.06	\$ 35.49	\$ 42.06	2207
Total Equipment						\$ 4,829.56		

Materials (Description)	Vendor	Cost	Tons	Amount	WBS Coding
Transport ACM to Apex	Werdeco Trucking	\$ 23.87	0	\$ -	
Transport SW to Apex	Werdeco Trucking	\$ 10.13	0	\$ -	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	\$ 421.00	\$ 4,677.31	
		\$ -		\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
Total Materials				\$ 4,677.31	

Subcontractors	Work Performed	Cost	Hours	Amount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$ -	0201
Walker Specialty	ACM Removal, 8 Man Crew	\$ 912.18		\$ -	0201
Logistic Solutions	Tested backfill density.	\$ -		\$ -	0201
		\$ -		\$ -	
		\$ -		\$ -	
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -		\$ -	2207
Total Subcontractors				\$ -	

Per Diem / Mileage	Days	Rate	Amount	WBS Coding
Andrew Simmons	0.25	\$ 106.62	\$ 26.66	2201
Richard Whitman	1	\$ 106.62	\$ 106.62	2201



**2013 NERT Tronox Sump - Henderson
Daily Report Job # 1491501**

REPORT BY:	R. Whitman	Weather:	(temp.,wind,precip.) 80 to 90 degrees Clear & breezy.	Date:	10/12/2013	
Safety Meeting	No	Safety Meeting Topic :			Day:	Saturday
Oversite: Nita Shinn (Environ) & Kris Everett (LS)				Shift:	6:00 16:00	

Personnel on site			Equipment on Site					Activities	
Operator's Name	Hours	Position	Type	Desc	Equip #	Hours Op.	Standby	Site Operations	WBS
A. Buell		Project Director	Chevy	Pickup	3775			Management	2201
A. Simmons		Project Manager	Chevy	Pickup	3846			Health & Safety	2202
R. Whitman		Const. Manager	Chevy	Pickup	3844			Mobilization	0101
D. Johnson		Project Engineer	Chevy	Pickup	3926				
R. Lee		Safety Manager	CAT 345	Excavator	R22811			Survey	0401
J. Borth		Foreman	Trimble GCS900	GPS for Exc.	3704			Site Set-Up	0201
I. McCauley		Operator	Doosan 225	breaker				Soil Excavation	0201
R. Malone		Operator	Doosan 225	Exc/thumb	R22802			ACM Excavation	0201
K. Pittser		Operator	CAT D6T	Bulldozer	R22801			Demolition	0201
		Operator	Trimble GCS900	GPS for Dozer	3655			Transport	0201
A. Macias		Truck Driver	CAT 966K	Loader	R22828			Import Trucking	0201
E. McKinley		Truck Driver	CAT 14H	Motor Patrol	3427			Backfill	0201
		Labor	CAT 621F	Water Pull	R22800				
		Labor	10,000 Gallon	Water Tower	3369				
				Loader/Forks					
			2,000 Gallon	Water Truck	R22804				
			CAT XQ20	25KW Genset	R22809				
			CAT DCA45	45KVA Genset	R22810				
			Neptune	Wheel Wash					
I. Seymor		Field Mechanic	Ford F650	Service Truck	3593			Equipment Fuel	2207
			Ford F650	Lube Truck	3700			Demobilize	0102

Activity Desc:	
Activity Desc:	
Activity Desc:	
Activity Desc:	

JOB Deliveries			
Supplier/Subcontract	On-site?	Quantity	Description of Delivery, Materials, Service, Notes
Impact Trucking	No		Import 0 loads of general fill.
Werdeco Trucking	No		Export ACM/Ditch Soils. 0 Loads of ACM & 0 Loads of ditch soils.
Diamondback	No		Pre Topo, Layout, Record Progress & Final As-built
Walker Specialty	No		ACM Removal. 8 Man Crew
Logistic Solutions	No		Tested backfill density.
Canyon State Oil			Delivered 0 gallons of Fuel

Material Quantities											
Type II Road Mat'l	ACM	Total ACM	General Tons	Total General Tons	General Loads	Total Loads	Waste Loads	Total Lds	Off-Site Tn	TOTAL TONS	Water
0 / 0	0	324.96	0	1,015.64	0	24	0	40	0	790.50	X

Miscellaneous/Notes:

Signature: _____

Client rep: _____

2013 NERT Tronox Sump - Henderson Job # 1491501
Daily Force Account Worksheet
Estimated Costs

Description of Work Performed:		See Activity Descriptions above						
Date Work Performed:		October 12, 2013						
Labor (Employee)	Classification	Reg Hrs	OT Hrs	Reg Rate	OT Rate	Amount	WBS Coding	
A. Buell	Project Director	-	N/A	\$ 155.31	N/A	\$ -	2201	
A. Simmons	Project Manager	-	N/A	\$ 143.03	N/A	\$ -	2201	
R. Whitman	Const. Manager	-	N/A	\$ 137.06	N/A	\$ -	2201	
D. Johnson	Project Engineer	-	N/A	\$ 110.34	N/A	\$ -	2201	
R. Lee	Safety Manager	-	N/A	\$ 115.83	N/A	\$ -	2202	
J. Borth	Foreman	-		\$ 43.00	\$ 56.12	\$ -	0201	
I. McCauley	Operator	-		\$ 40.21	\$ 52.01	\$ -	0201	
R. Malone	Operator	-		\$ 40.21	\$ 52.01	\$ -	0201	
K. Pittser	Operator	-		\$ 40.21	\$ 52.01	\$ -	0201	
	Operator	-		\$ 36.04	\$ 45.85	\$ -	0201	
A. Macias	Truck Driver	-		\$ 31.87	\$ 39.70	\$ -	0201	
E. McKinley	Truck Driver	-		\$ 31.87	\$ 39.70	\$ -	0201	
	Labor	-		\$ 29.10	\$ 35.60	\$ -	0201	
	Labor	-		\$ 29.10	\$ 35.60	\$ -	0201	
		-		\$ -	\$ -	\$ -		
		-		\$ -	\$ -	\$ -		
		-		\$ -	\$ -	\$ -		
		-		\$ -	\$ -	\$ -		
		-		\$ -	\$ -	\$ -		
		-		\$ -	\$ -	\$ -		
I. Seymor	Field Mechanic	-		\$ 43.00	\$ 56.12	\$ -	2201	
		-		\$ -	\$ -	\$ -		

Total Labor \$ -

Equipment	Unit #	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding
Chevy	Pickup	3775	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3846	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3844	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3926	-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345	Excavator	R22811	-	\$ 121.29	\$ 84.46	\$ -	0201
Trimble GCS900	GPS for Exc.	3704	-	\$ 37.98	\$ 36.30	\$ -	0201
Doosan 225	breaker	-	-	\$ 201.72	\$ 170.63	\$ -	0201
Doosan 225	Exc/thumb	R22802	-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T	Bulldozer	R22801	-	\$ 85.40	\$ 54.60	\$ -	0201
Trimble GCS900	GPS for Dozer	3655	-	\$ 37.98	\$ 36.30	\$ -	0201
CAT 966K	Loader	R22828	-	\$ 126.92	\$ 85.31	\$ -	0201
CAT 14H	Motor Patrol	3427	-	\$ 69.89	\$ 41.46	\$ -	0201
CAT 621F	Water Pull	R22800	-	\$ 96.08	\$ 64.84	\$ -	0201
10,000 Gallon	Water Tower	3369	-	\$ 4.74	\$ 3.55	\$ -	0201
	Loader/Forks	-	-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon	Water Truck	R22804	-	\$ 57.17	\$ 35.49	\$ -	0201
CAT XQ20	25KW Genset	R22809	-	\$ 12.27	\$ 4.95	\$ -	0201
CAT DCA45	45KVA Genset	R22810	-	\$ 23.20	\$ 10.88	\$ -	0201
Neptune	Wheel Wash	-	-	\$ 60.69	\$ 58.17	\$ -	0201
Ford F650	Service Truck	3593	-	\$ 42.42	\$ 35.83	\$ -	0201
Ford F650	Lube Truck	3700	-	\$ 42.06	\$ 35.49	\$ -	2207

Total Equipment \$ -

Materials (Description)	Vendor	Cost	Tons	Amount	WBS Coding
Transport ACM to Apex	Werdeco Trucking	\$ 23.87	0	\$ -	
Transport SW to Apex	Werdeco Trucking	\$ 10.13	0	\$ -	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	0	\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
		\$ -		\$ -	

Total Materials \$ -

Subcontractors	Work Performed	Cost	Hours	Amount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$ -	0201
Walker Specialty	ACM Removal. 8 Man Crew	\$ 912.18		\$ -	0201
Logistic Solutions	Tested backfill density.	\$ -		\$ -	0201
		\$ -		\$ -	
		\$ -		\$ -	
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -		\$ -	2207

Total Subcontractors \$ -

Per Diems / Mileage	Days	Rate	Amount	WBS Coding
Andrew Simmons		\$ 107.00	\$ -	2201
Richard Whitman		\$ 107.00	\$ -	2201

2013 NERT Tronox Sump - Henderson Job # 1491501
Daily Force Account Worksheet Summary
Estimated Costs for Week Ending 10/13/2013

Date Work Performed:							
Labor (Employee)	Classification	Reg Hrs	OT Hrs	Reg Rate	OT Rate	Amount	WBS Coding
A. Buell	Project Director	-	N/A	\$ 155.31	N/A	\$ -	2201
A. Simmons	Project Manager	6.0	N/A	\$ 143.03	N/A	\$ 858.18	2201
R. Whitman	Superintendent	16.0	N/A	\$ 137.06	N/A	\$ 2,192.96	2201
D. Johnson	Project Engineer	4.0	N/A	\$ 110.34	N/A	\$ 441.36	2201
R. Lee	Safety Manager	16.0	N/A	\$ 115.83	N/A	\$ 1,853.28	2202
J. Borth	Foreman	-	6.0	\$ 43.00	\$ 56.12	\$ 336.72	0201
I. McCauley	Operator	20.0	20.0	\$ 40.21	\$ 52.01	\$ 1,844.40	0201
R. Malone	Operator	5.0	6.0	\$ 40.21	\$ 52.01	\$ 513.11	0201
K. Pittser	Operator	5.0	6.0	\$ 40.21	\$ 52.01	\$ 513.11	0201
A. Macias	Driver	5.0	6.0	\$ 31.87	\$ 39.70	\$ 397.55	0201
E. McKinley	Driver	20.0	20.0	\$ 31.87	\$ 39.70	\$ 1,431.40	0201
	Laborer	-	-	\$ 29.10	\$ 35.60	\$ -	0201
	Laborer	-	-	\$ 29.10	\$ 35.60	\$ -	0201
I. Seymor	Field Mechanic	1.0	1.0	\$ 43.00	\$ 56.12	\$ 99.12	2201
		-	-	\$ -	\$ -	\$ -	
Total Labor						\$ 10,481.19	

Equipment	Unit #	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding
Chevy Pickup	3775	16.0	-	\$ 9.54	\$ 5.09	\$ 152.64	2201
Chevy Pickup	3846	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy Pickup	3844	16.0	-	\$ 9.54	\$ 5.09	\$ 152.64	2201
Chevy Pickup	3926	-	-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345 Excavator	R22811	-	50.0	\$ 121.29	\$ 84.46	\$ 4,223.00	0201
Trimble GCS900 for Excavator	3704	-	50.0	\$ 37.98	\$ 36.30	\$ 1,815.00	0201
Doosan 210 with Breaker		-	-	\$ 201.72	\$ 170.63	\$ -	0201
Doosan 210 with Thumb		-	-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T Bulldozer	R22801	11.0	4.0	\$ 85.40	\$ 54.60	\$ 1,157.80	0201
Trimble GCS900 for Bulldozer	3655	11.0	4.0	\$ 37.98	\$ 36.30	\$ 562.98	0201
CAT 966K Front-end Loader	R22828	11.0	4.0	\$ 126.92	\$ 85.31	\$ 1,737.36	0201
CAT 14H Motor Patrol	3427	11.0	-	\$ 69.89	\$ 41.46	\$ 768.79	0201
CAT 621F Water Pull	R22800	11.0	10.0	\$ 96.08	\$ 64.84	\$ 1,705.28	0201
10,000 Gallon Water Tower	3369	10.0	15.0	\$ 4.74	\$ 3.55	\$ 100.65	0201
2,000 Gallon Water Truck	R22804	-	50.0	\$ 57.17	\$ 35.49	\$ 1,774.50	0201
CAT XQ20 Generator	R22809	10.0	15.0	\$ 12.27	\$ 4.95	\$ 196.95	0201
CAT DCA45 Generator	R22810	10.0	15.0	\$ 23.20	\$ 10.88	\$ 395.20	0201
Neptune Wheel Wash		10.0	15.0	\$ 60.69	\$ 58.17	\$ 1,479.45	0201
Ford F650 Service Truck	3593	-	-	\$ 42.42	\$ 35.83	\$ -	2201
Ford F650 Lube Truck	3700	2.0	-	\$ 42.06	\$ 35.49	\$ 84.12	2201
Total Equipment						\$ 16,306.36	

Subcontractors	Work Performed	Cost	Hours	Amount	WBS Coding
Walker Specialty 8 Man Crew	ACM Removal	\$ 912.18	-	\$ -	0201
Diamondback	Surveyor	\$ -	-	\$ -	0401
Geotek	Density Testing	\$ -	-	\$ -	0201
Total Subcontractors				\$ -	

Materials (Description)	Vendor	Cost	Ton	Amount	WBS Coding
Transport ACM to Apex	Werco Trucking	\$ 23.87	-	\$ -	0201
Transport SW to Apex	Werco Trucking	\$ 10.13	-	\$ -	0201
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	1,016.0	\$ 11,287.76	0201
Demob Doosan w/ breaker	Neff Rental	\$ 426.67	1	\$ 426.67	0102
Total Materials				\$ 11,714.43	

Per Diems / Mileage	Days	Rate	Amount	WBS Coding
Andrew Simmons	0.75	\$ 106.62	\$ 79.97	2201
Richard Whitman	2.0	\$ 106.62	\$ 213.24	2201
Dennis Johnson	0.5	\$ 106.62	\$ 53.31	2201
Reggie Lee	2.0	\$ 106.62	\$ 213.24	2201
John Borth	0.5	\$ 94.77	\$ 47.39	2201
Russ Malone	1.0	\$ 94.77	\$ 94.77	2201
Kevin Pittser	1.0	\$ 94.77	\$ 94.77	2201
Ivan Seymor	-	\$ 94.77	\$ -	2201
Ike McCauley	4.0	\$ 94.77	\$ 379.08	2201
Total per diems				\$ 1,175.76

Weekly Force Account Total **\$ 39,677.74**



**2013 NERT Tronox Sump - Henderson
Daily Report Job # 1491501**

REPORT BY:	R. Whitman	Weather:	(temp.,wind,precip.) 80 to 90 degrees Clear & calm.	Date:	10/14/2013	
Safety Meeting	Yes	Safety Meeting Topic : Observations & Planned Activities.			Day:	Monday
Over-site: Nita Shinn (Environ) & Kris Everett (LS)					Shift:	6:00 16:00

Personel on site			Equipment on Site					Activities		
Operator's Name	Hours	Position	Type	Desc	Equip #	Hours Op.	Standby	Site Operations		WBS
A. Buell		Project Director	Chevy	Pickup	3775			Management	X	2201
A. Simmons	2	Project Manager	Chevy	Pickup	3846			Health & Safety	X	2202
R. Whitman		Const. Manager	Chevy	Pickup	3844			Mobilization		0101
D. Johnson	2	Project Engineer	Chevy	Pickup	3926					
R. Lee	8	Safety Manager	CAT 345	Excavator	R22811			Survey		0401
J. Borth	8	Foreman	Trimble GCS900	GPS for Exc.	3704			Site Set-Up		0201
I. McCauley		Operator	Doosan 225	breaker				Soil Excavation		0201
R. Malone	5	Operator	Doosan 225	Exc/thumb	R22802			ACM Excavation		0201
K. Pittser	5	Operator	CAT D6T	Bulldozer	R22801	5		Demolition		0201
		Operator	Trimble GCS900	GPS for Dozer	3655	5		Transport		0201
A. Macias	5	Truck Driver	CAT 966K	Loader	R22828	5		Import Trucking		0201
E. McKinley	5	Truck Driver	CAT 14H	Motor Patrol	3427	5		Backfill		0201
		Labor	CAT 621F	Water Pull	R22800	5				
		Labor	10,000 Gallon	Water Tower	3369	5				
				Loader/Forks						
			2,000 Gallon	Water Truck	R22804					
			CAT XQ20	25KW Genset	R22809	5				
			CAT DCA45	45KVA Genset	R22810	5				
			Neptune	Wheel Wash		5				
I. Seymour	1	Field Mechanic	Ford F650	Service Truck	3593			Equipment Fuel		2207
			Ford F650	Lube Truck	3700	1		Demobilize		0102

Activity Desc: **Finished import of material - dumped on the timet side, conditioned and placed. Wheel rolled with the loader for compaction. Compaction testing performed by Environ subcontractor.**

Activity Desc: **2000 gallon water truck and 345 excavator & GPS called off rent late Friday**

Activity Desc: **PM performed walk-down with Nita Shinn - only work left to be completed is the road capping with Type II road base material and spray the fixative**

Activity Desc:

JOB Deliveries											
Supplier/Subcontracts	On-site?	Quantity	Description of Delivery, Materials, Service, Notes								
Impact Trucking	Yes		Import 9 loads of general fill.								
Werdeco Trucking	No		Export ACM/Ditch Soils. 0 Loads of ACM & 0 Loads of ditch soils.								
Diamondback			Pre Topo, Layout, Record Progress & Final As-built								
Walker Specialty	No		ACM Removal. 8 Man Crew								
Geotek			Tested backfill density.								
Canyon State Oil			Delivered 0 gallons of Fuel								
Material Quantities											
Type II Road Mat'l	ACM	Total ACM	General Tons	Total General Tons	General Loads	Total Loads	Waste Loads	Total Lds	Off-Site Tn	TOTAL TONS	Water
0 / 0	0	325.00	382.00	1,398.00	8	32	0	40	0	791.00	0
Miscellaneous/Notes:											

2013 NERT Tronox Sump - Henderson Job # 1491501
Daily Force Account Worksheet
Estimated Costs

Description of Work Performed: See Activity Descriptions above

Date Work Performed: October 14, 2013

Labor (Employee)	Classification	Reg Hrs	OT Hrs	Reg Rate	OT Rate	Amount	WBS Coding
A. Buell	Project Director	-	N/A	\$ 155.31	N/A	\$ -	2201
A. Simmons	Project Manager	2.0	N/A	\$ 143.03	N/A	\$ 286.06	2201
R. Whitman	Const. Manager	-	N/A	\$ 137.06	N/A	\$ -	2201
D. Johnson	Project Engineer	2.0	N/A	\$ 110.34	N/A	\$ 220.68	2201
R. Lee	Safety Manager	8.0	N/A	\$ 115.83	N/A	\$ 926.64	2202
J. Borth	Foreman	8.0	-	\$ 43.00	\$ 56.12	\$ 344.00	0201
I. McCauley	Operator	-	-	\$ 40.21	\$ 52.01	\$ -	0201
R. Malone	Operator	5.0	5.0	\$ 40.21	\$ 52.01	\$ 201.05	0201
K. Pittser	Operator	5.0	5.0	\$ 40.21	\$ 52.01	\$ 461.10	0201
	Operator	-	-	\$ 36.04	\$ 45.85	\$ -	0201
A. Macias	Truck Driver	-	5.0	\$ 31.87	\$ 39.70	\$ 198.50	0201
E. McKinley	Truck Driver	-	5.0	\$ 31.87	\$ 39.70	\$ 198.50	0201
	Labor	-	-	\$ 29.10	\$ 35.60	\$ -	0201
	Labor	-	-	\$ 29.10	\$ 35.60	\$ -	0201
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
I. Seymor	Field Mechanic	-	1.0	\$ 43.00	\$ 56.12	\$ 56.12	2201
		-	-	\$ -	\$ -	\$ -	
Total Labor						\$ 2,892.65	

Equipment	Unit #	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding
Chevy Pickup	3775	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy Pickup	3846	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy Pickup	3844	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy Pickup	3926	-	-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345 Excavator	R22811	-	-	\$ 121.29	\$ 84.46	\$ -	0201
Trimble GCS900 GPS for Exc.	3704	-	-	\$ 37.98	\$ 36.30	\$ -	0201
Doosan 225 breaker		-	-	\$ 201.72	\$ 170.63	\$ -	0201
Doosan 225 Exc/thumb	R22802	-	-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T Bulldozer	R22801	5.0	-	\$ 85.40	\$ 54.60	\$ 427.00	0201
Trimble GCS900 GPS for Dozer	3655	5.0	-	\$ 37.98	\$ 36.30	\$ 189.90	0201
CAT 966K Loader	R22828	5.0	-	\$ 126.92	\$ 85.31	\$ 634.60	0201
CAT 14H Motor Patrol	3427	5.0	-	\$ 69.89	\$ 41.46	\$ 349.45	0201
CAT 621F Water Pull	R22800	5.0	-	\$ 96.08	\$ 64.84	\$ 480.40	0201
10,000 Gallon Water Tower	3369	5.0	-	\$ 4.74	\$ 3.55	\$ 23.70	0201
Loader/Forks		-	-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon Water Truck	R22804	-	-	\$ 57.17	\$ 35.49	\$ -	0201
CAT XQ20 25KW Genset	R22809	5.0	-	\$ 12.27	\$ 4.95	\$ 61.35	0201
CAT DCA45 45KVA Genset	R22810	5.0	-	\$ 23.20	\$ 10.88	\$ 116.00	0201
Neptune Wheel Wash		5.0	-	\$ 60.69	\$ 58.17	\$ 303.45	0201
Ford F650 Service Truck	3593	-	-	\$ 42.42	\$ 35.83	\$ -	0201
Ford F650 Lube Truck	3700	1.0	-	\$ 42.06	\$ 35.49	\$ 42.06	2207
Total Equipment						\$ 2,627.91	

Materials (Description)	Vendor	Cost	Tons	Amount	WBS Coding
Transport ACM to Apex	Werco Trucking	\$ 23.87	0	\$ -	
Transport SW to Apex	Werco Trucking	\$ 10.13	0	\$ -	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	\$ 382.00	\$ 4,244.02	
		\$ -		\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
Total Materials				\$ 4,244.02	

Subcontractors	Work Performed	Cost	Hours	Amount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$ -	0201
Walker Specialty	ACM Removal. 8 Man Crew	\$ 912.18		\$ -	0201
Geotek	Tested backfill density.	\$ -		\$ -	0201
		\$ -		\$ -	
		\$ -		\$ -	
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -		\$ -	2207
Total Subcontractors				\$ -	

Per Diems / Mileage	Days	Rate	Amount	WBS Coding
Andrew Simmons	0.25	\$ 106.62	\$ 26.66	2201
Richard Whitman		\$ 106.62	\$ -	2201
Dennis Johnson	0.25	\$ 106.62	\$ 26.66	2201
Reggie Lee	1	\$ 106.62	\$ 106.62	2201
John Borth	1	\$ 94.77	\$ 94.77	2201
Russ Malone	0.5	\$ 94.77	\$ 47.39	2201
Kevin Pittser	0.5	\$ 94.77	\$ 47.39	2201
Ivan Seymor		\$ 94.77	\$ -	2201
Ike McCauley		\$ 94.77	\$ -	2201
Total per diems			\$ 349.47	

\$ 10,114.05 Daily Force Account Total



2013 NERT Tronox Sump - Henderson

Daily Report Job # 1491501

REPORT BY:	R. Whitman	Weather:	(temp.,wind,precip.) 80 to 90 degrees Clear & calm.	Date:	10/15/2013	
Safety Meeting	Yes	Safety Meeting Topic : Observations & Planned Activities.			Day:	Tuesday
Oversite: Nita Shinn (Environ)				Shift:	6:00 16:00	

Personel on site			Equipment on Site				Activities			
Operator's Name	Hours	Position	Type	Desc	Equip #	Hours Op.	Standby	Site Operations	WBS	
A. Buell		Project Director	Chevy	Pickup	3775			Management	X	2201
A. Simmons	1	Project Manager	Chevy	Pickup	3846			Health & Safety	X	2202
R. Whitman		Const. Manager	Chevy	Pickup	3844			Mobilization		0101
D. Johnson	8	Project Engineer	Chevy	Pickup	3926					
R. Lee	1	Safety Manager	CAT 345	Excavator	R22811			Survey		0401
J. Borth		Foreman	Trimble GCS900	GPS for Exc.	3704			Site Set-Up		0201
I. McCauley		Operator	Doosan 225	breaker				Soil Excavation		0201
R. Malone		Operator	Doosan 225	Exc/thumb	R22802			ACM Excavation		0201
K. Pittser	2	Operator	CAT D6T	Bulldozer	R22801			Demolition		0201
		Operator	Trimble GCS900	GPS for Dozer	3655			Transport		0201
A. Macias	2	Truck Driver	CAT 966K	Loader	R22828			Import Trucking		0201
E. McKinley		Truck Driver	CAT 14H	Motor Patrol	3427	2		Backfill	X	0201
		Labor	CAT 621F	Water Pull	R22800	2				
		Labor	10,000 Gallon	Water Tower	3369	2				
				Loader/Forks						
			2,000 Gallon	Water Truck	R22804					
			CAT XQ20	25KW Genset	R22809					
			CAT DCA45	45KVA Genset	R22810	2				
			Neptune	Wheel Wash		2				
I. Seymour		Field Mechanic	Ford F650	Service Truck	3593			Equipment Fuel		2207
			Ford F650	Lube Truck	3700			Demobilize		0102

Activity Desc: Imported and installed 1 load of Type II road base to the western perimeter road (38 tons)
Project Engineer performed final Topo survey

Activity Desc: no further activities today

Activity Desc: no further activities today

Activity Desc: no further activities today

JOB Deliveries

Supplier/Subcontract	On-site?	Quantity	Description of Delivery, Materials, Service, Notes
Impact Trucking			Import 0 loads of general fill.
WerdcO Trucking	No		Export ACM/Ditch Soils. 0 Loads of ACM & 0 Loads of ditch soils.
Diamondback			Pre Topo, Layout, Record Progress & Final As-built
Walker Specialty	No		ACM Removal. 8 Man Crew
Geotek			Tested backfill density.
Impact Trucking	Yes	38	Import 1 load of Type II Road Base to recap the western boundary road
Canyon State Oil			Delivered 0 gallons of Fuel

Material Quantities

Type II Road Mat'l	ACM	Total ACM	General Tons	Total General Tons	General Loads	Total Loads	Waste Loads	Total Lds	Off-Site Tn	TOTAL TONS	Water
1 L / 38 ton	0	325.00	0	1,398.00	0	32	0	40	0	791.00	0

Miscellaneous/Notes:

2013 NERT Tronox Sump - Henderson Job # 1491501
Daily Force Account Worksheet
Estimated Costs

Description of Work Performed: See Activity Descriptions above

Date Work Performed: October 15, 2013

Labor (Employee)	Classification	Reg Hrs	OT Hrs	Reg Rate	OT Rate	Amount	WBS Coding
A. Buell	Project Director	-	N/A	\$ 155.31	N/A	\$ -	2201
A. Simmons	Project Manager	1.0	N/A	\$ 143.03	N/A	\$ 143.03	2201
R. Whitman	Const. Manager	-	N/A	\$ 137.06	N/A	\$ -	2201
D. Johnson	Project Engineer	8.0	N/A	\$ 110.34	N/A	\$ 882.72	2201
R. Lee	Safety Manager	1.0	N/A	\$ 115.83	N/A	\$ 115.83	2202
J. Borth	Foreman	-	-	\$ 43.00	\$ 56.12	\$ -	0201
I. McCauley	Operator	-	-	\$ 40.21	\$ 52.01	\$ -	0201
R. Malone	Operator	-	-	\$ 40.21	\$ 52.01	\$ -	0201
K. Pittser	Operator	2.0	2.0	\$ 40.21	\$ 52.01	\$ 184.44	0201
	Operator	-	-	\$ 36.04	\$ 45.85	\$ -	0201
A. Macias	Truck Driver	-	2.0	\$ 31.87	\$ 39.70	\$ 79.40	0201
E. McKinley	Truck Driver	-	-	\$ 31.87	\$ 39.70	\$ -	0201
	Labor	-	-	\$ 29.10	\$ 35.60	\$ -	0201
	Labor	-	-	\$ 29.10	\$ 35.60	\$ -	0201
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
I. Seymor	Field Mechanic	-	-	\$ 43.00	\$ 56.12	\$ -	2201
		-	-	\$ -	\$ -	\$ -	
Total Labor						\$ 1,405.42	

Equipment	Unit #	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding
Chevy	Pickup	3775	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3846	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3844	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3926	-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345	Excavator	R22811	-	\$ 121.29	\$ 84.46	\$ -	0201
Trimble GCS900	GPS for Exc.	3704	-	\$ 37.98	\$ 36.30	\$ -	0201
Doosan 225	breaker	-	-	\$ 201.72	\$ 170.63	\$ -	0201
Doosan 225	Exc/thumb	R22802	-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T	Bulldozer	R22801	-	\$ 85.40	\$ 54.60	\$ -	0201
Trimble GCS900	GPS for Dozer	3655	-	\$ 37.98	\$ 36.30	\$ -	0201
CAT 966K	Loader	R22828	-	\$ 126.92	\$ 85.31	\$ -	0201
CAT 14H	Motor Patrol	3427	2.0	\$ 69.89	\$ 41.46	\$ 139.78	0201
CAT 621F	Water Pull	R22800	2.0	\$ 96.08	\$ 64.84	\$ 192.16	0201
10,000 Gallon	Water Tower	3369	2.0	\$ 4.74	\$ 3.55	\$ 9.48	0201
	Loader/Forks	-	-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon	Water Truck	R22804	-	\$ 57.17	\$ 35.49	\$ -	0201
CAT XQ20	25KW Genset	R22809	-	\$ 12.27	\$ 4.95	\$ -	0201
CAT DCA45	45KVA Genset	R22810	2.0	\$ 23.20	\$ 10.88	\$ 46.40	0201
Neptune	Wheel Wash	-	2.0	\$ 60.69	\$ 58.17	\$ 121.38	0201
Ford F650	Service Truck	3593	-	\$ 42.42	\$ 35.83	\$ -	0201
Ford F650	Lube Truck	3700	-	\$ 42.06	\$ 35.49	\$ -	2207
Total Equipment						\$ 509.20	

Materials (Description)	Vendor	Cost	Tons	Amount	WBS Coding
Transport ACM to Apex	Werdeco Trucking	\$ 23.87	0	\$ -	
Transport SW to Apex	Werdeco Trucking	\$ 10.13	0	\$ -	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	0	\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
Total Materials				\$ -	

Subcontractors	Work Performed	Cost	Hours	Amount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$ -	0201
Walker Specialty	ACM Removal. 8 Man Crew	\$ 912.18		\$ -	0201
Geotek	Tested backfill density.	\$ -		\$ -	0201
Impact Trucking	Import 1 load of Type II Road Base to recap the western bound	\$ -		\$ -	
		\$ -		\$ -	
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -		\$ -	2207
Total Subcontractors				\$ -	

Per Diems / Mileage	Days	Rate	Amount	WBS Coding
Andrew Simmons	0.25	\$ 107.00	\$ 26.75	2201
Richard Whitman		\$ 107.00	\$ -	2201
Dennis Johnson	1	\$ 107.00	\$ 107.00	2201
Reggie Lee	0.25	\$ 107.00	\$ 26.75	2201
John Borth		\$ 95.00	\$ -	2201
Russ Malone		\$ 95.00	\$ -	2201
Kevin Pittser	0.25	\$ 95.00	\$ 23.75	2201
Ivan Seymor		\$ 95.00	\$ -	2201
Ike McCauley		\$ 95.00	\$ -	2201
Total per diems			\$ 184.25	

\$ 2,098.87 Daily Force Account Total



**2013 NERT Tronox Sump - Henderson
Daily Report Job # 1491501**

REPORT BY:	R. Whitman	Weather:	(temp.,wind,precip.) 80 to 90 degrees Clear & breezy.	Date:	10/16/2013	
Safety Meeting	Yes	Safety Meeting Topic : Observations & Planned Activities.			Day:	Wednesday
Oversite: Nita Shinn (Environ)					Shift:	6:00 16:00

Personnel on site			Equipment on Site					Activities		
Operator's Name	Hours	Position	Type	Desc	Equip #	Hours Op.	Standby	Site Operations	WBS	
A. Buell		Project Director	Chevy	Pickup	3775			Management	2201	
A. Simmons		Project Manager	Chevy	Pickup	3846			Health & Safety	2202	
R. Whitman		Const. Manager	Chevy	Pickup	3844			Mobilization	0101	
D. Johnson		Project Engineer	Chevy	Pickup	3926					
R. Lee		Safety Manager	CAT 345	Excavator	R22811			Survey	0401	
J. Borth		Foreman	Trimble GCS900	GPS for Exc.	3704			Site Set-Up	0201	
I. McCauley		Operator	Doosan 225	breaker				Soil Excavation	0201	
R. Malone		Operator	Doosan 225	Exc/thumb	R22802			ACM Excavation	0201	
K. Pittser		Operator	CAT D6T	Bulldozer	R22801			Demolition	0201	
		Operator	Trimble GCS900	GPS for Dozer	3655			Transport	0201	
A. Macias		Truck Driver	CAT 966K	Loader	R22828			Import Trucking	0201	
E. McKinley		Truck Driver	CAT 14H	Motor Patrol	3427			Backfill	0201	
		Labor	CAT 621F	Water Pull	R22800					
		Labor	10,000 Gallon	Water Tower	3369					
				Loader/Forks						
			2,000 Gallon	Water Truck	R22804					
			CAT XQ20	25KW Genset	R22809					
			CAT DCA45	45KVA Genset	R22810					
			Neptune	Wheel Wash						
I. Seymor		Field Mechanic	Ford F650	Service Truck	3593			Equipment Fuel	2207	
			Ford F650	Lube Truck	3700			Demobilize	0102	

Activity Desc: no activities - demobilizing from Timet job only

Activity Desc: no activities - demobilizing from Timet job only

Activity Desc: no activities - demobilizing from Timet job only

Activity Desc:

JOB Deliveries

Supplier/Subcontract	On-site?	Quantity	Description of Delivery, Materials, Service, Notes
Impact Trucking	No		Import 0 loads of general fill.
Werdeco Trucking	No		Export ACM/Ditch Soils. 0 Loads of ACM & 0 Loads of ditch soils.
Diamondback			Pre Topo, Layout, Record Progress & Final As-built
Walker Specialty	No		ACM Removal. 8 Man Crew
Geotek			Tested backfill density.
Canyon State Oil			Delivered 0 gallons of Fuel

Material Quantities											
Type II Road Mat'l	ACM	Total ACM	General Tons	Total General Tons	General Loads	Total Loads	Waste Loads	Total Lds	Off-Site Tn	TOTAL TONS	Water
0 / 0	0	325.00		1,398.00		32	0	40	0	791.00	0

Miscellaneous/Notes:

Signature: _____

Client rep: _____

2013 NERT Tronox Sump - Henderson Job # 1491501
Daily Force Account Worksheet
Estimated Costs

Description of Work Performed:		See Activity Descriptions above					
Date Work Performed:		October 16, 2013					
Labor (Employee)	Classification	Reg Hrs	OT Hrs	Reg Rate	OT Rate	Amount	WBS Coding
A. Buell	Project Director	-	N/A	\$ 155.31	N/A	\$ -	2201
A. Simmons	Project Manager	-	N/A	\$ 143.03	N/A	\$ -	2201
R. Whitman	Const. Manager	-	N/A	\$ 137.06	N/A	\$ -	2201
D. Johnson	Project Engineer	-	N/A	\$ 110.34	N/A	\$ -	2201
R. Lee	Safety Manager	-	N/A	\$ 115.83	N/A	\$ -	2202
J. Borth	Foreman	-		\$ 43.00	\$ 56.12	\$ -	0201
I. McCauley	Operator	-		\$ 40.21	\$ 52.01	\$ -	0201
R. Malone	Operator	-		\$ 40.21	\$ 52.01	\$ -	0201
K. Pittser	Operator	-		\$ 40.21	\$ 52.01	\$ -	0201
	Operator	-		\$ 36.04	\$ 45.85	\$ -	0201
A. Macias	Truck Driver	-		\$ 31.87	\$ 39.70	\$ -	0201
E. McKinley	Truck Driver	-		\$ 31.87	\$ 39.70	\$ -	0201
	Labor	-		\$ 29.10	\$ 35.60	\$ -	0201
	Labor	-		\$ 29.10	\$ 35.60	\$ -	0201
		-		\$ -	\$ -	\$ -	
		-		\$ -	\$ -	\$ -	
		-		\$ -	\$ -	\$ -	
		-		\$ -	\$ -	\$ -	
		-		\$ -	\$ -	\$ -	
		-		\$ -	\$ -	\$ -	
		-		\$ -	\$ -	\$ -	
I. Seymor	Field Mechanic	-		\$ 43.00	\$ 56.12	\$ -	2201
		-		\$ -	\$ -	\$ -	

Total Labor \$ -

Equipment	Unit #	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding
Chevy Pickup	3775	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy Pickup	3846	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy Pickup	3844	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy Pickup	3926	-	-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345 Excavator	R22811	-	-	\$ 121.29	\$ 84.46	\$ -	0201
Trimble GCS900 GPS for Exc.	3704	-	-	\$ 37.98	\$ 36.30	\$ -	0201
Doosan 225 breaker	-	-	-	\$ 201.72	\$ 170.63	\$ -	0201
Doosan 225 Exc/thumb	R22802	-	-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T Bulldozer	R22801	-	-	\$ 85.40	\$ 54.60	\$ -	0201
Trimble GCS900 GPS for Dozer	3655	-	-	\$ 37.98	\$ 36.30	\$ -	0201
CAT 966K Loader	R22828	-	-	\$ 126.92	\$ 85.31	\$ -	0201
CAT 14H Motor Patrol	3427	-	-	\$ 69.89	\$ 41.46	\$ -	0201
CAT 621F Water Pull	R22800	-	-	\$ 96.08	\$ 64.84	\$ -	0201
10,000 Gallon Water Tower	3369	-	-	\$ 4.74	\$ 3.55	\$ -	0201
	Loader/Forks	-	-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon Water Truck	R22804	-	-	\$ 57.17	\$ 35.49	\$ -	0201
CAT XQ20 25KW Genset	R22809	-	-	\$ 12.27	\$ 4.95	\$ -	0201
CAT DCA45 45KVA Genset	R22810	-	-	\$ 23.20	\$ 10.88	\$ -	0201
Neptune Wheel Wash	-	-	-	\$ 60.69	\$ 58.17	\$ -	0201
Ford F650 Service Truck	3593	-	-	\$ 42.42	\$ 35.83	\$ -	0201
Ford F650 Lube Truck	3700	-	-	\$ 42.06	\$ 35.49	\$ -	2207

Total Equipment \$ -

Materials (Description)	Vendor	Cost	Tons	Amount	WBS Coding
Transport ACM to Apex	Werdeco Trucking	\$ 23.87	0	\$ -	
Transport SW to Apex	Werdeco Trucking	\$ 10.13	0	\$ -	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	\$ -	\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
		\$ -		\$ -	

Total Materials \$ -

Subcontractors	Work Performed	Cost	Hours	Amount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$ -	0201
Walker Specialty	ACM Removal. 8 Man Crew	\$ 912.18		\$ -	0201
Geotek	Tested backfill density.	\$ -		\$ -	0201
		\$ -		\$ -	
		\$ -		\$ -	
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -		\$ -	2207

Total Subcontractors \$ -

Per Diems / Mileage	Days	Rate	Amount	WBS Coding
Andrew Simmons		\$ 107.00	\$ -	2201
Richard Whitman		\$ 107.00	\$ -	2201
Dennis Johnson		\$ 107.00	\$ -	2201
Reggie Lee		\$ 107.00	\$ -	2201
John Borth		\$ 95.00	\$ -	2201
Russ Malone		\$ 95.00	\$ -	2201
Kevin Pittser		\$ 95.00	\$ -	2201
Ivan Seymor		\$ 95.00	\$ -	2201
Ike McCauley		\$ 95.00	\$ -	2201

Total per diems \$ -

\$ - Daily Force Account Total



**2013 NERT Tronox Sump - Henderson
Daily Report Job # 1491501**

REPORT BY:	R. Whitman	Weather:	(temp.,wind,precip.) 80 to 90 degrees Clear & 15 to 20 mph winds.	Date:	10/17/2013	
Safety Meeting	Yes	Safety Meeting Topic : Observations & Planned Activities.			Day:	Thursday
Oversite: Nita Shinn (Environ)					Shift:	6:00 16:00

Personnel on site			Equipment on Site					Activities		
Operator's Name	Hours	Position	Type	Desc	Equip #	Hours Op.	Standby	Site Operations	WBS	
A. Buell		Project Director	Chevy	Pickup	3775			Management	X	2201
A. Simmons	2	Project Manager	Chevy	Pickup	3846			Health & Safety	X	2202
R. Whitman		Const. Manager	Chevy	Pickup	3844			Mobilization		0101
D. Johnson		Project Engineer	Chevy	Pickup	3926					
R. Lee	2	Safety Manager	CAT 345	Excavator	R22811			Survey		0401
J. Borth	2	Foreman	Trimble GCS900	GPS for Exc.	3704			Site Set-Up		0201
I. McCauley		Operator	Doosan 225	breaker				Soil Excavation		0201
R. Malone		Operator	Doosan 225	Exc/thumb	R22802			ACM Excavation		0201
K. Pittser		Operator	CAT D6T	Bulldozer	R22801			Demolition		0201
		Operator	Trimble GCS900	GPS for Dozer	3655			Transport		0201
A. Macias	2	Truck Driver	CAT 966K	Loader	R22828			Import Trucking		0201
E. McKinley		Truck Driver	CAT 14H	Motor Patrol	3427			Backfill		0201
		Labor	CAT 621F	Water Pull	R22800	2				
		Labor	10,000 Gallon	Water Tower	3369	2				
				Loader/Forks						
			2,000 Gallon	Water Truck	R22804					
			CAT XQ20	25KW Genset	R22809					
			CAT DCA45	45KVA Genset	R22810					
			Neptune	Wheel Wash						
I. Seymor		Field Mechanic	Ford F650	Service Truck	3593			Equipment Fuel		2207
			Ford F650	Lube Truck	3700			Demobilize		0102

Activity Desc:	applied dust palliative over the NERT area for final restoration - no further activities required beyond today
Activity Desc:	
Activity Desc:	
Activity Desc:	

JOB Deliveries			
Supplier/Subcontract	On-site?	Quantity	Description of Delivery, Materials, Service, Notes
Impact Trucking	No		Import 0 loads of general fill.
Werdeco Trucking	No		Export ACM/Ditch Soils. 0 Loads of ACM & 0 Loads of ditch soils.
Diamondback			Pre Topo, Layout, Record Progress & Final As-built
Walker Specialty	No		ACM Removal. 8 Man Crew
Geotek			Tested backfill density.
Canyon State Oil			Delivered 0 gallons of Fuel

Material Quantities											
Type II Road Mat'l	ACM	Total ACM	General Tons	Total General Tons	General Loads	Total Loads	Waste Loads	Total Lds	Off-Site Tn	TOTAL TONS	Water
0 / 0	0	325.00	0	1,398.00	0	32	0	40	0	791.00	0

Miscellaneous/Notes:

2013 NERT Tronox Sump - Henderson Job # 1491501
Daily Force Account Worksheet
Estimated Costs

Description of Work Performed: See Activity Descriptions above							
Date Work Performed: October 17, 2013							
Labor (Employee)	Classification	Reg Hrs	OT Hrs	Reg Rate	OT Rate	Amount	WBS Coding
A. Buell	Project Director	-	N/A	\$ 155.31	N/A	\$ -	2201
A. Simmons	Project Manager	2.0	N/A	\$ 143.03	N/A	\$ 286.06	2201
R. Whitman	Const. Manager	-	N/A	\$ 137.06	N/A	\$ -	2201
D. Johnson	Project Engineer	-	N/A	\$ 110.34	N/A	\$ -	2201
R. Lee	Safety Manager	2.0	N/A	\$ 115.83	N/A	\$ 231.66	2202
J. Borth	Foreman	2.0		\$ 43.00	\$ 56.12	\$ 86.00	0201
I. McCauley	Operator	-		\$ 40.21	\$ 52.01	\$ -	0201
R. Malone	Operator	-		\$ 40.21	\$ 52.01	\$ -	0201
K. Pittser	Operator	-		\$ 40.21	\$ 52.01	\$ -	0201
	Operator	-		\$ 36.04	\$ 45.85	\$ -	0201
A. Macias	Truck Driver	2.0		\$ 31.87	\$ 39.70	\$ 63.74	0201
E. McKinley	Truck Driver	-		\$ 31.87	\$ 39.70	\$ -	0201
	Labor	-		\$ 29.10	\$ 35.60	\$ -	0201
	Labor	-		\$ 29.10	\$ 35.60	\$ -	0201
		-		\$ -	\$ -	\$ -	
		-		\$ -	\$ -	\$ -	
		-		\$ -	\$ -	\$ -	
		-		\$ -	\$ -	\$ -	
		-		\$ -	\$ -	\$ -	
		-		\$ -	\$ -	\$ -	
I. Seymor	Field Mechanic	-		\$ 43.00	\$ 56.12	\$ -	2201
		-		\$ -	\$ -	\$ -	
Total Labor						\$ 667.46	

Equipment	Unit #	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding
Chevy	Pickup	3775	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3846	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3844	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3926	-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345	Excavator	R22811	-	\$ 121.29	\$ 84.46	\$ -	0201
Trimble GCS900	GPS for Exc.	3704	-	\$ 37.98	\$ 36.30	\$ -	0201
Doosan 225	breaker		-	\$ 201.72	\$ 170.63	\$ -	0201
Doosan 225	Exc/thumb	R22802	-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T	Bulldozer	R22801	-	\$ 85.40	\$ 54.60	\$ -	0201
Trimble GCS900	GPS for Dozer	3655	-	\$ 37.98	\$ 36.30	\$ -	0201
CAT 966K	Loader	R22828	-	\$ 126.92	\$ 85.31	\$ -	0201
CAT 14H	Motor Patrol	3427	-	\$ 69.89	\$ 41.46	\$ -	0201
CAT 621F	Water Pull	R22800	2.0	\$ 96.08	\$ 64.84	\$ 192.16	0201
10,000 Gallon	Water Tower	3369	2.0	\$ 4.74	\$ 3.55	\$ 9.48	0201
	Loader/Forks		-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon	Water Truck	R22804	-	\$ 57.17	\$ 35.49	\$ -	0201
CAT XQ20	25KW Genset	R22809	-	\$ 12.27	\$ 4.95	\$ -	0201
CAT DCA45	45KVA Genset	R22810	-	\$ 23.20	\$ 10.88	\$ -	0201
Neptune	Wheel Wash		-	\$ 60.69	\$ 58.17	\$ -	0201
Ford F650	Service Truck	3593	-	\$ 42.42	\$ 35.83	\$ -	0201
Ford F650	Lube Truck	3700	-	\$ 42.06	\$ 35.49	\$ -	2207
Total Equipment						\$ 201.64	

Materials (Description)	Vendor	Cost	Tons	Amount	WBS Coding
Transport ACM to Apex	Werdeco Trucking	\$ 23.87	0	\$ -	
Transport SW to Apex	Werdeco Trucking	\$ 10.13	0	\$ -	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	0	\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
Total Materials				\$ -	

Subcontractors	Work Performed	Cost	Hours	Amount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$ -	0201
Walker Specialty	ACM Removal, 8 Man Crew	\$ 912.18		\$ -	0201
Geotek	Tested backfill density.	\$ -		\$ -	0201
		\$ -		\$ -	
		\$ -		\$ -	
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -		\$ -	2207
Total Subcontractors				\$ -	

Per Diems / Mileage	Days	Rate	Amount	WBS Coding
Andrew Simmons	0.25	\$ 106.62	\$ 26.66	2201
Richard Whitman		\$ 106.62	\$ -	2201



**2013 NERT Tronox Sump - Henderson
Daily Report Job # 1491501**

REPORT BY:	R. Whitman	Weather:	(temp.,wind,precip.) 70 to 80 degrees Clear & breezy.	Date:	10/18/2013		
Safety Meeting	Yes	Safety Meeting Topic: Observations & Planned Activities.			Day:	Friday	
Personnel on site				Equipment on Site		Shift:	6:00 16:00
Over-site: Nita Shinn (Envirocon) & Kris Everett (LS)							

Operator's Name	Hours	Position	Type	Desc	Equip #	Hours Op.	Standby	Site Operations	WBS
A. Buell		Project Director	Chevy	Pickup	3775			Management	2201
A. Simmons		Project Manager	Chevy	Pickup	3846			Health & Safety	2202
R. Whitman		Const. Manager	Chevy	Pickup	3844			Mobilization	0101
D. Johnson		Project Engineer	Chevy	Pickup	3926				
R. Lee		Safety Manager	CAT 345	Excavator	R22811			Survey	0401
J. Borth		Foreman	Trimble GCS900	GPS for Exc.	3704			Site Set-Up	0201
I. McCauley		Operator	Doosan 225	breaker				Soil Excavation	0201
R. Malone		Operator	Doosan 225	Exc/thumb	R22802			ACM Excavation	0201
K. Pittser		Operator	CAT D6T	Bulldozer	R22801			Demolition	0201
		Operator	Trimble GCS900	GPS for Dozer	3655			Transport	0201
A. Macias		Truck Driver	CAT 966K	Loader	R22828			Import Trucking	0201
E. McKinley		Truck Driver	CAT 14H	Motor Patrol	3427			Backfill	0201
		Labor	CAT 621F	Water Pull	R22800				
		Labor	10,000 Gallon	Water Tower	3369				
				Loader/Forks					
			2,000 Gallon	Water Truck	R22804				
			CAT XQ20	25KW Genset	R22809				
			CAT DCA45	45KVA Genset	R22810				
			Neptune	Wheel Wash					
I. Seymor		Field Mechanic	Ford F650	Service Truck	3593			Equipment Fuel	2207
			Ford F650	Lube Truck	3700			Demobilize	X 0102

Activity Desc: demob only today

Activity Desc: demob only today

Activity Desc: demob only today

Activity Desc: demob only today

JOB Deliveries

Supplier/Subcontract	On-site?	Quantity	Description of Delivery, Materials, Service, Notes
Impact Trucking	No		Import 0 loads of general fill.
Werdeco Trucking	No		Export ACM/Ditch Soils. 0 Loads of ACM & 0 Loads of ditch soils.
Diamondback	No		Pre Topo, Layout, Record Progress & Final As-built
Walker Specialty	No		ACM Removal. 8 Man Crew
Logistic Solutions	No		Tested backfill density.
Canyon State Oil			Delivered 0 gallons of Fuel

Material Quantities

Type II Road Mat'l	ACM	Total ACM	General Tons	Total General Tons	General Loads	Total Loads	Waste Loads	Total Lds	Off-Site Tn	TOTAL TONS	Water
0 / 0	0	325.00		1,398.00		32	0	40	0	791.00	X

Miscellaneous/Notes:

Signature: _____

Client rep: _____

2013 NERT Tronox Sump - Henderson Job # 1491501
Daily Force Account Worksheet
Estimated Costs

Description of Work Performed:		See Activity Descriptions above						
Date Work Performed:		October 18, 2013						
Labor (Employee)	Classification	Reg Hrs	OT Hrs	Reg Rate	OT Rate	Amount	WBS Coding	
A. Buell	Project Director	-	N/A	\$ 155.31	N/A	\$ -	2201	
A. Simmons	Project Manager	-	N/A	\$ 143.03	N/A	\$ -	2201	
R. Whitman	Const. Manager	-	N/A	\$ 137.06	N/A	\$ -	2201	
D. Johnson	Project Engineer	-	N/A	\$ 110.34	N/A	\$ -	2201	
R. Lee	Safety Manager	-	N/A	\$ 115.83	N/A	\$ -	2202	
J. Borth	Foreman	-	-	\$ 43.00	\$ 56.12	\$ -	0201	
I. McCauley	Operator	-	-	\$ 40.21	\$ 52.01	\$ -	0201	
R. Malone	Operator	-	-	\$ 40.21	\$ 52.01	\$ -	0201	
K. Pittser	Operator	-	-	\$ 40.21	\$ 52.01	\$ -	0201	
	Operator	-	-	\$ 36.04	\$ 45.85	\$ -	0201	
A. Macias	Truck Driver	-	-	\$ 31.87	\$ 39.70	\$ -	0201	
E. McKinley	Truck Driver	-	-	\$ 31.87	\$ 39.70	\$ -	0201	
	Labor	-	-	\$ 29.10	\$ 35.60	\$ -	0201	
	Labor	-	-	\$ 29.10	\$ 35.60	\$ -	0201	
		-	-	\$ -	\$ -	\$ -		
		-	-	\$ -	\$ -	\$ -		
		-	-	\$ -	\$ -	\$ -		
		-	-	\$ -	\$ -	\$ -		
		-	-	\$ -	\$ -	\$ -		
I. Sevmor	Field Mechanic	-	-	\$ 43.00	\$ 56.12	\$ -	2201	
		-	-	\$ -	\$ -	\$ -		

Total Labor \$ -

Equipment	Unit #	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding
Chevy	Pickup	3775	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3846	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3844	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3926	-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345	Excavator	R22811	-	\$ 121.29	\$ 84.46	\$ -	0201
Trimble GCS900	GPS for Exc.	3704	-	\$ 37.98	\$ 36.30	\$ -	0201
Doosan 225	breaker		-	\$ 201.72	\$ 170.63	\$ -	0201
Doosan 225	Exc/thumb	R22802	-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T	Bulldozer	R22801	-	\$ 85.40	\$ 54.60	\$ -	0201
Trimble GCS900	GPS for Dozer	3655	-	\$ 37.98	\$ 36.30	\$ -	0201
CAT 966K	Loader	R22828	-	\$ 126.92	\$ 85.31	\$ -	0201
CAT 14H	Motor Patrol	3427	-	\$ 69.89	\$ 41.46	\$ -	0201
CAT 621F	Water Pull	R22800	-	\$ 96.08	\$ 64.84	\$ -	0201
10,000 Gallon	Water Tower	3369	-	\$ 4.74	\$ 3.55	\$ -	0201
	Loader/Forks		-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon	Water Truck	R22804	-	\$ 57.17	\$ 35.49	\$ -	0201
CAT XQ20	25KW Genset	R22809	-	\$ 12.27	\$ 4.95	\$ -	0201
CAT DCA45	45KVA Genset	R22810	-	\$ 23.20	\$ 10.88	\$ -	0201
Neptune	Wheel Wash		-	\$ 60.69	\$ 58.17	\$ -	0201
Ford F650	Service Truck	3593	-	\$ 42.42	\$ 35.83	\$ -	0201
Ford F650	Lube Truck	3700	-	\$ 42.06	\$ 35.49	\$ -	2207

Total Equipment \$ -

Materials (Description)	Vendor	Cost	Tons	Amount	WBS Coding
Transport ACM to Apex	Werco Trucking	\$ 23.87	0	\$ -	
Transport SW to Apex	Werco Trucking	\$ 10.13	0	\$ -	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	\$ -	\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
		\$ -		\$ -	

Total Materials \$ -

Subcontractors	Work Performed	Cost	Hours	Amount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$ -	0201
Walker Specialty	ACM Removal, 8 Man Crew	\$ 912.18		\$ -	0201
Logistic Solutions	Tested backfill density.	\$ -		\$ -	0201
		\$ -		\$ -	
		\$ -		\$ -	
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -		\$ -	2207

Total Subcontractors \$ -

Per Diem / Mileage	Days	Rate	Amount	WBS Coding
Andrew Simmons		\$ 107.00	\$ -	2201
Richard Whitman		\$ 107.00	\$ -	2201



**2013 NERT Tronox Sump - Henderson
Daily Report Job # 1491501**

REPORT BY:	R. Whitman	Weather:	(temp.,wind,precip.) 80 to 90 degrees Clear & breezy.	Date:	10/19/2013	
Safety Meeting	No	Safety Meeting Topic :			Day:	Saturday
Oversite: Nita Shinn (Environ) & Kris Everett (LS)				Shift:	6:00 16:00	

Personnel on site			Equipment on Site					Activities	
Operator's Name	Hours	Position	Type	Desc	Equip #	Hours Op.	Standby	Site Operations	WBS
A. Buell		Project Director	Chevy	Pickup	3775			Management	2201
A. Simmons		Project Manager	Chevy	Pickup	3846			Health & Safety	2202
R. Whitman		Const. Manager	Chevy	Pickup	3844			Mobilization	0101
D. Johnson		Project Engineer	Chevy	Pickup	3926				
R. Lee		Safety Manager	CAT 345	Excavator	R22811			Survey	0401
J. Borth		Foreman	Trimble GCS900	GPS for Exc.	3704			Site Set-Up	0201
I. McCauley		Operator	Doosan 225	breaker				Soil Excavation	0201
R. Malone		Operator	Doosan 225	Exc/thumb	R22802			ACM Excavation	0201
K. Pittser		Operator	CAT D6T	Bulldozer	R22801			Demolition	0201
		Operator	Trimble GCS900	GPS for Dozer	3655			Transport	0201
A. Macias		Truck Driver	CAT 966K	Loader	R22828			Import Trucking	0201
E. McKinley		Truck Driver	CAT 14H	Motor Patrol	3427			Backfill	0201
		Labor	CAT 621F	Water Pull	R22800				
		Labor	10,000 Gallon	Water Tower	3369				
				Loader/Forks					
			2,000 Gallon	Water Truck	R22804				
			CAT XQ20	25KW Genset	R22809				
			CAT DCA45	45KVA Genset	R22810				
			Neptune	Wheel Wash					
I. Seymor		Field Mechanic	Ford F650	Service Truck	3593			Equipment Fuel	2207
			Ford F650	Lube Truck	3700			Demobilize	0102

Activity Desc:	
Activity Desc:	
Activity Desc:	
Activity Desc:	

JOB Deliveries			
Supplier/Subcontract	On-site?	Quantity	Description of Delivery, Materials, Service, Notes
Impact Trucking	No		Import 0 loads of general fill.
Werdeco Trucking	No		Export ACM/Ditch Soils. 0 Loads of ACM & 0 Loads of ditch soils.
Diamondback	No		Pre Topo, Layout, Record Progress & Final As-built
Walker Specialty	No		ACM Removal. 8 Man Crew
Logistic Solutions	No		Tested backfill density.
Canyon State Oil			Delivered 0 gallons of Fuel

Material Quantities											
Type II Road Mat'l	ACM	Total ACM	General Tons	Total General Tons	General Loads	Total Loads	Waste Loads	Total Lds	Off-Site Tn	TOTAL TONS	Water
0 / 0	0	325.00	0	1,398.00	0	32	0	40	0	791.00	X

Miscellaneous/Notes:

Signature: _____

Client rep: _____

2013 NERT Tronox Sump - Henderson Job # 1491501
Daily Force Account Worksheet
Estimated Costs

Description of Work Performed:		See Activity Descriptions above						
Date Work Performed:		October 19, 2013						
Labor (Employee)	Classification	Reg Hrs	OT Hrs	Reg Rate	OT Rate	Amount	WBS Coding	
A. Buell	Project Director	-	N/A	\$ 155.31	N/A	\$ -	2201	
A. Simmons	Project Manager	-	N/A	\$ 143.03	N/A	\$ -	2201	
R. Whitman	Const. Manager	-	N/A	\$ 137.06	N/A	\$ -	2201	
D. Johnson	Project Engineer	-	N/A	\$ 110.34	N/A	\$ -	2201	
R. Lee	Safety Manager	-	N/A	\$ 115.83	N/A	\$ -	2202	
J. Borth	Foreman	-		\$ 43.00	\$ 56.12	\$ -	0201	
I. McCauley	Operator	-		\$ 40.21	\$ 52.01	\$ -	0201	
R. Malone	Operator	-		\$ 40.21	\$ 52.01	\$ -	0201	
K. Pittser	Operator	-		\$ 40.21	\$ 52.01	\$ -	0201	
	Operator	-		\$ 36.04	\$ 45.85	\$ -	0201	
A. Macias	Truck Driver	-		\$ 31.87	\$ 39.70	\$ -	0201	
E. McKinley	Truck Driver	-		\$ 31.87	\$ 39.70	\$ -	0201	
	Labor	-		\$ 29.10	\$ 35.60	\$ -	0201	
	Labor	-		\$ 29.10	\$ 35.60	\$ -	0201	
		-		\$ -	\$ -	\$ -		
		-		\$ -	\$ -	\$ -		
		-		\$ -	\$ -	\$ -		
		-		\$ -	\$ -	\$ -		
		-		\$ -	\$ -	\$ -		
		-		\$ -	\$ -	\$ -		
I. Seymor	Field Mechanic	-		\$ 43.00	\$ 56.12	\$ -	2201	
		-		\$ -	\$ -	\$ -		

Total Labor \$ -

Equipment	Unit #	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding
Chevy	Pickup	3775	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3846	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3844	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3926	-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345	Excavator	R22811	-	\$ 121.29	\$ 84.46	\$ -	0201
Trimble GCS900	GPS for Exc.	3704	-	\$ 37.98	\$ 36.30	\$ -	0201
Doosan 225	breaker	-	-	\$ 201.72	\$ 170.63	\$ -	0201
Doosan 225	Exc/thumb	R22802	-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T	Bulldozer	R22801	-	\$ 85.40	\$ 54.60	\$ -	0201
Trimble GCS900	GPS for Dozer	3655	-	\$ 37.98	\$ 36.30	\$ -	0201
CAT 966K	Loader	R22828	-	\$ 126.92	\$ 85.31	\$ -	0201
CAT 14H	Motor Patrol	3427	-	\$ 69.89	\$ 41.46	\$ -	0201
CAT 621F	Water Pull	R22800	-	\$ 96.08	\$ 64.84	\$ -	0201
10,000 Gallon	Water Tower	3369	-	\$ 4.74	\$ 3.55	\$ -	0201
	Loader/Forks	-	-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon	Water Truck	R22804	-	\$ 57.17	\$ 35.49	\$ -	0201
CAT XQ20	25KW Genset	R22809	-	\$ 12.27	\$ 4.95	\$ -	0201
CAT DCA45	45KVA Genset	R22810	-	\$ 23.20	\$ 10.88	\$ -	0201
Neptune	Wheel Wash	-	-	\$ 60.69	\$ 58.17	\$ -	0201
Ford F650	Service Truck	3593	-	\$ 42.42	\$ 35.83	\$ -	0201
Ford F650	Lube Truck	3700	-	\$ 42.06	\$ 35.49	\$ -	2207

Total Equipment \$ -

Materials (Description)	Vendor	Cost	Tons	Amount	WBS Coding
Transport ACM to Apex	Werdeco Trucking	\$ 23.87	0	\$ -	
Transport SW to Apex	Werdeco Trucking	\$ 10.13	0	\$ -	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	0	\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
		\$ -		\$ -	

Total Materials \$ -

Subcontractors	Work Performed	Cost	Hours	Amount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$ -	0201
Walker Specialty	ACM Removal. 8 Man Crew	\$ 912.18		\$ -	0201
Logistic Solutions	Tested backfill density.	\$ -		\$ -	0201
		\$ -		\$ -	
		\$ -		\$ -	
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -		\$ -	2207

Total Subcontractors \$ -

Per Diems / Mileage	Days	Rate	Amount	WBS Coding
Andrew Simmons		\$ 107.00	\$ -	2201
Richard Whitman		\$ 107.00	\$ -	2201

2013 NERT Tronox Sump - Henderson Job # 1491501
Daily Force Account Worksheet Summary
Estimated Costs for Week Ending 10/20/2013

Date Work Performed:

Labor (Employee)	Classification	Reg Hrs	OT Hrs	Reg Rate	OT Rate	Amount	WBS Coding
A. Buell	Project Director	-	N/A	\$ 155.31	N/A	\$ -	2201
A. Simmons	Project Manager	5.0	N/A	\$ 143.03	N/A	\$ 715.15	2201
R. Whitman	Superintendent	-	N/A	\$ 137.06	N/A	\$ -	2201
D. Johnson	Project Engineer	10.0	N/A	\$ 110.34	N/A	\$ 1,103.40	2201
R. Lee	Safety Manager	11.0	N/A	\$ 115.83	N/A	\$ 1,274.13	2202
J. Borth	Foreman	10.0	-	\$ 43.00	\$ 56.12	\$ 430.00	0201
I. McCauley	Operator	-	-	\$ 40.21	\$ 52.01	\$ -	0201
R. Malone	Operator	5.0	5.0	\$ 40.21	\$ 52.01	\$ 461.10	0201
K. Pittser	Operator	7.0	7.0	\$ 40.21	\$ 52.01	\$ 645.54	0201
A. Macias	Driver	2.0	7.0	\$ 31.87	\$ 39.70	\$ 341.64	0201
E. McKinley	Driver	-	5.0	\$ 31.87	\$ 39.70	\$ 198.50	0201
I. Seymor	Field Mechanic	-	1.0	\$ 43.00	\$ 56.12	\$ 56.12	2201
		-	-	\$ -	\$ -	\$ -	
Total Labor						\$ 5,225.58	

Equipment	Unit #	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding
Chevy Pickup	3775	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy Pickup	3846	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy Pickup	3844	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy Pickup	3926	-	-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345 Excavator	R22811	-	-	\$ 121.29	\$ 84.46	\$ -	0201
Trimble GCS900 for Excavator	3704	-	-	\$ 37.98	\$ 36.30	\$ -	0201
CAT D6T Bulldozer	R22801	5.0	-	\$ 85.40	\$ 54.60	\$ 427.00	0201
Trimble GCS900 for Bulldozer	3655	5.0	-	\$ 37.98	\$ 36.30	\$ 189.90	0201
CAT 966K Front-end Loader	R22828	5.0	-	\$ 126.92	\$ 85.31	\$ 634.60	0201
CAT 14H Motor Patrol	3427	7.0	-	\$ 69.89	\$ 41.46	\$ 489.23	0201
CAT 621F Water Pull	R22800	9.0	-	\$ 96.08	\$ 64.84	\$ 864.72	0201
10,000 Gallon Water Tower	3369	9.0	-	\$ 4.74	\$ 3.55	\$ 42.66	0201
2,000 Gallon Water Truck	R22804	-	-	\$ 57.17	\$ 35.49	\$ -	0201
CAT XQ20 Generator	R22809	5.0	-	\$ 12.27	\$ 4.95	\$ 61.35	0201
CAT DCA45 Generator	R22810	7.0	-	\$ 23.20	\$ 10.88	\$ 162.40	0201
Neptune Wheel Wash		7.0	-	\$ 60.69	\$ 58.17	\$ 424.83	0201
Ford F650 Service Truck	3593	-	-	\$ 42.42	\$ 35.83	\$ -	2201
Ford F650 Lube Truck	3700	1.0	-	\$ 42.06	\$ 35.49	\$ 42.06	2201
Total Equipment						\$ 3,338.75	

Subcontractors	Work Performed	Cost	Hours	Amount	WBS Coding
Walker Specialty 8 Man Crew	ACM Removal	\$ 912.18	-	\$ -	0201
Diamondback	Surveyor	\$ -	-	\$ -	0401
Geotek	Density Testing	\$ -	-	\$ -	0201
Total Subcontractors				\$ -	

Materials (Description)	Vendor	Cost	Ton	Amount	WBS Coding
Transport ACM to Apex	Werdco Trucking	\$ 23.87	-	\$ -	0201
Transport SW to Apex	Werdco Trucking	\$ 10.13	-	\$ -	0201
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	382.0	\$ 4,244.02	0201
Dust Palliative	Terra Novo	\$ 950.00	1.0	\$ 950.00	0201
Total Materials				\$ 5,194.02	

Per Diems / Mileage	Days	Rate	Amount	WBS Coding
Andrew Simmons	0.75	\$ 106.62	\$ 79.97	2201
Richard Whitman	-	\$ 106.62	\$ -	2201
Dennis Johnson	1.25	\$ 106.62	\$ 133.28	2201
Reggie Lee	1.50	\$ 106.62	\$ 159.93	2201
John Borth	1.25	\$ 94.77	\$ 118.46	2201
Russ Malone	0.50	\$ 94.77	\$ 47.39	2201
Kevin Pittser	0.75	\$ 94.77	\$ 71.08	2201
Ivan Seymor	-	\$ 94.77	\$ -	2201
Ike McCauley	-	\$ 94.77	\$ -	2201
Total per diems			\$ 610.10	

Weekly Force Account Total **\$ 14,368.45**



2013 NERT Tronox Sump - Henderson										Daily	
Report Job # 1491501											
REPORT BY:	R. Whitman			Weather:	(temp.,wind,precip.) 85 to 95 degrees Clear & calm.			Date:	9/30/2013		
Safety Meeting	Yes	Safety Meeting Topic : Observations & Planned Activities.						Day:	Monday		
							Oversite:	Nita Shinn (Environ)		Shift:	6:00 18:00
Personel on site			Equipment on Site					Activities			
Operator's Name	Hours	Position	Type	Desc	Equip #	Hours Op.	Standby	Site Operations	WBS		
A. Buell		Project Director	Chevy	Pickup	3775			Management	X	2201	
A. Simmons	8	Project Manager	Chevy	Pickup	3846			Health & Safety		2202	
R. Whitman	1	Const. Manager	Chevy	Pickup	3844	1		Mobilization	X	0101	
D. Johnson	8	Project Engineer	Chevy	Pickup	3926						
R. Lee		Safety Manager	CAT 345	Excavator	R22811			Survey	X	0401	
J. Borth		Foreman	Trimble GCS900	GPS for Exc.	3704			Site Set-Up	X	0201	
I. McCauley	1	Operator	Doosan 210	breaker				Soil Excavation		0201	
R. Malone		Operator	Doosan 210	Exc/thumb				ACM Excavation		0201	
K. Pittser		Operator	CAT D6T	Bulldozer	R22801	1		Demolition		0201	
		Operator	Trimble GCS900	GPS for Dozer	3655	1		Transport		0201	
A. Macias	1	Truck Driver	CAT 966K	Loader	R22828			Import Trucking		0201	
E. McKinley	1	Truck Driver	CAT 14H	Motor Patrol	3427			Backfill		0201	
		Labor	CAT 621F	Water Pull	R22800						
		Labor	10,000 Gallon	Water Tower	3369						
				Loader/Forks							
				2,000 Gallon	Water Truck	R22804	1				
				CAT XQ20	25KW Genset	R22809					
				CAT DCA45	45KVA Genset	R22810					
				Neptune	Wheel Wash						
I. Seymour		Field Mechanic	Ford F650	Service Truck	3593			Equipment Fuel		2207	
			Ford F650	Lube Truck	3700			Demobilize		0102	
Activity Desc:	Had dozer level up an area on Timet's property to access the Tronox sump with tractor trailer units. Used water truck to presoak are & control dust. Plated with some imported material from the Boulder Ranch quarry.										
Activity Desc:	Project Manager worked on contract & permit items majority of the day Project Engineer worked on pre-topo survey majority of the day Mobilized Doosan 225X and Hammer for NERT project today										
Activity Desc:											
Activity Desc:											
JOB Deliveries											
Supplier/Subcontracts	On-site?	Quantity	Description of Delivery, Materials, Service, Notes								
Impact Trucking			Import 0 loads of general fill.								
Werdeco Trucking			Export ACM/Ditch Soils. 0 Loads of ACM & 0 Loads of ditch soils.								
Diamondback			Pre Topo, Layout, Record Progress & Final As-built								
Walker Specialty			ACM Removal. 8 Man Crew								
Geotek			Tested backfill density.								
Canyon State Oil			Delivered 0 gallons of Fuel								
Material Quantities											
Type II Road Mat'l	ACM	Total ACM	General Tons	Total General Tons	General Loads	Total Loads	Waste Loads	Total Lds	Off-Site Tn	TOTAL TONS	Water
0 / 0	0	0	0	0	0	0	0	0	0	0	1
Miscellaneous/Notes:											



2013 NERT Tronox Sump - Henderson Job # 1491501							
Daily Force Account Worksheet							
Estimated Costs							
Description of Work Performed:		See Activity Descriptions above					
Date Work Performed:		September 30, 2013					
Labor (Employee)	Classification	Reg Hrs	OT Hrs	Reg Rate	OT Rate	Amount	WBS Coding
A. Buell	Project Director	-	N/A	\$ 155.31	N/A	\$ -	2201
A. Simmons	Project Manager	8.0	N/A	\$ 143.03	N/A	\$ 1,144.24	2201
R. Whitman	Const. Manager	1.0	N/A	\$ 137.06	N/A	\$ 137.06	2201
D. Johnson	Project Engineer	8.0	N/A	\$ 110.34	N/A	\$ 882.72	2201
R. Lee	Safety Manager	-	N/A	\$ 115.83	N/A	\$ -	2202
J. Borth	Foreman	-	-	\$ 43.00	\$ 56.12	\$ -	0201
I. McCauley	Operator	1.0	-	\$ 40.21	\$ 52.01	\$ 40.21	0201
R. Malone	Operator	-	-	\$ 40.21	\$ 52.01	\$ -	0201
K. Pittser	Operator	-	-	\$ 40.21	\$ 52.01	\$ -	0201
	Operator	-	-	\$ 36.04	\$ 45.85	\$ -	0201
A. Macias	Truck Driver	1.0	-	\$ 31.87	\$ 39.70	\$ 31.87	0201
E. McKinley	Truck Driver	1.0	-	\$ 31.87	\$ 39.70	\$ 31.87	0201
	Labor	-	-	\$ 29.10	\$ 35.60	\$ -	0201
	Labor	-	-	\$ 29.10	\$ 35.60	\$ -	0201
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
I. Seymor	Field Mechanic	-	-	\$ 43.00	\$ 56.12	\$ -	2201
		-	-	\$ -	\$ -	\$ -	
Total Labor						\$ 2,267.97	

Equipment	Unit #	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding
Chevy	Pickup	3775	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3846	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3844	1.0	\$ 9.54	\$ 5.09	\$ 9.54	2201
Chevy	Pickup	3926	-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345	Excavator	R22811	-	\$ 121.29	\$ 84.46	\$ -	0201
Trimble GCS900	GPS for Exc.	3704	-	\$ 37.98	\$ 36.30	\$ -	0201
Doosan 210	breaker		-	\$ 201.72	\$ 170.63	\$ -	0201
Doosan 210	Exc/thumb		-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T	Bulldozer	R22801	1.0	\$ 85.40	\$ 54.60	\$ 85.40	0201
Trimble GCS900	GPS for Dozer	3655	1.0	\$ 37.98	\$ 36.30	\$ 37.98	0201
CAT 966K	Loader	R22828	-	\$ 126.92	\$ 85.31	\$ -	0201
CAT 14H	Motor Patrol	3427	-	\$ 69.89	\$ 41.46	\$ -	0201
CAT 621F	Water Pull	R22800	-	\$ 96.08	\$ 64.84	\$ -	0201
10,000 Gallon	Water Tower	3369	-	\$ 4.74	\$ 3.55	\$ -	0201
	Loader/Forks		-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon	Water Truck	R22804	1.0	\$ 57.17	\$ 35.49	\$ 57.17	0201
CAT XQ20	25KW Genset	R22809	-	\$ 12.27	\$ 4.95	\$ -	0201
CAT DCA45	45KVA Genset	R22810	-	\$ 23.20	\$ 10.88	\$ -	0201
Neptune	Wheel Wash		-	\$ 60.69	\$ 58.17	\$ -	0201
Ford F650	Service Truck	3593	-	\$ 42.42	\$ 35.83	\$ -	0201
Ford F650	Lube Truck	3700	-	\$ 42.06	\$ 35.49	\$ -	2207
Total Equipment						\$ 190.09	

Materials (Description)	Vendor	Cost	Tons	Amount	WBS Coding
Transport ACM to Apex	Werdeco Trucking	\$ 23.87	0	\$ -	
Transport SW to Apex	Werdeco Trucking	\$ 10.13	0	\$ -	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	0	\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
Total Materials				\$ -	

Subcontractors	Work Performed	Cost	Hours	Amount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$ -	0201
Walker Specialty	ACM Removal. 8 Man Crew	\$ 912.18		\$ -	0201
Geotek	Tested backfill density.	\$ -		\$ -	0201
		\$ -		\$ -	
		\$ -		\$ -	
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -		\$ -	2207
Total Subcontractors				\$ -	

Per Diems / Mileage	Days	Rate	Amount	WBS Coding
Andrew Simmons	1	\$ 106.62	\$ 106.62	2201
Richard Whitman	0.25	\$ 106.62	\$ 26.66	2201
Dennis Johnson	1	\$ 106.62	\$ 106.62	2201
Reggie Lee		\$ 106.62	\$ -	2201
John Borth		\$ 94.77	\$ -	2201
Russ Malone		\$ 94.77	\$ -	2201
Kevin Pittser		\$ 94.77	\$ -	2201
Ivan Seymor		\$ 94.77	\$ -	2201
Ike McCalley	0.25	\$ 94.77	\$ 23.69	2201
Total per diems			\$ 263.59	

\$ 2,721.65 Daily Force Account Total



2013 NERT Tronox Sump - Henderson
Daily Report Job # 1491501

REPORT BY:	R. Whitman	Weather:	(temp.,wind,precip.) 80 to 90 degrees Clear & breezy.	Date:	10/1/2013	
Safety Meeting	Yes	Safety Meeting Topic : Observations & Planned Activities.			Day:	Tuesday
				Oversite:	Nita Shinn & James (Environ)	
				Shift:	8:00 16:00	

Personel on site			Equipment on Site					Activities		
Operator's Name	Hours	Position	Type	Desc	Equip #	Hours Op.	Standby	Site Operations	WBS	
A. Buell		Project Director	Chevy	Pickup	3775	8		Management	X	2201
A. Simmons	2	Project Manager	Chevy	Pickup	3846			Health & Safety	X	2202
R. Whitman	8	Const. Manager	Chevy	Pickup	3844	8		Mobilization	X	0101
D. Johnson	2	Project Engineer	Chevy	Pickup	3926					
R. Lee	8	Safety Manager	CAT 345	Excavator	R22811	8	2	Survey		0401
J. Borth		Foreman	Trimble GCS900	GPS for Exc.	3704	8	2	Site Set-Up	X	0201
I. McCauley	8	Operator	Doosan 225	breaker			10	Soil Excavation	X	0201
R. Malone		Operator	Doosan 225	Exc/thumb	R22802			ACM Excavation		0201
K. Pitsner		Operator	CAT D6T	Bulldozer	R22801			Demolition	X	0201
		Operator	Trimble GCS900	GPS for Dozer	3655			Transport		0201
A. Macias		Truck Driver	CAT 966K	Loader	R22828			Import Trucking		0201
E. McKinley	8	Truck Driver	CAT 14H	Motor Patrol	3427	1		Backfill		0201
		Labor	CAT 621F	Water Pull	R22800					
		Labor	10,000 Gallon	Water Tower	3369	5				
				Loader/Forks						
			2,000 Gallon	Water Truck	R22804	8	2			
			CAT XQ20	25KW Genset	R22809	5				
			CAT DCA45	45KVA Genset	R22810					
			Neptune	Wheel Wash						
I. Seymour		Field Mechanic	Ford F650	Service Truck	3593			Equipment Fuel	X	2207
			Ford F650	Lube Truck	3700			Demobilize		0102

- Activity Desc:** Met with Nita & James from Environ, along with our Envirocon team in the field at 8:00. Discussed plan & address safety aspects. Waited for the 'go ahead' from the contracts department until 12:00.
- Activity Desc:** Exposed sump structure, removed concrete & iron associated with the structure. Also removed 5 CMP culverts. Had water truck driver continuously apply water to control dust. Doosan Breaker brought onsite in preparation for demolition of structure. Unit was not needed as 345 Excavator was able to demolish the structure. The breaker was on standby all day and called off after 3 days rental (once all the structure was removed and confirmed).
- Activity Desc:** Suspect ACM material was encountered at a shallow depth on the south end. Worked around material until asbestos consultant can confirm & Walker is present to handle.
- Activity Desc:** Trucks were used on the Timet side while waiting for approval to proceed with hauling. They were sent away before approval was given.

JOB Deliveries		Quantity	Description of Delivery, Materials, Service, Notes
Supplier/Subcontract	On-site?		
Impact Trucking			Import 0 loads of general fill.
Werdco Trucking			Export ACM/Ditch Soils. 0 Loads of ACM & 0 Loads of ditch soils.
Diamondback			Pre Topo, Layout, Record Progress & Final As-built
Walker Specialty			ACM Removal. 8 Man Crew
Geotek			Tested backfill density.
Canyon State Oil			Delivered 0 gallons of Fuel

Material Quantities											
Type II Road Mat'l	ACM	Total ACM	General Tons	Total General Tons	General Loads	Total Loads	Waste Loads	Total Lds	Off-Site Tn	TOTAL TONS	Water
0 / 0	0	0	0	0	0	0	0	0	0	0	2

Miscellaneous/Notes:

2013 NERT Tronox Sump - Henderson Job # 1491501
Daily Force Account Worksheet
Estimated Costs

Description of Work Performed: See Activity Descriptions above

Date Work Performed: October 1, 2013

Labor (Employee)	Classification	Reg Hrs	OT Hrs	Reg Rate	OT Rate	Amount	WBS Coding
A. Buell	Project Director	-	N/A	\$ 155.31	N/A	\$ -	2201
A. Simmons	Project Manager	2.0	N/A	\$ 143.03	N/A	\$ 286.06	2201
R. Whitman	Const. Manager	8.0	N/A	\$ 137.06	N/A	\$ 1,096.48	2201
D. Johnson	Project Engineer	2.0	N/A	\$ 110.34	N/A	\$ 220.68	2201
R. Lee	Safety Manager	8.0	N/A	\$ 115.83	N/A	\$ 926.64	2202
J. Borth	Foreman	-	-	\$ 43.00	\$ 56.12	\$ -	0201
I. McCauley	Operator	8.0	-	\$ 40.21	\$ 52.01	\$ 321.68	0201
R. Malone	Operator	-	-	\$ 40.21	\$ 52.01	\$ -	0201
K. Pittser	Operator	-	-	\$ 40.21	\$ 52.01	\$ -	0201
	Operator	-	-	\$ 36.04	\$ 45.85	\$ -	0201
A. Macias	Truck Driver	-	-	\$ 31.87	\$ 39.70	\$ -	0201
E. McKinley	Truck Driver	8.0	-	\$ 31.87	\$ 39.70	\$ 254.96	0201
	Labor	-	-	\$ 29.10	\$ 35.60	\$ -	0201
	Labor	-	-	\$ 29.10	\$ 35.60	\$ -	0201
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
I. Seymor	Field Mechanic	-	-	\$ 43.00	\$ 56.12	\$ -	2201
		-	-	\$ -	\$ -	\$ -	
Total Labor						\$ 3,106.50	

Equipment	Unit #	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding
Chevy	Pickup	3775	8.0	\$ 9.54	\$ 5.09	\$ 76.32	2201
Chevy	Pickup	3846	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3844	8.0	\$ 9.54	\$ 5.09	\$ 76.32	2201
Chevy	Pickup	3926	-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345	Excavator	R22811	8.0	\$ 121.29	\$ 84.46	\$ 1,139.24	0201
Trimble GCS900	GPS for Exc.	3704	8.0	\$ 37.98	\$ 36.30	\$ 376.44	0201
Doosan 225	breaker		-	\$ 201.72	\$ 170.63	\$ 1,706.30	0201
Doosan 225	Exc/thumb	R22802	-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T	Bulldozer	R22801	-	\$ 85.40	\$ 54.60	\$ -	0201
Trimble GCS900	GPS for Dozer	3655	-	\$ 37.98	\$ 36.30	\$ -	0201
CAT 966K	Loader	R22828	-	\$ 126.92	\$ 85.31	\$ -	0201
CAT 14H	Motor Patrol	3427	1.0	\$ 69.89	\$ 41.46	\$ 69.89	0201
CAT 621F	Water Pull	R22800	-	\$ 96.08	\$ 64.84	\$ -	0201
10,000 Gallon	Water Tower	3369	5.0	\$ 4.74	\$ 3.55	\$ 23.70	0201
	Loader/Forks		-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon	Water Truck	R22804	8.0	\$ 57.17	\$ 35.49	\$ 528.34	0201
CAT XQ20	25KW Genset	R22809	5.0	\$ 12.27	\$ 4.95	\$ 61.35	0201
CAT DCA45	45KVA Genset	R22810	-	\$ 23.20	\$ 10.88	\$ -	0201
Neptune	Wheel Wash		-	\$ 60.69	\$ 58.17	\$ -	0201
Ford F650	Service Truck	3593	-	\$ 42.42	\$ 35.83	\$ -	0201
Ford F650	Lube Truck	3700	-	\$ 42.06	\$ 35.49	\$ -	2207
Total Equipment						\$ 4,057.90	

Materials (Description)	Vendor	Cost	Tons	Amount	WBS Coding
Transport ACM to Apex	Werdeco Trucking	\$ 23.87	0	\$ -	
Transport SW to Apex	Werdeco Trucking	\$ 10.13	0	\$ -	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	0	\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
Total Materials				\$ -	

Subcontractors	Work Performed	Cost	Hours	Amount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$ -	0201
Walker Specialty	ACM Removal. 8 Man Crew	\$ 912.18		\$ -	0201
Geotek	Tested backfill density.	\$ -		\$ -	0201
		\$ -		\$ -	
		\$ -		\$ -	
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -		\$ -	2207
Total Subcontractors				\$ -	

Per Diems / Mileage	Days	Rate	Amount	WBS Coding
Andrew Simmons	0.25	\$ 106.62	\$ 26.66	2201
Richard Whitman	1	\$ 106.62	\$ 106.62	2201
Dennis Johnson	0.25	\$ 106.62	\$ 26.66	2201
Reggie Lee	1	\$ 106.62	\$ 106.62	2201
John Borth		\$ 94.77	\$ -	2201
Russ Malone		\$ 94.77	\$ -	2201
Kevin Pittser		\$ 94.77	\$ -	2201
Ivan Seymor		\$ 94.77	\$ -	2201
Ike McCauley	1	\$ 94.77	\$ 94.77	2201
Total per diems			\$ 361.32	

\$ 7,525.72 Daily Force Account Total



**2013 NERT Tronox Sump - Henderson
Daily Report Job # 1491501**

REPORT BY:	R. Whitman	Weather:	(temp.,wind,precip.) 80 to 90 degrees Clear & breezy.	Date:	10/2/2013	
Safety Meeting	Yes	Safety Meeting Topic : Observations & Planned Activities.			Day:	Wednesday
Oversite: Nita Shinn (Environ) & Kris Everett (LS)				Shift:	6:00 18:00	

Personnel on site			Equipment on Site					Activities		
Operator's Name	Hours	Position	Type	Desc	Equip #	Hours Op.	Standby	Site Operations	WBS	
A. Buell		Project Director	Chevy	Pickup	3775	8		Management	X	2201
A. Simmons	2	Project Manager	Chevy	Pickup	3846			Health & Safety	X	2202
R. Whitman	8	Const. Manager	Chevy	Pickup	3844	8		Mobilization		0101
D. Johnson	2	Project Engineer	Chevy	Pickup	3926					
R. Lee	8	Safety Manager	CAT 345	Excavator	R22811	12		Survey		0401
J. Borth		Foreman	Trimble GCS900	GPS for Exc.	3704	12		Site Set-Up	X	0201
I. McCauley	12	Operator	Doosan 225	breaker		1	9	Soil Excavation	X	0201
R. Malone		Operator	Doosan 225	Exc/thumb	R22802			ACM Excavation	X	0201
K. Pittser		Operator	CAT D6T	Bulldozer	R22801			Demolition	X	0201
		Operator	Trimble GCS900	GPS for Dozer	3655			Transport	X	0201
A. Macias	5	Truck Driver	CAT 966K	Loader	R22828			Import Trucking		0201
E. McKinley	12	Truck Driver	CAT 14H	Motor Patrol	3427			Backfill		0201
		Labor	CAT 621F	Water Pull	R22800					
		Labor	10,000 Gallon	Water Tower	3369	5				
				Loader/Forks						
			2,000 Gallon	Water Truck	R22804	12				
			CAT XQ20	25KW Genset	R22809	5				
			CAT DCA45	45KVA Genset	R22810	5				
			Neptune	Wheel Wash		5				
I. Seymor	1	Field Mechanic	Ford F650	Service Truck	3593			Equipment Fuel	X	2207
			Ford F650	Lube Truck	3700	1		Demobilize		0102

Activity Desc: Nita attended safety meeting at 6:00.
Had water truck on west patrol road for controlling dust during excavation. Water Pull controled dust on haul roads.

Activity Desc: Excavate & load impacted soils from the Tronox sump area.
Loaded demolished concrete & iron out with the impacted soils using the Doosan 225.
Hauled to Apex for disposal.
Mech/lube truck fueled at end of the day (OT)

Activity Desc: Walker set up wrapping stations to deploy liners inside trailers.
Trucks with ACM material were lined, loaded & wrapped for disposal at Apex.
Kris Everett with Logistic Solutions was on site to make determination of suspected asbestos.

Activity Desc:

JOB Deliveries			
Supplier/Subcontract	On-site?	Quantity	Description of Delivery, Materials, Service, Notes
Impact Trucking			Import 0 loads of general fill.
Werdeco Trucking	Yes	4	Export ACM/Ditch Soils. 9 Loads of ACM & 4 Loads of ditch soils.
Diamondback			Pre Topo, Layout, Record Progress & Final As-built
Walker Specialty	Yes	12	ACM Removal. 8 Man Crew
Geotek			Tested backfill density.
Canyon State Oil			Delivered 0 gallons of Fuel

Material Quantities											
Type II Road Mat'l	ACM	Total ACM	General Tons	Total General Tons	General Loads	Total Loads	Waste Loads	Total Lds	Off-Site Tn	TOTAL TONS	Water
0 / 0	205.00	205.00	0	0	0	0	4	4	79.00	79.00	4

Miscellaneous/Notes:

2013 NERT Tronox Sump - Henderson Job # 1491501
Daily Force Account Worksheet
Estimated Costs

Description of Work Performed: See Activity Descriptions above							
Date Work Performed: October 2, 2013							
Labor (Employee)	Classification	Reg Hrs	OT Hrs	Reg Rate	OT Rate	Amount	WBS Coding
A. Buell	Project Director	-	N/A	\$ 155.31	N/A	\$ -	2201
A. Simmons	Project Manager	2.0	N/A	\$ 143.03	N/A	\$ 286.06	2201
R. Whitman	Const. Manager	8.0	N/A	\$ 137.06	N/A	\$ 1,096.48	2201
D. Johnson	Project Engineer	2.0	N/A	\$ 110.34	N/A	\$ 220.68	2201
R. Lee	Safety Manager	8.0	N/A	\$ 115.83	N/A	\$ 926.64	2202
J. Borth	Foreman	-	-	\$ 43.00	\$ 56.12	\$ -	0201
I. McCauley	Operator	12.0	-	\$ 40.21	\$ 52.01	\$ 482.52	0201
R. Malone	Operator	-	-	\$ 40.21	\$ 52.01	\$ -	0201
K. Pittser	Operator	-	-	\$ 40.21	\$ 52.01	\$ -	0201
	Operator	-	-	\$ 36.04	\$ 45.85	\$ -	0201
A. Macias	Truck Driver	5.0	-	\$ 31.87	\$ 39.70	\$ 159.35	0201
E. McKinley	Truck Driver	12.0	-	\$ 31.87	\$ 39.70	\$ 382.44	0201
	Labor	-	-	\$ 29.10	\$ 35.60	\$ -	0201
	Labor	-	-	\$ 29.10	\$ 35.60	\$ -	0201
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
I. Seymor	Field Mechanic	1.0	-	\$ 43.00	\$ 56.12	\$ 43.00	2201
		-	-	\$ -	\$ -	\$ -	
Total Labor						\$ 3,597.17	

Equipment	Unit #	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding
Chevy	Pickup 3775	8.0	-	\$ 9.54	\$ 5.09	\$ 76.32	2201
Chevy	Pickup 3846	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup 3844	8.0	-	\$ 9.54	\$ 5.09	\$ 76.32	2201
Chevy	Pickup 3926	-	-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345	Excavator R22811	12.0	-	\$ 121.29	\$ 84.46	\$ 1,455.48	0201
Trimble GCS900	GPS for Exc. 3704	12.0	-	\$ 37.98	\$ 36.30	\$ 455.76	0201
Doosan 225	breaker	1.0	9.0	\$ 201.72	\$ 170.63	\$ 1,737.39	0201
Doosan 225	Exc/thumb R22802	-	-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T	Bulldozer R22801	-	-	\$ 85.40	\$ 54.60	\$ -	0201
Trimble GCS900	GPS for Dozer 3655	-	-	\$ 37.98	\$ 36.30	\$ -	0201
CAT 966K	Loader R22828	-	-	\$ 126.92	\$ 85.31	\$ -	0201
CAT 14H	Motor Patrol 3427	-	-	\$ 69.89	\$ 41.46	\$ -	0201
CAT 621F	Water Pull R22800	5.0	-	\$ 96.08	\$ 64.84	\$ 480.40	0201
10,000 Gallon	Water Tower 3369	5.0	-	\$ 4.74	\$ 3.55	\$ 23.70	0201
	Loader/Forks	-	-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon	Water Truck R22804	12.0	-	\$ 57.17	\$ 35.49	\$ 686.04	0201
CAT XQ20	25KW Genset R22809	5.0	-	\$ 12.27	\$ 4.95	\$ 61.35	0201
CAT DCA45	45KVA Genset R22810	5.0	-	\$ 23.20	\$ 10.88	\$ 116.00	0201
Neptune	Wheel Wash	5.0	-	\$ 60.69	\$ 58.17	\$ 303.45	0201
Ford F650	Service Truck 3593	-	-	\$ 42.42	\$ 35.83	\$ -	0201
Ford F650	Lube Truck 3700	1.0	-	\$ 42.06	\$ 35.49	\$ 42.06	2207
Total Equipment						\$ 5,514.27	

Materials (Description)	Vendor	Cost	Tons	Amount	WBS Coding
Transport ACM to Apex	Werdeco Trucking	\$ 23.87	\$ 204.54	\$ 4,882.37	
Transport SW to Apex	Werdeco Trucking	\$ 10.13	\$ 78.59	\$ 796.12	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	0	\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
Total Materials				\$ 5,678.49	

Subcontractors	Work Performed	Cost	Hours	Amount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$ -	0201
Walker Specialty	ACM Removal, 8 Man Crew	\$ 912.18	12	\$ 10,946.16	0201
Geotek	Tested backfill density.	\$ -		\$ -	0201
		\$ -		\$ -	
		\$ -		\$ -	
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -		\$ -	2207
Total Subcontractors				\$ 10,946.16	

Per Diems / Mileage	Days	Rate	Amount	WBS Coding
Andrew Simmons	0.25	\$ 106.62	\$ 26.66	2201
Richard Whitman	1	\$ 106.62	\$ 106.62	2201
Dennis Johnson	0.25	\$ 106.62	\$ 26.66	2201
Reggie Lee	1	\$ 106.62	\$ 106.62	2201
John Borth		\$ 94.77	\$ -	2201
Russ Malone		\$ 94.77	\$ -	2201
Kevin Pittser		\$ 94.77	\$ -	2201
Ivan Seymor		\$ 94.77	\$ -	2201
Ike McCauley	1	\$ 94.77	\$ 94.77	2201
Total per diems			\$ 361.32	

\$ 26,097.41 Daily Force Account Total



**2013 NERT Tronox Sump - Henderson
Daily Report Job # 1491501**

REPORT BY:	R. Whitman	Weather:	(temp.,wind,precip.) 80 to 90 degrees Clear & 15 to 20 mph winds.	Date:	10/3/2013	
Safety Meeting	Yes	Safety Meeting Topic : Observations & Planned Activities.			Day:	Thursday
Oversite: Nita Shinn (Environ) & Kris Everett (LS)				Shift:	6:00 18:00	

Personnel on site			Equipment on Site					Activities		
Operator's Name	Hours	Position	Type	Desc	Equip #	Hours Op.	Standby	Site Operations	WBS	
A. Buell		Project Director	Chevy	Pickup	3775	8		Management	X	2201
A. Simmons	2	Project Manager	Chevy	Pickup	3846			Health & Safety	X	2202
R. Whitman	8	Const. Manager	Chevy	Pickup	3844	8		Mobilization		0101
D. Johnson	2	Project Engineer	Chevy	Pickup	3926					
R. Lee	8	Safety Manager	CAT 345	Excavator	R22811	12		Survey		0401
J. Borth		Foreman	Trimble GCS900	GPS for Exc.	3704	12		Site Set-Up		0201
I. McCauley	12	Operator	Doosan 225	breaker			10	Soil Excavation	X	0201
R. Malone		Operator	Doosan 225	Exc/thumb	R22802			ACM Excavation	X	0201
K. Pittser		Operator	CAT D6T	Bulldozer	R22801			Demolition	X	0201
		Operator	Trimble GCS900	GPS for Dozer	3655			Transport	X	0201
A. Macias	5	Truck Driver	CAT 966K	Loader	R22828			Import Trucking		0201
E. McKinley	12	Truck Driver	CAT 14H	Motor Patrol	3427			Backfill		0201
		Labor	CAT 621F	Water Pull	R22800	5				
		Labor	10,000 Gallon	Water Tower	3369	5				
				Loader/Forks						
			2,000 Gallon	Water Truck	R22804	12				
			CAT XQ20	25KW Genset	R22809	5				
			CAT DCA45	45KVA Genset	R22810	5				
			Neptune	Wheel Wash		5				
I. Seymor	3	Field Mechanic	Ford F650	Service Truck	3593	2		Equipment Fuel	X	2207
			Ford F650	Lube Truck	3700	1		Demobilize		0102

- Activity Desc:** Nita attended safety meeting at 6:00.
Had water truck on west patrol road for controlling dust during excavation. Water Pull controled dust on haul roads.
- Activity Desc:** Excavate & load impacted soils from the Tronox sump area.
Hauled to Apex for disposal.
- Activity Desc:** Walker set up wrapping stations to deploy liners inside trailers.
Trucks with ACM material were lined, loaded & wrapped for disposal at Apex.
Kris Everett with Logistic Solutions was on site to make determination of suspected asbestos.
Pitman line was removed in sections & individually wrapped in plastic.
- Activity Desc:** Service mechanic welded cutting edge across the teeth of the bucket to leave a smooth finish.
Called off the Doosan & breaker.

JOB Deliveries			
Supplier/Subcontract	On-site?	Quantity	Description of Delivery, Materials, Service, Notes
Impact Trucking			Import 0 loads of general fill.
Werdeco Trucking	Yes	5	Export ACM/Ditch Soils. 5 Loads of ACM & 17 Loads of ditch soils.
Diamondback			Pre Topo, Layout, Record Progress & Final As-built
Walker Specialty	Yes	10	ACM Removal. 8 Man Crew (sent half the crew home after 8 hours)
Geotek			Tested backfill density.
Canyon State Oil			Delivered 0 gallons of Fuel

Material Quantities											
Type II Road Mat'l	ACM	Total ACM	General Tons	Total General Tons	General Loads	Total Loads	Waste Loads	Total Lds	Off-Site Tn	TOTAL TONS	Water
0 / 0	102.00	307.00	0	0	0	0	17	21	351.00	430.00	4

Miscellaneous/Notes:

Signature: _____ Client rep: _____

2013 NERT Tronox Sump - Henderson Job # 1491501
Daily Force Account Worksheet
Estimated Costs

Description of Work Performed: See Activity Descriptions above							
Date Work Performed: October 3, 2013							
Labor (Employee)	Classification	Reg Hrs	OT Hrs	Reg Rate	OT Rate	Amount	WBS Coding
A. Buell	Project Director	-	N/A	\$ 155.31	N/A	\$ -	2201
A. Simmons	Project Manager	2.0	N/A	\$ 143.03	N/A	\$ 286.06	2201
R. Whitman	Const. Manager	8.0	N/A	\$ 137.06	N/A	\$ 1,096.48	2201
D. Johnson	Project Engineer	2.0	N/A	\$ 110.34	N/A	\$ 220.68	2201
R. Lee	Safety Manager	8.0	N/A	\$ 115.83	N/A	\$ 926.64	2202
J. Borth	Foreman	-	-	\$ 43.00	\$ 56.12	\$ -	0201
I. McCauley	Operator	4.0	8.0	\$ 40.21	\$ 52.01	\$ 160.84	0201
R. Malone	Operator	-	-	\$ 40.21	\$ 52.01	\$ -	0201
K. Pittser	Operator	-	-	\$ 40.21	\$ 52.01	\$ -	0201
	Operator	-	-	\$ 36.04	\$ 45.85	\$ -	0201
A. Macias	Truck Driver	5.0	-	\$ 31.87	\$ 39.70	\$ 159.35	0201
E. McKinley	Truck Driver	4.0	8.0	\$ 31.87	\$ 39.70	\$ 445.08	0201
	Labor	-	-	\$ 29.10	\$ 35.60	\$ -	0201
	Labor	-	-	\$ 29.10	\$ 35.60	\$ -	0201
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
		-	-	\$ -	\$ -	\$ -	
I. Seymor	Field Mechanic	-	3.0	\$ 43.00	\$ 56.12	\$ 168.36	2201
		-	-	\$ -	\$ -	\$ -	
Total Labor						\$ 3,463.49	

Equipment	Unit #	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding
Chevy Pickup	3775	8.0	-	\$ 9.54	\$ 5.09	\$ 76.32	2201
Chevy Pickup	3846	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy Pickup	3844	8.0	-	\$ 9.54	\$ 5.09	\$ 76.32	2201
Chevy Pickup	3926	-	-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345 Excavator	R22811	12.0	-	\$ 121.29	\$ 84.46	\$ 1,455.48	0201
Trimble GCS900 GPS for Exc.	3704	12.0	-	\$ 37.98	\$ 36.30	\$ 455.76	0201
Doosan 225 breaker	-	-	10.0	\$ 201.72	\$ 170.63	\$ 1,706.30	0201
Doosan 225 Exc/thumb	R22802	-	-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T Bulldozer	R22801	-	-	\$ 85.40	\$ 54.60	\$ -	0201
Trimble GCS900 GPS for Dozer	3655	-	-	\$ 37.98	\$ 36.30	\$ -	0201
CAT 966K Loader	R22828	-	-	\$ 126.92	\$ 85.31	\$ -	0201
CAT 14H Motor Patrol	3427	-	-	\$ 69.89	\$ 41.46	\$ -	0201
CAT 621F Water Pull	R22800	5.0	-	\$ 96.08	\$ 64.84	\$ 480.40	0201
10,000 Gallon Water Tower	3369	5.0	-	\$ 4.74	\$ 3.55	\$ 23.70	0201
	Loader/Forks	-	-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon Water Truck	R22804	12.0	-	\$ 57.17	\$ 35.49	\$ 686.04	0201
CAT XQ20 25KW Genset	R22809	5.0	-	\$ 12.27	\$ 4.95	\$ 61.35	0201
CAT DCA45 45KVA Genset	R22810	5.0	-	\$ 23.20	\$ 10.88	\$ 116.00	0201
Neptune Wheel Wash	-	5.0	-	\$ 60.69	\$ 58.17	\$ 303.45	0201
Ford F650 Service Truck	3593	2.0	-	\$ 42.42	\$ 35.83	\$ 84.84	0201
Ford F650 Lube Truck	3700	1.0	-	\$ 42.06	\$ 35.49	\$ 42.06	2207
Total Equipment						\$ 5,568.02	

Materials (Description)	Vendor	Cost	Tons	Amount	WBS Coding
Transport ACM to Apex	Werdeco Trucking	\$ 23.87	\$ 102.00	\$ 2,434.74	
Transport SW to Apex	Werdeco Trucking	\$ 10.13	\$ 350.88	\$ 3,554.41	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	0	\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
Total Materials				\$ 5,989.15	

Subcontractors	Work Performed	Cost	Hours	Amount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$ -	0201
Walker Specialty	ACM Removal. 8 Man Crew (sent half the crew home after 8 h	\$ 912.18	10	\$ 9,121.80	0201
Geotek	Tested backfill density.	\$ -		\$ -	0201
		\$ -		\$ -	
		\$ -		\$ -	
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -		\$ -	2207
Total Subcontractors				\$ 9,121.80	

Per Diems / Mileage	Days	Rate	Amount	WBS Coding
Andrew Simmons	0.25	\$ 106.62	\$ 26.66	2201
Richard Whitman	1	\$ 106.62	\$ 106.62	2201



**2013 NERT Tronox Sump - Henderson
Daily Report Job # 1491501**

REPORT BY:	R. Whitman	Weather:	(temp.,wind,precip.) 70 to 80 degrees Clear & breezy.	Date:	10/4/2013	
Safety Meeting	Yes	Safety Meeting Topic: Observations & Planned Activities.			Day:	Friday
Over-site: Nita Shinn (Environ) & Kris Everett (LS)				Shift:	6:00 16:00	

Personel on site			Equipment on Site					Activities		
Operator's Name	Hours	Position	Type	Desc	Equip #	Hours Op.	Standby	Site Operations	WBS	
A. Buell		Project Director	Chevy	Pickup	3775	8		Management	X	2201
A. Simmons	2	Project Manager	Chevy	Pickup	3846			Health & Safety	X	2202
R. Whitman	8	Const. Manager	Chevy	Pickup	3844	8		Mobilization		0101
D. Johnson	2	Project Engineer	Chevy	Pickup	3926					
R. Lee	8	Safety Manager	CAT 345	Excavator	R22811	10		Survey		0401
J. Borth		Foreman	Trimble GCS900	GPS for Exc.	3704	10		Site Set-Up		0201
I. McCauley	10	Operator	Doosan 225	breaker				Soil Excavation	X	0201
R. Malone		Operator	Doosan 225	Exc/thumb	R22802			ACM Excavation	X	0201
K. Pittser		Operator	CAT D6T	Bulldozer	R22801			Demolition		0201
		Operator	Trimble GCS900	GPS for Dozer	3655			Transport	X	0201
A. Macias	5	Truck Driver	CAT 966K	Loader	R22828			Import Trucking		0201
E. McKinley	10	Truck Driver	CAT 14H	Motor Patrol	3427			Backfill		0201
		Labor	CAT 621F	Water Pull	R22800	5				
		Labor	10,000 Gallon	Water Tower	3369	5				
				Loader/Forks						
			2,000 Gallon	Water Truck	R22804	10				
			CAT XQ20	25KW Genset	R22809	5				
			CAT DCA45	45KVA Genset	R22810	5				
			Neptune	Wheel Wash		5				
I. Seymor	1	Field Mechanic	Ford F650	Service Truck	3593			Equipment Fuel	X	2207
			Ford F650	Lube Truck	3700	1		Demobilize		0102

Activity Desc: Nita attended safety meeting at 6:00.
Had water truck on west patrol road for controlling dust during excavation. Water Pull controled dust on haul roads.

Activity Desc: Excavate & load impacted soils from the Tronox sump area.
Hauled to Apex for disposal.
Plugged the exposed end of the Pitman line at the property line with bricks & mortar.

Activity Desc: Walker set up wrapping stations to deploy liners inside trailers.
Trucks with ACM material were lined, loaded & wrapped for disposal at Apex.
Kris Everett with Logistic Solutions was on site to make determination of suspected asbestos.
Pitman line was removed in sections to the property line & individually wrapped in plastic. Loaded out in final load.

Activity Desc: Neff transport picked up the Doosan & breaker.
Ready for sampling. Survey for final excavation will be performed when sample results come back.
Cleaned up excavator & put fencing back up around excavation.

JOB Deliveries

Supplier/Subcontract	On-site?	Quantity	Description of Delivery, Materials, Service, Notes
Impact Trucking			Import 0 loads of general fill.
Werdeo Trucking	Yes	6	Export ACM/Ditch Soils. 1 Loads of ACM & 16 Loads of ditch soils.
Diamondback			Pre Topo, Layout, Record Progress & Final As-built
Walker Specialty	Yes	5	ACM Removal, 8 Man Crew (Half the crew for 10 hours)
Geotek			Tested backfill density.
Canyon State Oil			Delivered 0 gallons of Fuel

Material Quantities

Type II Road Mat'l	ACM	Total ACM	General Tons	Total General Tons	General Loads	Total Loads	Waste Loads	Total Lds	Off-Site Tn	TOTAL TONS	Water
0 / 0	19.00	325.00	0	0	0	0	19	40	361.00	791.00	3

Miscellaneous/Notes:

Signature: _____

Client rep: _____

2013 NERT Tronox Sump - Henderson Job # 1491501
Daily Force Account Worksheet
Estimated Costs

Description of Work Performed:		See Activity Descriptions above						
Date Work Performed:		October 4, 2013						
Labor (Employee)	Classification	Reg Hrs	OT Hrs	Reg Rate	OT Rate	Amount	WBS Coding	
A. Buell	Project Director	-	N/A	\$ 155.31	N/A	\$ -	2201	
A. Simmons	Project Manager	2.0	N/A	\$ 143.03	N/A	\$ 286.06	2201	
R. Whitman	Const. Manager	8.0	N/A	\$ 137.06	N/A	\$ 1,096.48	2201	
D. Johnson	Project Engineer	2.0	N/A	\$ 110.34	N/A	\$ 220.68	2201	
R. Lee	Safety Manager	8.0	N/A	\$ 115.83	N/A	\$ 926.64	2202	
J. Borth	Foreman	-	-	\$ 43.00	\$ 56.12	\$ -	0201	
I. McCauley	Operator	-	10.0	\$ 40.21	\$ 52.01	\$ 520.10	0201	
R. Malone	Operator	-	-	\$ 40.21	\$ 52.01	\$ -	0201	
K. Pittser	Operator	-	-	\$ 40.21	\$ 52.01	\$ -	0201	
	Operator	-	-	\$ 36.04	\$ 45.85	\$ -	0201	
A. Macias	Truck Driver	-	5.0	\$ 31.87	\$ 39.70	\$ 198.50	0201	
E. McKinley	Truck Driver	-	10.0	\$ 31.87	\$ 39.70	\$ 397.00	0201	
	Labor	-	-	\$ 29.10	\$ 35.60	\$ -	0201	
	Labor	-	-	\$ 29.10	\$ 35.60	\$ -	0201	
		-	-	\$ -	\$ -	\$ -		
		-	-	\$ -	\$ -	\$ -		
		-	-	\$ -	\$ -	\$ -		
		-	-	\$ -	\$ -	\$ -		
		-	-	\$ -	\$ -	\$ -		
I. Sevmor	Field Mechanic	-	1.0	\$ 43.00	\$ 56.12	\$ 56.12	2201	
		-	-	\$ -	\$ -	\$ -		

Total Labor \$ 3,701.58

Equipment	Unit #	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding
Chevy Pickup	3775	8.0	-	\$ 9.54	\$ 5.09	\$ 76.32	2201
Chevy Pickup	3846	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy Pickup	3844	8.0	-	\$ 9.54	\$ 5.09	\$ 76.32	2201
Chevy Pickup	3926	-	-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345	Excavator	10.0	-	\$ 121.29	\$ 84.46	\$ 1,212.90	0201
Trimble GCS900	GPS for Exc.	10.0	-	\$ 37.98	\$ 36.30	\$ 379.80	0201
Doosan 225	breaker	-	-	\$ 201.72	\$ 170.63	\$ -	0201
Doosan 225	Exc/thumb	-	-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T	Bulldozer	-	-	\$ 85.40	\$ 54.60	\$ -	0201
Trimble GCS900	GPS for Dozer	-	-	\$ 37.98	\$ 36.30	\$ -	0201
CAT 966K	Loader	-	-	\$ 126.92	\$ 85.31	\$ -	0201
CAT 14H	Motor Patrol	-	-	\$ 69.89	\$ 41.46	\$ -	0201
CAT 621F	Water Pull	5.0	-	\$ 96.08	\$ 64.84	\$ 480.40	0201
10,000 Gallon	Water Tower	5.0	-	\$ 4.74	\$ 3.55	\$ 23.70	0201
	Loader/Forks	-	-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon	Water Truck	10.0	-	\$ 57.17	\$ 35.49	\$ 571.70	0201
CAT XQ20	25KW Genset	5.0	-	\$ 12.27	\$ 4.95	\$ 61.35	0201
CAT DCA45	45KVA Genset	5.0	-	\$ 23.20	\$ 10.88	\$ 116.00	0201
Neptune	Wheel Wash	5.0	-	\$ 60.69	\$ 58.17	\$ 303.45	0201
Ford F650	Service Truck	-	-	\$ 42.42	\$ 35.83	\$ -	0201
Ford F650	Lube Truck	1.0	-	\$ 42.06	\$ 35.49	\$ 42.06	2207

Total Equipment \$ 3,344.00

Materials (Description)	Vendor	Cost	Tons	Amount	WBS Coding
Transport ACM to Apex	Werdeco Trucking	\$ 23.87	\$ 18.66	\$ 445.41	
Transport SW to Apex	Werdeco Trucking	\$ 10.13	\$ 361.03	\$ 3,657.23	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	0	\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
		\$ -		\$ -	

Total Materials \$ 4,102.65

Subcontractors	Work Performed	Cost	Hours	Amount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -	-	\$ -	0201
Walker Specialty	ACM Removal, 8 Man Crew (Half the crew for 10 hours)	\$ 912.18	5	\$ 4,560.90	0201
Geotek	Tested backfill density.	\$ -	-	\$ -	0201
		\$ -	-	\$ -	
		\$ -	-	\$ -	
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -	-	\$ -	2207

Total Subcontractors \$ 4,560.90

Per Diem / Mileage	Days	Rate	Amount	WBS Coding
Andrew Simmons	0.25	\$ 106.62	\$ 26.66	2201
Richard Whitman	1	\$ 106.62	\$ 106.62	2201



**2013 NERT Tronox Sump - Henderson
Daily Report Job # 1491501**

REPORT BY:	R. Whitman	Weather:	(temp.,wind,precip.) 80 to 90 degrees Clear & breezy.	Date:	10/5/2013	
Safety Meeting	No	Safety Meeting Topic :			Day:	Saturday
Oversite: (Environ) & (LS)					Shift:	

Personnel on site			Equipment on Site					Activities		
Operator's Name	Hours	Position	Type	Desc	Equip #	Hours Op.	Standby	Site Operations	WBS	
A. Buell		Project Director	Chevy	Pickup	3775			Management	2201	
A. Simmons		Project Manager	Chevy	Pickup	3846			Health & Safety	2202	
R. Whitman		Const. Manager	Chevy	Pickup	3844			Mobilization	0101	
D. Johnson		Project Engineer	Chevy	Pickup	3926					
R. Lee		Safety Manager	CAT 345	Excavator	R22811			Survey	0401	
J. Borth		Foreman	Trimble GCS900	GPS for Exc.	3704			Site Set-Up	0201	
I. McCauley		Operator	Doosan 225	breaker				Soil Excavation	0201	
R. Malone		Operator	Doosan 225	Exc/thumb	R22802			ACM Excavation	0201	
K. Pittser		Operator	CAT D6T	Bulldozer	R22801			Demolition	0201	
		Operator	Trimble GCS900	GPS for Dozer	3655			Transport	0201	
A. Macias		Truck Driver	CAT 966K	Loader	R22828			Import Trucking	0201	
E. McKinley		Truck Driver	CAT 14H	Motor Patrol	3427			Backfill	0201	
		Labor	CAT 621F	Water Pull	R22800					
		Labor	10,000 Gallon	Water Tower	3369					
				Loader/Forks						
			2,000 Gallon	Water Truck	R22804					
			CAT XQ20	25KW Genset	R22809					
			CAT DCA45	45KVA Genset	R22810					
			Neptune	Wheel Wash						
I. Seymor		Field Mechanic	Ford F650	Service Truck	3593			Equipment Fuel	2207	
			Ford F650	Lube Truck	3700			Demobilize	0102	

Activity Desc:	
Activity Desc:	
Activity Desc:	
Activity Desc:	

JOB Deliveries			
Supplier/Subcontract	On-site?	Quantity	Description of Delivery, Materials, Service, Notes
Impact Trucking			Import 0 loads of general fill.
Werdeco Trucking			Export ACM/Ditch Soils. 1 Loads of ACM & 16 Loads of ditch soils.
Diamondback			Pre Topo, Layout, Record Progress & Final As-built
Walker Specialty			ACM Removal. 8 Man Crew
Geotek			Tested backfill density.
Canyon State Oil			Delivered 0 gallons of Fuel

Material Quantities											
Type II Road Mat'l	ACM	Total ACM	General Tons	Total General Tons	General Loads	Total Loads	Waste Loads	Total Lds	Off-Site Tn	TOTAL TONS	Water
0 / 0	0	235.97	0	0	0	0	0	37	0	598.75	3

Miscellaneous/Notes:

Signature: _____ Client rep: _____

2013 NERT Tronox Sump - Henderson Job # 1491501
Daily Force Account Worksheet
Estimated Costs

Description of Work Performed:		See Activity Descriptions above						
Date Work Performed:		October 5, 2013						
Labor (Employee)	Classification	Reg Hrs	OT Hrs	Reg Rate	OT Rate	Amount	WBS Coding	
A. Buell	Project Director	-	N/A	\$ 155.31	N/A	\$ -	2201	
A. Simmons	Project Manager	-	N/A	\$ 143.03	N/A	\$ -	2201	
R. Whitman	Const. Manager	-	N/A	\$ 137.06	N/A	\$ -	2201	
D. Johnson	Project Engineer	-	N/A	\$ 110.34	N/A	\$ -	2201	
R. Lee	Safety Manager	-	N/A	\$ 115.83	N/A	\$ -	2202	
J. Borth	Foreman	-	\$ 43.00	\$ 56.12	\$ -	\$ -	0201	
I. McCauley	Operator	-	\$ 40.21	\$ 52.01	\$ -	\$ -	0201	
R. Malone	Operator	-	\$ 40.21	\$ 52.01	\$ -	\$ -	0201	
K. Pittser	Operator	-	\$ 40.21	\$ 52.01	\$ -	\$ -	0201	
	Operator	-	\$ 36.04	\$ 45.85	\$ -	\$ -	0201	
A. Macias	Truck Driver	-	\$ 31.87	\$ 39.70	\$ -	\$ -	0201	
E. McKinley	Truck Driver	-	\$ 31.87	\$ 39.70	\$ -	\$ -	0201	
	Labor	-	\$ 29.10	\$ 35.60	\$ -	\$ -	0201	
	Labor	-	\$ 29.10	\$ 35.60	\$ -	\$ -	0201	
		-	\$ -	\$ -	\$ -	\$ -	-	
		-	\$ -	\$ -	\$ -	\$ -	-	
		-	\$ -	\$ -	\$ -	\$ -	-	
		-	\$ -	\$ -	\$ -	\$ -	-	
		-	\$ -	\$ -	\$ -	\$ -	-	
		-	\$ -	\$ -	\$ -	\$ -	-	
		-	\$ -	\$ -	\$ -	\$ -	-	
I. Seymor	Field Mechanic	-	\$ 43.00	\$ 56.12	\$ -	\$ -	2201	
		-	\$ -	\$ -	\$ -	\$ -	-	

Total Labor \$ -

Equipment	Unit #	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding
Chevy	Pickup	3775	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3846	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3844	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3926	-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345	Excavator	R22811	-	\$ 121.29	\$ 84.46	\$ -	0201
Trimble GCS900	GPS for Exc.	3704	-	\$ 37.98	\$ 36.30	\$ -	0201
Doosan 225	breaker	-	-	\$ 201.72	\$ 170.63	\$ -	0201
Doosan 225	Exc/thumb	R22802	-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T	Bulldozer	R22801	-	\$ 85.40	\$ 54.60	\$ -	0201
Trimble GCS900	GPS for Dozer	3655	-	\$ 37.98	\$ 36.30	\$ -	0201
CAT 966K	Loader	R22828	-	\$ 126.92	\$ 85.31	\$ -	0201
CAT 14H	Motor Patrol	3427	-	\$ 69.89	\$ 41.46	\$ -	0201
CAT 621F	Water Pull	R22800	-	\$ 96.08	\$ 64.84	\$ -	0201
10,000 Gallon	Water Tower	3369	-	\$ 4.74	\$ 3.55	\$ -	0201
	Loader/Forks	-	-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon	Water Truck	R22804	-	\$ 57.17	\$ 35.49	\$ -	0201
CAT XQ20	25KW Genset	R22809	-	\$ 12.27	\$ 4.95	\$ -	0201
CAT DCA45	45KVA Genset	R22810	-	\$ 23.20	\$ 10.88	\$ -	0201
Neptune	Wheel Wash	-	-	\$ 60.69	\$ 58.17	\$ -	0201
Ford F650	Service Truck	3593	-	\$ 42.42	\$ 35.83	\$ -	0201
Ford F650	Lube Truck	3700	-	\$ 42.06	\$ 35.49	\$ -	2207

Total Equipment \$ -

Materials (Description)	Vendor	Cost	Tons	Amount	WBS Coding
Transport ACM to Apex	Werdeco Trucking	\$ 23.87	0	\$ -	
Transport SW to Apex	Werdeco Trucking	\$ 10.13	0	\$ -	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	0	\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
		\$ -		\$ -	

Total Materials \$ -

Subcontractors	Work Performed	Cost	Hours	Amount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$ -	0201
Walker Specialty	ACM Removal. 8 Man Crew	\$ 912.18		\$ -	0201
Geotek	Tested backfill density.	\$ -		\$ -	0201
		\$ -		\$ -	
		\$ -		\$ -	
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -		\$ -	2207

Total Subcontractors \$ -

Per Diems / Mileage	Days	Rate	Amount	WBS Coding
Andrew Simmons		\$ 106.62	\$ -	2201
Richard Whitman		\$ 106.62	\$ -	2201

2013 NERT Tronox Sump - Henderson Job # 1491501
Daily Force Account Worksheet Summary
Estimated Costs for Week Ending 10/6/2013

Date Work Performed:

Labor (Employee)	Classification	Reg Hrs	OT Hrs	Reg Rate	OT Rate	Amount	WBS Coding
A. Buell	Project Director	-	N/A	\$ 155.31	N/A	\$ -	2201
A. Simmons	Project Manager	16.0	N/A	\$ 143.03	N/A	\$ 2,288.48	2201
R. Whitman	Superintendent	33.0	N/A	\$ 137.06	N/A	\$ 4,522.98	2201
D. Johnson	Project Engineer	16.0	N/A	\$ 110.34	N/A	\$ 1,765.44	2201
R. Lee	Safety Manager	32.0	N/A	\$ 115.83	N/A	\$ 3,706.56	2202
J. Borth	Foreman	-	-	\$ 43.00	\$ 56.12	\$ -	0201
I. McCauley	Operator	25.0	18.0	\$ 40.21	\$ 52.01	\$ 1,941.43	0201
R. Malone	Operator	-	-	\$ 40.21	\$ 52.01	\$ -	0201
K. Pittser	Operator	-	-	\$ 40.21	\$ 52.01	\$ -	0201
A. Macias	Driver	11.0	5.0	\$ 31.87	\$ 39.70	\$ 549.07	0201
E. McKinley	Driver	25.0	18.0	\$ 31.87	\$ 39.70	\$ 1,511.35	0201
	Laborer	-	-	\$ 29.10	\$ 35.60	\$ -	0201
	Laborer	-	-	\$ 29.10	\$ 35.60	\$ -	0201
		-	-	\$ -	\$ -	\$ -	
I. Seymor	Field Mechanic	1.0	4.0	\$ 43.00	\$ 56.12	\$ 267.48	2201
		-	-	\$ -	\$ -	\$ -	
Total Labor						\$ 16,552.79	

Equipment	Unit #	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding
Chevy Pickup	3775	32.0	-	\$ 9.54	\$ 5.09	\$ 305.28	2201
Chevy Pickup	3846	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy Pickup	3844	33.0	-	\$ 9.54	\$ 5.09	\$ 314.82	2201
Chevy Pickup	3926	-	-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345 Excavator	R22811	42.0	2.0	\$ 121.29	\$ 84.46	\$ 5,263.10	0201
Trimble GCS900 for Excavator	3704	42.0	2.0	\$ 37.98	\$ 36.30	\$ 1,667.76	0201
Doosan 210 with Breaker		1.0	29.0	\$ 201.72	\$ 170.63	\$ 5,149.99	0201
Doosan 210 with Thumb		-	-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T Bulldozer	R22801	1.0	-	\$ 85.40	\$ 54.60	\$ 85.40	0201
Trimble GCS900 for Bulldozer	3655	1.0	-	\$ 37.98	\$ 36.30	\$ 37.98	0201
CAT 966K Front-end Loader	R22828	-	-	\$ 126.92	\$ 85.31	\$ -	0201
CAT 14H Motor Patrol	3427	1.0	-	\$ 69.89	\$ 41.46	\$ 69.89	0201
CAT 621F Water Pull	R22800	15.0	-	\$ 96.08	\$ 64.84	\$ 1,441.20	0201
10,000 Gallon Water Tower	3369	20.0	-	\$ 4.74	\$ 3.55	\$ 94.80	0201
		-	-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon Water Truck	R22804	43.0	2.0	\$ 57.17	\$ 35.49	\$ 2,529.29	0201
CAT XQ20 Generator	R22809	20.0	-	\$ 12.27	\$ 4.95	\$ 245.40	0201
CAT DCA45 Generator	R22810	15.0	-	\$ 23.20	\$ 10.88	\$ 348.00	0201
Neptune Wheel Wash		15.0	-	\$ 60.69	\$ 58.17	\$ 910.35	0201
Ford F650 Service Truck	3593	2.0	-	\$ 42.42	\$ 35.83	\$ 84.84	2201
Ford F650 Lube Truck	3700	3.0	-	\$ 42.06	\$ 35.49	\$ 126.18	2201
Total Equipment						\$ 18,674.28	

Subcontractors	Work Performed	Cost	Hours	Amount	WBS Coding
Walker Specialty Crew	ACM Removal	\$ 912.18	27.0	\$ 24,628.86	0201
Diamondback	Surveyor	\$ -	-	\$ -	0401
Geotek	Density Testing	\$ -	-	\$ -	0201
Total Subcontractors				\$ 24,628.86	

Materials (Description)	Vendor	Cost	Ton	Amount	WBS Coding
Transport ACM to Apex	Werdeco Trucking	\$ 23.87	325	\$ 7,757.75	0201
Transport SW to Apex	Werdeco Trucking	\$ 10.13	791	\$ 8,012.83	0201
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	-	\$ -	0201
Dust Permit Mod	Clark County	\$ 225.00	1	\$ 225.00	0101
Mob Doosan w/ Breaker	Neff Rental	\$ 426.67	1	\$ 426.67	0101
Total Materials				\$ 16,422.25	

Per Diems / Mileage	Days	Rate	Amount	WBS Coding
Andrew Simmons	2.00	\$ 106.62	\$ 213.24	2201
Richard Whitman	4.25	\$ 106.62	\$ 453.14	2201
Dennis Johnson	2.0	\$ 106.62	\$ 213.24	2201
Reggie Lee	4.0	\$ 106.62	\$ 426.48	2201
John Borth	-	\$ 94.77	\$ -	2201
Russ Malone	-	\$ 94.77	\$ -	2201
Kevin Pittser	-	\$ 94.77	\$ -	2201
Ivan Seymor	-	\$ 94.77	\$ -	2201
Ike McCauley	4.25	\$ 94.77	\$ 402.77	2201
Total per diems				\$ 1,708.87

Weekly Force Account Total **\$ 77,987.05**

Appendix D
Asbestos Survey and Visual Clearance Report



July 14, 2011

Mr. John Pekala
ENVIRON International Corporation
560 West Lake Mead Parkway
Henderson, Nevada 89015

**Regarding: *Limited Asbestos Survey-RZ-E-16B*
 Nevada Environmental Response Trust
 560 West Lake Mead Parkway
 Henderson, Nevada 89015
 Project – CON111106**

Dear Mr. Pekala,

Logistical Solutions, LLC (LoSo) is pleased to provide ENVIRON International Corporation the results of the *Limited Asbestos Survey* conducted for the Nevada Environmental Response Trust site located at 560 West Lake Mead Parkway in Henderson, Nevada. The purpose of the limited asbestos survey (LAS) was to identify, within reason, the presence and location of potential asbestos-containing materials (ACMs) within Remediation Zone RZ-E-16B (project area).

The scope-of-work performed as part of this LAS included a visual survey of the project area, bulk-material sample collection of suspect ACMs, laboratory analysis, and preparation of this report.

ASBESTOS REGULATIONS

EPA – National Emission Standard for Hazardous Air Pollutants (NESHAP)-Asbestos

The *United States Environmental Protection Agency* (EPA) regulates the emission of asbestos in Title 40 of the *Code of Federal Regulations* (CFR), Chapter I, Subchapter C, Part 61, Subpart M, *National Emissions Standards for Hazardous Air Pollutants* (NESHAP). The NESHAP provides regulatory standards for the control of asbestos emissions during the removal and/or abatement of regulated asbestos containing material (RACM).

RACM is defined by NESHAP as meeting any of the following definitions: 1) a friable asbestos material; 2) a Category I non-friable ACBM that has become friable; 3) a Category I non-friable asbestos containing building materials (ACBM) that will be or has been subject to sanding, grinding, cutting, or abrading, or 4) a Category II non-friable ACBM that has a high probability of becoming or has become crumbled, pulverized or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

The NESHAP provides the following definitions for friable, non-friable, Category I non-friable, and Category II non-friable asbestos material:

- ◆ **Friable asbestos material** means any material containing more than one percent asbestos.... that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure.
- ◆ **Non-friable asbestos material** means any material containing more than one percent asbestos.... that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand

pressure.

- ◆ **Category I non-friable asbestos-containing material (ACM)** means asbestos-containing packings, gaskets, resilient floor covering, and asphalt roofing products containing more than one percent asbestos.
- ◆ **Category II non-friable ACM** means any material, excluding Category I non-friable ACM, containing more than one percent asbestos...that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

According to the NESHAP, RACM must be removed prior to a demolition or renovation of a building. The NESHAP also requires State and local notifications, proper handling, and proper disposal of RACM that may be removed or disturbed during any demolition, repair, or maintenance activities involving the RACM.

OSHA - General Construction Standard

The *Occupational Safety and Health Administration (OSHA)* regulates exposure to airborne asbestos for construction workers in Title 29 CFR, Part 1926.1101, *General Construction Standard (GCS)*. The GCS regulates exposure in all work as defined in 29 CFR 1910.12(b), including, but not limited to the following:

- ◆ Demolition or salvage of structures where asbestos is present;
- ◆ Removal or encapsulation of materials containing asbestos;
- ◆ Construction, alteration, repair, maintenance, or renovation of structures, substrates, or portions thereof, that contain asbestos;
- ◆ Installation of products containing asbestos;
- ◆ Asbestos spill/emergency cleanup;
- ◆ Transportation, disposal, storage, containment of and housekeeping activities involving asbestos or products containing asbestos, on the site or location at which construction activities are performed;
- ◆ Coverage under this standard shall be based on the nature of the work operation involving asbestos exposure; and
- ◆ This section does not apply to asbestos-containing asphalt roof coatings, cements, and mastics.

The GCS, which requires proper training of workers prior to the commencement of work, classifies asbestos-related work under this section into four classes:

- ◆ **Class I** – activities involving the removal of thermal system insulation (TSI) and surfacing asbestos-containing material (ACM) and potential asbestos-containing material (PACM);
- ◆ **Class II** – activities involving the removal of ACM which is not thermal system insulation or surfacing material. This includes, but is not limited to, the removal of asbestos-containing wallboard, floor tile and sheeting, roofing and siding shingles, and construction mastics;
- ◆ **Class III** – repair and maintenance operations, where “ACM” including TSI ACM, surfacing ACM, and PACM may be disturbed; and
- ◆ **Class IV** – maintenance and custodial activities during which employees contact, but do not disturb, ACM or PACM and activities to clean up dust, waste, and debris resulting from Class I, Class II, and Class III activities.

LIMITED ASBESTOS SURVEY

Material Survey

On July 12, 2011, a Nevada-licensed asbestos building inspector visually surveyed the proposed excavation area within RZ-E-16B for the presence of potential ACMs. A photograph of each bulk sample

location is included within the attached photograph log. The potential ACMs identified within the project at the time of the survey were as follows:

- ◆ Soil; and
- ◆ Potential ACM.

A total of 5 bulk material samples were collected. The suspect ACM samples were placed in plastic Zip-Loc™ bags. The bags were sealed, labeled, and transported to Forensic Analytical Laboratories, Inc., a National Voluntary Laboratory Accreditation Program (NVLAP) laboratory. The bulks samples were analyzed for asbestos using the method specified in Appendix E, Subpart E, 40 Code of Federal Regulations, Part 763, Section 1, Polarized Light Microscopy (PLM).

Results, Discussion, and Recommendations

Bulk samples BD-3, BD-4, and BD-5 reported ACM concentrations of 99 percent, 10 percent, and 69 percent, respectively. Asbestos was not detected (ND) in the remaining bulk samples or was only reported in a trace percentage (B-1). A copy of the analytical reports and chain-of-custody documentation indicating the sample locations and material descriptions are attached.

The homogenous beige fibrous TSI was identified as ACM. According to OSHA 29 CFR 1926.1101(b), TSI is defined as ACM applied to pipes, fittings, boilers, breeching, tanks, ducts or other structural components to prevent heat loss or gain. TSI is a friable material and is classified as RACM, as described in NESHAP 40 CFR 61, Subpart M. The following RACMs were identified:

- ◆ Beige fibrous material in soil.

A Nevada-licensed asbestos abatement contractor must be used to remove and dispose of RACM prior to disturbance of the materials. Asbestos work activities are categorized according to OSHA 29 CFR 1926.1101(b). Class I asbestos work is defined as activities involving the removal of TSI ACM, surfacing ACM, and PACM. Class II asbestos work means activities involving the removal of ACM which is not thermal system insulation or surfacing material. This includes, but is not limited to, the removal of asbestos-containing wallboard, floor tile and sheeting, roofing and siding shingles, and construction mastics. Class III asbestos work involves repair and maintenance operations, where ACM, including TSI and surfacing ACM and PACM, is likely to be disturbed, and Class IV asbestos work means maintenance and custodial activities during which employees contact but do not disturb ACM or PACM and activities to clean up dust, waste, and debris resulting from Class I, Class II, and Class III activities.

Federal law requires that asbestos control professionals must be trained on how to properly inspect for the presence of asbestos and to repair and remove it. Training for asbestos abatement professionals is required under AHERA, which is the authority under which EPA issued the EPA Asbestos Model Accreditation Plan (MAP) (40 CFR Part 763, Appendix C to Subpart E). Individuals seeking accreditation as asbestos abatement workers shall complete at least a 4-day training course as outlined in 40 CFR Part 763, Appendix C to Subpart E. The 4-day worker training course shall include lectures, demonstrations, and at least 14 hours of hands-on training.

After ACM removal is considered complete, a post-abatement visual assessment conducted by a Nevada-licensed asbestos project monitor is required to establish that removal has been achieved.

Limitations

This report has been prepared for the exclusive use of ENVIRON International Corporation. The findings presented herein are based upon observations of our field personnel, points of investigation, and results of laboratory tests performed by Forensic Analytical Laboratories, Inc. All accessible areas of the excavation zone as part of this survey were attempted to be visually surveyed for the presence of potential asbestos-containing materials. However, it is possible that not all potential ACMs located within the excavation zone were identified in this survey.

Our services were performed in accordance with the generally accepted standard of practice at the time this report was written. No warranty, expressed or implied, is intended.

LoSo appreciates being of service to ENVIRON International Corporation on this project. If you have any questions or require additional information, please contact us at (702) 596-2021.

Sincerely,

Logistical Solutions, LLC



Ty L. Salazar, CEM, OHST
Operations Manager
Nevada Asbestos Consultant No. IM-1413

Attachments: Photograph Log
 Aerial Photo with Sampling Locations
 Analytical Reports and Chain-of-Custody Documentation

LoSo appreciates being of service to ENVIRON International Corporation on this project. If you have any questions or require additional information, please contact us at (702) 596-2021.

Sincerely,

Logistical Solutions, LLC



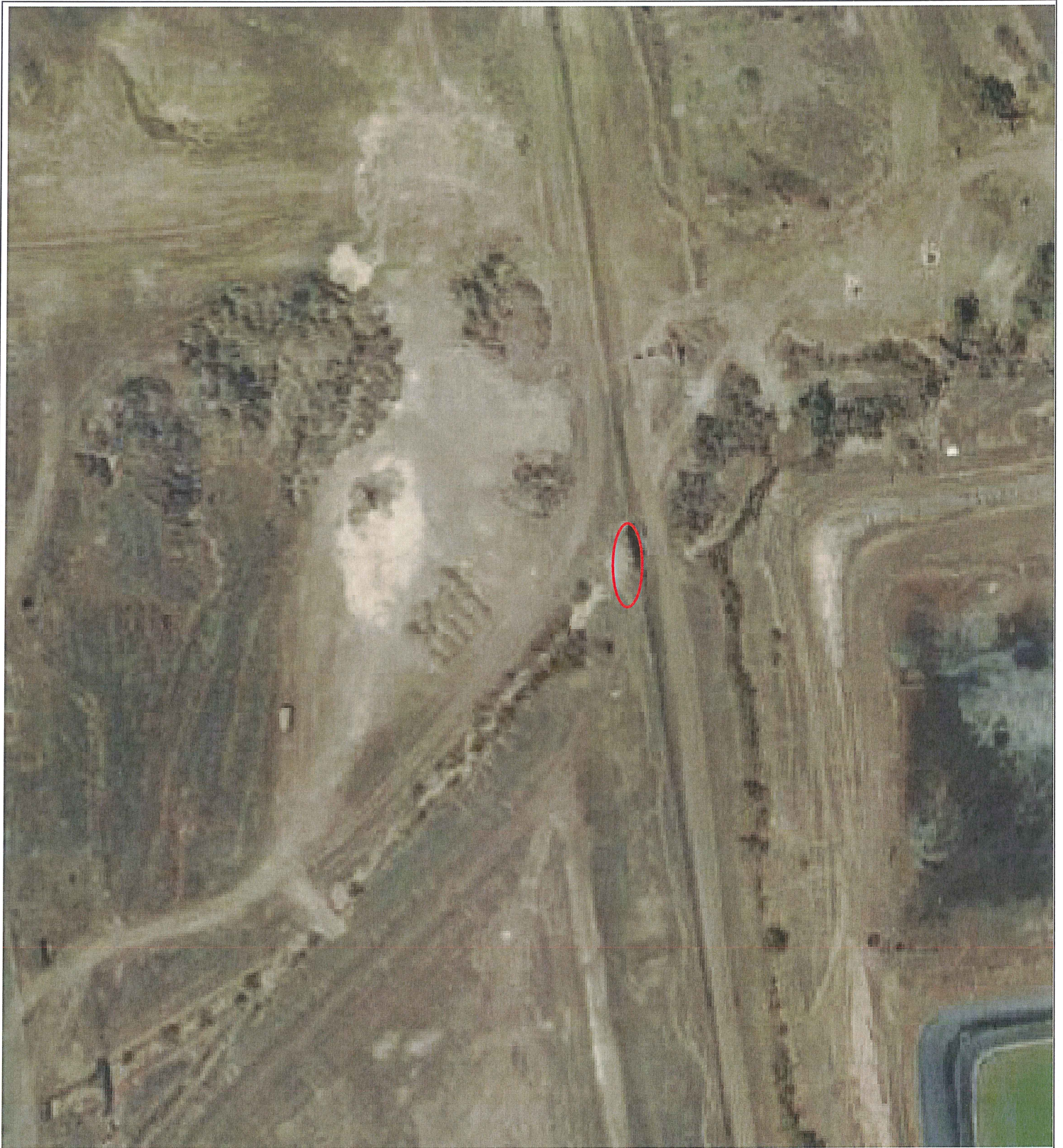
Ty L. Salazar, CEM, OHST
Operations Manager
Nevada Asbestos Consultant No. IM-1413

Attachments: Photograph Log
 Aerial Photo with Sampling Locations
 Analytical Reports and Chain-of-Custody Documentation

**Photograph Log
Bulk Sample Locations**



Sample ID	Color	Description	Location	Percent Asbestos	Friable or Non-Friable	Estimated Quantities	Condition
BD-001	Brown	Soil	RZ-E-16B	Trace	Friable	~ 100 sq/ft	Poor
BD-002	Off-White	Debris	RZ-E-16B	ND	Friable	~ 100 sq/ft	Poor
BD-003	Beige	TSI Material	RZ-E-16B	99%	Friable	~ 100 sq/ft	Poor
BD-004	Beige	TSI Material	RZ-E-16B	10%	Friable	~ 100 sq/ft	Poor
BD-005	Beige	TSI Material	RZ-E-16B	69%	Friable	~ 100 sq/ft	Poor



LEGEND

N

Soil and Debris PACM



Approximate Scale: 1 inch ~ 75 feet



SITE PLAN

Nevada Environmental Response Trust
RZ-E-16B

Project Number
CON111106





Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Logistical Solutions, LLC
Ty Salazar
4780 W. Ann Road
Suite 5-237
N. Las Vegas, NV 89031

Client ID: L1349
Report Number: B151650
Date Received: 07/12/11
Date Analyzed: 07/13/11
Date Printed: 07/13/11
First Reported: 07/13/11

Job ID/Site: CON111106; NERT - Beta Ditch/Loading Ramp (R2-C); NERT Site, Henderson, NV
Date(s) Collected: 07/12/2011

FALI Job ID: L1349
Total Samples Submitted: 10
Total Samples Analyzed: 10

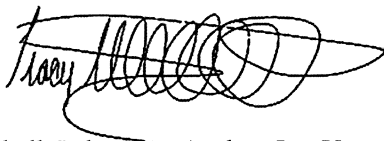
Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
BD-001	01033500						
Layer: Brown Soil		Chrysotile	Trace				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (2 %)							
BD-002	01033501						
Layer: Off-White Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
BD-003	01033502						
Layer: Beige Fibrous Material		Chrysotile	99 %				
Total Composite Values of Fibrous Components:		Asbestos (99%)					
BD-004	01033503						
Layer: Brown Soil			ND				
Layer: Beige Fibrous Debris		Chrysotile	99 %				
Total Composite Values of Fibrous Components:		Asbestos (10%)					
BD-005	01033504						
Layer: Beige Soil			ND				
Layer: Beige Fibrous Material		Chrysotile	99 %				
Total Composite Values of Fibrous Components:		Asbestos (69%)					
Cellulose (Trace)							
TF-001	01033505						
Layer: Grey Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
TF-002	01033506						
Layer: Beige Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (15 %) Synthetic (5 %)							

Client Name: Logistical Solutions, LLC

Report Number: B151650

Date Printed: 07/13/11

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
TF-003	01033507						
Layer: Beige Semi-Fibrous Material							ND
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (15 %) Synthetic (5 %)							
LA-001	01033508						
Layer: Black Non-Fibrous Material							ND
Layer: Grey Non-Fibrous Material							ND
Layer: Off-White Paint							ND
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
LA-003	01033509						
Layer: Black Non-Fibrous Material							ND
Layer: Grey Paint							ND
Layer: Off-White Fibrous Material							ND
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace) Fibrous Glass (2 %)							



Tracy Mitchell, Laboratory Analyst, Las Vegas Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by Forensic Analytical Laboratories Inc. (FALI) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by FALI to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by FALI. The client is solely responsible for the use and interpretation of test results and reports requested from FALI. Forensic Analytical Laboratories Inc. is not able to assess the degree of hazard resulting from materials analyzed. FALI reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.

December 3, 2013

Mr. James Hiller
ENVIRON International Corporation
2200 Powell Street
Emeryville, California 94608



Regarding: ***Visual Inspection Report***
 RZ-E-16B Soil Excavation Area
 Nevada Environmental Response Trust Site
 510 4th Street
 Henderson, Nevada 89015
 Project No. CON131029

Dear Mr. Hiller,

Logistical Solutions (Logistical) is pleased to provide ENVIRON International Corporation (ENVIRON) this *Visual Inspection Report of the RZ-E-16B Soil Excavation Area* conducted for the Nevada Environmental Response Trust site located at 510 4th Street in Henderson, Nevada. The purpose of the visual inspection was to identify, within reason, the presence and location of potential asbestos-containing materials (ACMs) that were deposited within this portion of the *Beta Ditch* and to remove the ACMs that were identified during a limited asbestos inspection conducted by Logistical in July of 2011.

Envirocon, Inc. (Envirocon) was retained by ENVIRON to excavate soil and debris from within RZ-E-16B. Walker Specialty Construction Inc. (Walker) was retained by Envirocon to conduct ACM removal. Soil excavation was conducted on October 2 - 4, 2013. Logistical observed soil excavation activities and determined ACM-impacted soil versus non-ACM-impacted soil. The materials excavated from RZ-E-16B were briefly staged for loading using an excavator within the asbestos control area. Soil with potential ACM was placed into polyethylene-lined end-dump trucks for transportation and disposal at Apex Regional Landfill (Apex). All excavated soil was adequately wetted during excavation and loading activities. Non-ACM soil was placed in the end-dump trucks without a polyethylene liner and was also hauled to Apex for disposal. A site plan is attached and depicts the general location of the soil excavation area.

Visual Site Inspection

A visual inspection of the entire excavation area RZ-E-16B was conducted on October 4, 2013 by Logistical. The regulated asbestos zone was assessed for signs of visible ACM debris. Asbestos and/or asbestos containing debris were not observed during the inspection of the regulated asbestos zone.

The visual inspection was conducted in a manner consistent with the recommendations specified in the American Society for Testing and Materials (ASTM) E1368-05^{e1} standard. This report applies only to the subject areas at the time of our inspection.

Air Sampling

One air sample was collected from adjacent the work area each day of asbestos removal and soil excavation activities. A total of three samples were collected. Each air sample was collected using a *Gillian® BDX Abatement Air Sampler*. The start and finish air flows were confirmed using a calibrated rotometer to determine sample volumes. The air sample flow rates ranged from 2.0 to 2.2 liters per minute with total sample volumes ranging from 645 to 1,371 liters. The purpose of the air sampling was to determine if asbestos fibers were released in excess of Occupational Safety & Health Administration's (OSHA's) Permissible Exposure Limit (PEL) of 0.10 fiber per cubic centimeter (Fibers/cc) adjacent to the regulated asbestos zone. The samples were sealed, labeled, and transported to Forensic Analytical Laboratories, Inc., a National Voluntary Laboratory Accreditation Program (NVLAP) laboratory using standard chain-of-custody protocol. Each sample was analyzed for asbestos fibers using *Point Count*

Method (PCM) in accordance to NIOSH 7400 Method, Issue 2, 15 August 1994, counting rules 'A'. The following is a summary of the analytical results of the air samples collected:

- 10/02/2013 Sample AS-01 <0.003 Fibers/cc
- 10/03/2013 Sample AS-02 <0.002 Fibers/cc
- 10/04/2013 Sample AS-03 <0.003 Fibers/cc

As the results depict above, asbestos fibers were not identified in the three air samples collected during asbestos removal activities in excess of OSHA's PEL of 0.10 Fibers/cc. The analytical data and chain-of-custody documentation is attached.

Limitations

This report has been prepared for the exclusive use of ENVIRON International Corporation, as it applies to the subject regulated asbestos zone at the project area. Logistical is not responsible for any claims and damages associated with interpretation of available information. This assessment should not be regarded as a guarantee that future exposure to the airborne asbestos fibers will not occur.

Our services were performed in accordance with the generally accepted standard of practice at the time this report was written. No warranty, expressed or implied, is intended.

Logistical appreciates being of service to ENVIRON International Corporation on this project. If you have any questions or require additional information, please contact us at (702) 596-2021.

Sincerely,

Logistical Solutions, LLC



Kristopher Everett, CEM
Project Manager
NV Asbestos Consultant No. IM-1569

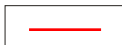
Attachments: Site Plan
Analytical Report and Chain-of-Custody Documentation



LEGEND

N

Soil and Debris PACM



Approximate Scale: 1 inch ~ 75 feet



SITE PLAN

Nevada Environmental Response Trust

RZ-E-16B

Project Number
CON131029





Airborne Fiber Analysis

NIOSH 7400 Method, Issue 2, 15 August 1994, counting rules 'A'

Logistical Solutions, LLC
Kris Everett
4780 W. Ann Road
Suite 5-237
N. Las Vegas, NV 89031

Client ID: L1349
Report Number: A164244
Date Received: 10/04/13
Date Analyzed: 10/08/13
Date Printed: 10/08/13
First Reported: 10/08/13

Job ID/Site: CON131029; NERT Site - Henderson, Nevada; 510 4th Street, Henderson, Nevada 89015

FALI Job ID: L1349
Total Samples Submitted: 3
Total Samples Analyzed: 3

Sample ID	Lab Number	Date Collected	Volume (L)	Fibers	Fields	Fibers/mm ²	LOD F/cc	Fibers/cc
AS-01	01062321	10/04/13	1040.0	1.5	100	<7.0	0.003	< 0.003
Location: RZ-E-16B/Area Sample								
AS-02	01062322	10/04/13	1370.6	3.0	100	<7.0	0.002	< 0.002
Location: RZ-E-16B/Area Sample								
AS-03	01062323	10/04/13	945.0	0.0	100	<7.0	0.003	< 0.003
Location: RZ-E-16B/Area Sample								

Rachel Kolberg, Laboratory Analyst, Las Vegas Laboratory

Intralaboratory Relative Standard Deviation (Sr) per 100 graticule fields: 5 to 20 fibers: 0.514; >20 to 50 fibers: 0.608; >50 to 100 fibers: 0.488

Analytical results and reports are generated by Forensic Analytical Laboratories Inc. (FALI) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by FALI to any third party without prior written request from client. This report applies only to the sample(s) tested and results are based upon sample information provided by the client. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by FALI. The client is solely responsible for the use and interpretation of test results and reports requested from Forensic Analytical. This report must not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government. FALI is not able to assess the degree of hazard resulting from materials analyzed. FALI reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. Samples are not blank corrected unless otherwise noted. All samples were received in acceptable condition unless otherwise noted.



Client Name & Address: **Logistical Solutions, LLC**
 4780 West Ann Road #5-237
 North Las Vegas, NV 89031

PO/Job#: **CON131029** Date: **10/4/13**

Turn Around Time: Same Day / 1Day / 2Day / 3Day / 4Day / 5Day

PCM: NIOSH 7400A / NIOSH 7400B Rotometer

PLM: Standard / Point Count **400** / 1000 / CARB 435

Contact: **Kris Everett**

TEM Air: AHERA / Yamate2 / NIOSH 7402

TEM Bulk: Quantitative / Qualitative / Chatfield

TEM Water: Potable / Non-Potable / Weight %

TEM Microvac: Qual(+/-) / D5755(str/area) / D5756(str/mass)

Phone: **(702) 340-2594** Fax: **(702) 974-1776**

E-mail: **keverett@losnow.com**

IAQ Particle Identification (PLM LAB) PLM Opaques/Soot

Particle Identification (TEM LAB) Special Project

Site: **NERT Site - Henderson, Nevada**

Metals Analysis: Method: _____

Site Location: **510 4th Street, Henderson, Nevada 89015**

Matrix: _____

Analytes: _____

Comments: _____ Report Via: Fax E-Mail Verbal

Sample ID	Date / Time	Sample Location / Description	FOR AIR SAMPLES ONLY				Sample Area / Air Volume
			Type	Time On/Off	Avg. LPM	Total Time	
AS-01	10/3/13 16:50	RZ-E 16B / Area Sample	IAI [PI] [TC]	0810 1650	2.0	520 min	1040 L
AS-02	10/3/13 17:00	RZE-16B / Area Sample	IAI [PI] [TC]	0623 1700	2.2	623 min	1,370.6 L
AS-03	10/4/13 14:00	RZE-16B / Area Sample	IAI [PI] [TC]	0800 1430	2.1	450 min	945 L
			IAI [PI] [TC]				
			IAI [PI] [TC]				
			IAI [PI] [TC]				
			IAI [PI] [TC]				
			IAI [PI] [TC]				
			IAI [PI] [TC]				

Sampled By: **Kristopher Everett** Date: **10/4/13** Time: **1530**

Shipped Via: Fed Ex DHL UPS US Mail Courier Drop Off Other:

Relinquished By: **Kristopher Everett** Relinquished By: _____ Relinquished By: _____

Date/Time: **10/4/13** Date/Time: _____ Date/Time: _____

Received By: **[Signature]** Received By: _____ Received By: _____

Date/Time: **10/4/13 15:30** Date/Time: _____ Date/Time: _____

Condition Acceptable? Yes No Condition Acceptable? Yes No Condition Acceptable? Yes No

Appendix E
Waste Characterization Profile Documentation

Table 1
Soil Analytical Results
Borehole SSAL8-02
Nevada Environmental Response Trust (NERT)
Waste Profile: Soil and Construction Debris

Sample ID	Depth (ft)	Date	EPA Method 6020		alpha-BHC	beta-BHC	Heptachlor epoxide	Endosulfan sulfate	Aldrin	delta-BHC	Endosulfan II	alpha-Chlordane	gamma-Chlordane	Endrin ketone	Chlordane (total)	gamma-BHC	Dieldrin	Endrin	Methoxychlor	4,4'-DDD	Endrin aldehyde	Heptachlor	Toxaphene	Endosulfan I	Hexachloro-benzene	4,4'-DDT	4,4'-DDE	
			Arsenic	Manganese																								
			mg/kg		ug/kg																							
SSAL8-02-1BPC	Surface	8/12/2010	13	14,000	2.2	18	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	32	< 1.8	< 1.8	< 1.8	< 1.8	< 3.4	< 1.8	< 1.8	< 1.8	< 69	< 1.8	690	990	2,200	
SSAL8-02-2BPC	0 to 1	9/8/2010	12	2,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SSAL8-02-3BPC	1 to 2	9/8/2010	11	4,200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SSAL8-02-4BPC	2 to 3	9/8/2010	27	670	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SSAL8-02-5BPC	3 to 4	8/12/2010	3.4	780	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	1.2	< 1.9	< 1.9	< 1.9	< 1.9	1.4	4.3	< 1.9	< 1.9	< 73	< 1.9	92	40	220	

Summary of Historical Uses of the Beta Ditch

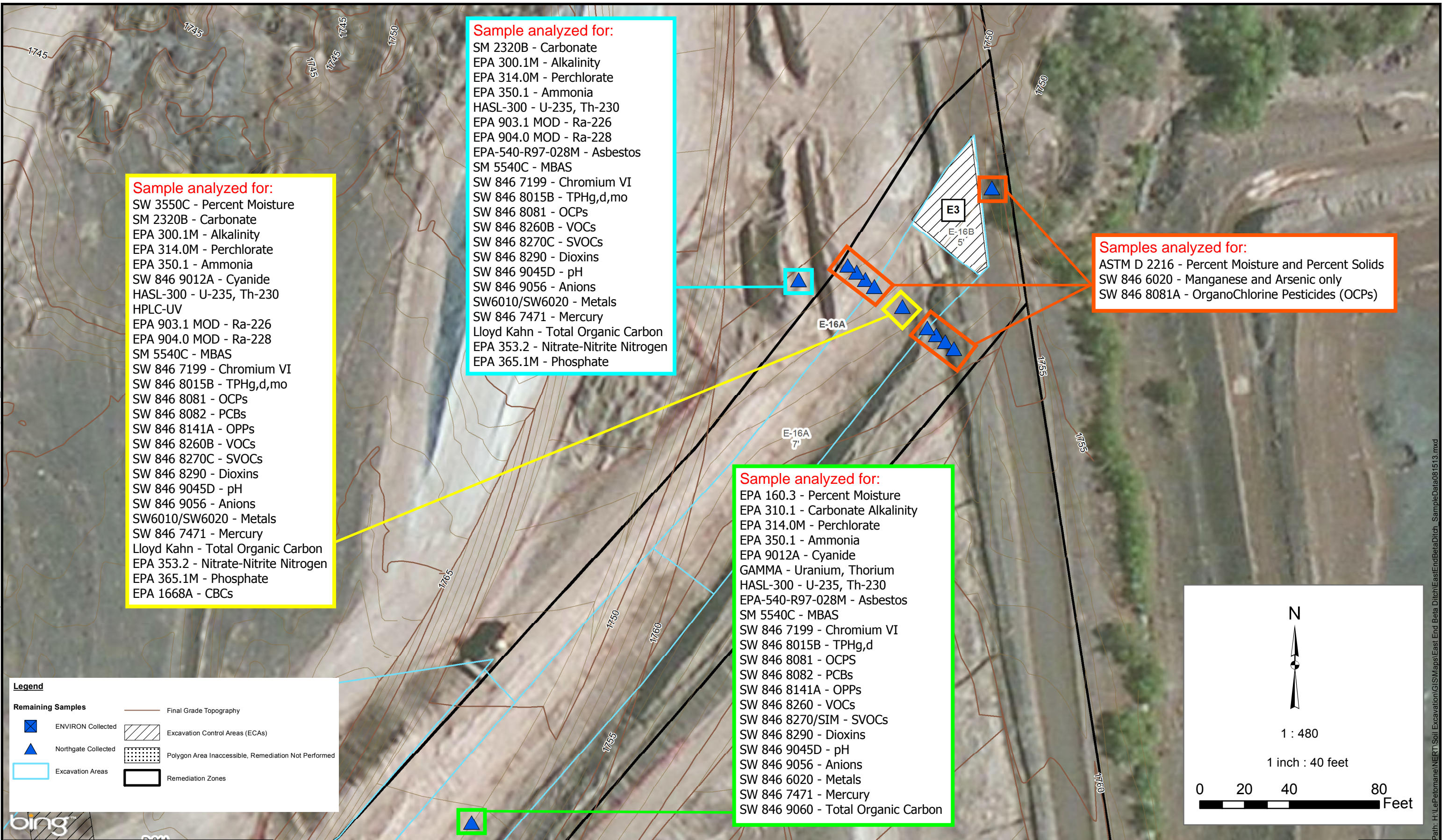
The NERT Site (the Site) is traversed from west to east by a drainage ditch known as the Beta Ditch that historically conveyed liquid wastes from the Site and from neighboring facilities located to the west. The Beta Ditch was constructed in approximately 1941 or 1942 during construction of the BMI Complex by the U.S. Government, and it was historically used for two primary purposes:

- 1941/1942 – 1976: Transfer of a variety of liquid and slurried wastes including: acid effluent, waste caustic liquor, sodium chlorate, potassium chlorate, potassium perchlorate, manganese perchlorate, ammonium perchlorate, and boron process waste, originating from U.S Government operations and the various operating companies. These wastes, as well as stormwater run-off, were transmitted to the upper and lower BMI ponds located to the northeast of the Site (Kleinfelder 1993); and
- 1976 – 2010: By January 1976, the facility achieved a “zero discharge” industrial waste water effluent program (ENSR/AECOM 2008). Between 1976 and 1993, the Beta Ditch conveyed non-contact cooling water, and between 1976 and 2010, the Beta Ditch conveyed storm water runoff. These nonindustrial effluents were transmitted to the Las Vegas Wash by the Alpha Ditch or Pittman bypass pipeline (Kleinfelder 1993).

In early 2010, the Beta Ditch was blocked by an earthen dam near the eastern end of the Site, along the TIMET-NERT property boundary (Northgate 2010). Much of the Beta Ditch was excavated and impacted soils were disposed of at the Apex Landfill in 2010-2011. This large portion of the Beta Ditch was re-graded, channelized, and now includes a retention basin. The west end of the Beta Ditch at the Site continues to receive storm water drainage from the neighboring property to the west (ENVIRON 2012). A small portion of the Beta Ditch, at the east end near the TIMET property line was not excavated during 2010-2011. Excavation of this area is planned for September-October 2013.

References

- ENSR/AECOM, 2008. Summary of Available Data for LOU 5 Beta Ditch, Tronox Facility, Henderson, Nevada. June 30.
- ENVIRON, 2012. Remedial Investigation and Feasibility Study Work Plan, Nevada Environmental Response Trust Site; Henderson, Nevada. December 17.
- Kleinfelder, 1993. Environmental Conditions Assessment, Kerr-McGee Chemical Corporation, Henderson, Nevada. April.
- Northgate, 2010. Appendix A of the Excavation Plan for Phase B Soil Remediation of RZ-E, Addendum to the Removal Action Work Plan. November 3.



Legend

ENVIRON Collected	Final Grade Topography
Northgate Collected	Excavation Control Areas (ECAs)
Excavation Areas	Polygon Area Inaccessible, Remediation Not Performed
	Remediation Zones

N

1 : 480

1 inch : 40 feet

0 20 40 80 Feet

ENVIRON

2200 Powell St., Suite 700, Emeryville, CA 94608

East End of Beta Ditch
 Nevada Environmental Response Trust Site, Henderson, Nevada

Drafter: EA Date: 8/16/2013 Contract Number: 21-32100E01

Figure
1

Approved by: Revised:



Requested Disposal Facility: 3825 Apex Regional LF NV

Waste Profile #
Sales Rep #:

Saveable fill-in form. Restricted printing until all required (yellow) fields are completed.

I. Generator Information

Generator Name: Nevada Environmental Response Trust (NERT)			
Generator Site Address: 510 Fourth Street			
City: Henderson	County: Clark	State: Nevada	Zip: 89015
State ID/Reg No: n/a	State Approval/Waste Code: n/a	(if applicable)	NAICS #: n/a
Generator Mailing Address (if different): <input checked="" type="checkbox"/> 35 East Wacker Drive, Suite 1550			
City: Chicago	County: Cook	State: Illinois	Zip: 60606
Generator Contact Name: Andrew Steinberg		Email: andrew.steinberg@lepetomanein	
Phone Number: (312) 498-2800	Ext:	Fax Number:	

II. Billing Information

Bill To: ENVIRON International Corp.	Contact Name: Nita Shinn		
Billing Address: 500 Fourth Street	Email: nshinn@environcorp.com		
City: Henderson	State: NV	Zip: 89015	Phone: (312) 927-1146

III. Waste Stream Information

Name of Waste: Soil and Construction Debris - East End of Beta Ditch
Process Generating Waste: Soil Remediation - Excavation of Soil and Demolition of Concrete and Metal Structures
Type of Waste: <input type="checkbox"/> INDUSTRIAL PROCESS WASTE <input checked="" type="checkbox"/> POLLUTION CONTROL WASTE
Physical State: <input checked="" type="checkbox"/> SOLID <input type="checkbox"/> SEMI-SOLID <input type="checkbox"/> POWDER <input type="checkbox"/> LIQUID
Method of Shipment: <input checked="" type="checkbox"/> BULK <input type="checkbox"/> DRUM <input type="checkbox"/> BAGGED <input type="checkbox"/> OTHER:
Estimated Annual Volume: 1,200 Cubic Yards
Frequency: <input checked="" type="checkbox"/> ONE TIME <input type="checkbox"/> ONGOING
Disposal Consideration: <input checked="" type="checkbox"/> LANDFILL <input type="checkbox"/> SOLIDIFICATION <input type="checkbox"/> BIOREMEDIATION

IV. Representative Sample Certification

NO SAMPLE TAKEN

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?	<input checked="" type="checkbox"/> YES or <input type="checkbox"/> NO
Type of Sample: <input type="checkbox"/> COMPOSITE SAMPLE <input checked="" type="checkbox"/> GRAB SAMPLE	
Sample Date: 8/12/2010	
Sample ID Numbers: Further depth intervals sampled on 9/8/2010. Sample IDs: SSAL8-02-1BPC (0' depth), SSAL8-02-2BPC (0-1' depth), SSAL8-02-3BPC (1-2' depth), SSAL8-02-4BPC (2-3' depth), SSAL8-02-5BPC (3-4' depth). See attached summary table and database query results. Laboratory analytical reports available upon request (very large files). The five depth-discreet samples were collected from a single central borehole to characterize this approximately 40' by 60' area to a planned excavation depth of 5 feet.	



Waste Profile #

V. Physical Characteristics of Waste

Characteristic Components		% by Weight (range)			
1. Soil		99-100			
2. Construction Debris (concrete, metal)		0-1			
3.					
4.					
5.					
Color	Odor (describe)	Does Waste Contain Free Liquids?	% Solids	pH:	Flash Point
Brown	None	<input type="checkbox"/> YES or <input checked="" type="checkbox"/> NO	100	NA	NA °F

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) Including Chain of Custody and Required Parameters Provided for this Profile

Does this waste or generating process contain regulated concentrations of the following Pesticides and/or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm)[reference 40 CFR 261.23(a)(5)]?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD), or any other dioxin as defined in 40 CFR 261.31?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste a reactive or heat generating waste?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does the waste contain sulfur or sulfur by-products?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste generated at a Federal Superfund Clean Up Site?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste from a TSD facility, TSD like facility or consolidator?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No

VI. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services Inc.

Dan Clark of ENVIRON acting as authorized agent for NERT

ENVIRON International Corp.

Authorized Representative Name And Title (Type or Print)

Company Name

Dan Clark of ENVIRON acting as authorized agent for Nevada Environmental Response Trust (NERT)
Authorized Representative Signature

7-29-2013

Date

Requested Disposal Facility: 3825 Apex Regional LF NV

Waste Profile #
Sales Rep #:

Saveable fill-in form. Restricted printing until all required (yellow) fields are completed.

I. Generator Information

Generator Name: Nevada Environmental Response Trust (NERT)			
Generator Site Address: 510 Fourth Street			
City: Henderson	County: Clark	State: Nevada	Zip: 89015
State ID/Reg No: NA	State Approval/Waste Code: NA (if applicable)		NAICS #: None
Generator Mailing Address (if different): <input checked="" type="checkbox"/> 35 East Wacker Drive, Suite 1550			
City: Chicago	County: Cook	State: Illinois	Zip: 60606
Generator Contact Name: Andrew Steinberg		Email: andrew.steinberg@lepetomanein ⁺	
Phone Number: (312) 498-2800	Ext:	Fax Number: inc.com	

II. Billing Information

Bill To: ENVIRON International Corp.		Contact Name: Nita Shinn	
Billing Address: 500 Fourth Street		Email: nshinn@environcorp.com	
City: Henderson	State: NV	Zip: 89015	Phone: (312) 927-1146

III. Waste Stream Information

Name of Waste: Asbestos-Impacted Soil	
Process Generating Waste: Soil Remediation - Excavation of Asbestos-Impacted Layer	
Type of Waste:	<input type="checkbox"/> INDUSTRIAL PROCESS WASTE <input checked="" type="checkbox"/> POLLUTION CONTROL WASTE
Physical State:	<input checked="" type="checkbox"/> SOLID <input type="checkbox"/> SEMI-SOLID <input type="checkbox"/> POWDER <input type="checkbox"/> LIQUID
Method of Shipment:	<input checked="" type="checkbox"/> BULK <input type="checkbox"/> DRUM <input type="checkbox"/> BAGGED <input type="checkbox"/> OTHER:
Estimated Annual Volume:	50 Cubic Yards
Frequency:	<input checked="" type="checkbox"/> ONE TIME <input type="checkbox"/> ONGOING
Disposal Consideration:	<input checked="" type="checkbox"/> LANDFILL <input type="checkbox"/> SOLIDIFICATION <input type="checkbox"/> BIOREMEDIATION

IV. Representative Sample Certification NO SAMPLE TAKEN

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?	<input checked="" type="checkbox"/> YES or <input type="checkbox"/> NO
Type of Sample:	<input type="checkbox"/> COMPOSITE SAMPLE <input checked="" type="checkbox"/> GRAB SAMPLE
Sample Date: 7/12/2011	
Sample ID Numbers: BD-001, BD-002, BD-003, BD-004, BD-005, TF-001, TF-002, TF-003, LA-001, LA-003 See attached report with summary table and laboratory analytical report.	

Waste Profile #

V. Physical Characteristics of Waste

Characteristic Components		% by Weight (range)			
1. Soil		95-100			
2. Chrysotile Asbestos Fibers - Friable		0-5			
3.					
4.					
5.					
Color	Odor (describe)	Does Waste Contain Free Liquids?	% Solids	pH:	Flash Point
Beige-Brown	None	<input type="checkbox"/> YES or <input checked="" type="checkbox"/> NO	100	NA	NA °F

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) Including Chain of Custody and Required Parameters Provided for this Profile

Does this waste or generating process contain regulated concentrations of the following Pesticides and/or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm)[reference 40 CFR 261.23(a)(5)]?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD), or any other dioxin as defined in 40 CFR 261.31?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste a reactive or heat generating waste?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does the waste contain sulfur or sulfur by-products?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste generated at a Federal Superfund Clean Up Site?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste from a TSD facility, TSD like facility or consolidator?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No

VI. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services Inc.

Dan Clark of ENVIRON acting as authorized agent for NERT

ENVIRON International Corp.

Authorized Representative Name And Title (Type or Print)

Company Name

Dan Clark of ENVIRON acting as authorized agent for Nevada Environmental Response Trust (NERT)

7-29-2013

Authorized Representative Signature

Date



AGENT SPECIAL WASTE SERVICE AGREEMENT NON-HAZARDOUS WASTES

Special Waste Profile Number: 3825 13 12625

Agent Billing Information

Name: ENVIRON International Corp
Address: 500 Fourth Street
City: Henderson
State: NV Zip: 89015
Phone: 312 927 1146 Fax: _____
Contact: Nita Shinn

Republic Waste Location (Company)

APEX Landfill
13550 US Highway 93 North
Las Vegas, NV 89165
702-599-5907

Project: Nevada Environmental Response Trust County and State of Origin: Clark, NV
Generator Address: 510 Fourth St. Henderson, NV 89015
Additional Information: Contact: Andrew Steinberg 312 498 2800

- Special Waste Service.** Subject to the terms and conditions contained herein, the Company and the Agent agree to be legally bound hereby and the Company agrees to accept at its Facility, Acceptable Waste (hereinafter referred to as "Special Waste" or "Waste") delivered by Agent, and which is acceptable to the Company as herein provided.
- Acceptable Waste.** Only those Special Wastes described in Paragraph 3 herein and in any Special Waste Profile(s) which number is identical to the contract number referenced above, and which Profile(s) are hereby incorporated by reference herein, and which Waste is subsequently approved by the Company and is otherwise in accordance with all laws, regulations and permits, shall be acceptable for disposal at the Facility ("Acceptable Waste").

3. (A) Rates for Disposal:

Waste	Disposal Method	Disposal Rate:	Fees / Taxes / Misc.	Transportation
Soil & Construction Debris	Landfill	\$23.00 Per Ton	2.3% SWMA	
		\$200.00 Minimum		

Additional Information: ****Profile good through March 31, 2014***

EAV: 1200 CY

Agent shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws and regulations.
Cannot Exceed Daily Volume of Waived Without Prior Approval of Company.

- (B) **Incorporation by Reference.** In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.
- 1) N/A
 - 2)

4. **Term of Agreement.** This Agreement is effective for 6 months, commencing 9/11/2013 and shall automatically be renewed for a similar term thereafter unless either party shall give written notice (via certified mail) of termination to the other party at least thirty (30) days prior written notice.

THE COMPANY AND THE AGENT, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED HEREIN, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE AND ON THE REVERSE SIDE OF THIS DOCUMENT. IN ADDITION, THE GENERATOR IS CERTIFYING THE ATTACHED TERMS AND CONDITIONS HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

AGENT
[Signature]
SIGNATURE (AUTHORIZED REPRESENTATIVE)
David T. Heidlauf
NAME AND TITLE (PLEASE PRINT)
9.26.2013
DATE

REPUBLIC SERVICES/COMPANY
[Signature]
SIGNATURE (AUTHORIZED REPRESENTATIVE)
Amoahy S Powell - Area President Mountain
NAME AND TITLE (PLEASE PRINT)
9/29/13
DATE

Terms and Conditions of Agent Special Waste Service Agreement

5. **The Agreement.** This agreement of the parties ("Agreement") for the disposal of Special Waste shall consist of this Agreement, riders to the Agreement (if any) and any Application, permit and approval that may be applicable to such Waste.
6. **Waste Accepted at Facility.** Agent represents, warrants and covenants that the Waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any Waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Agent shall in all matters relating to the collection, transportation and disposal of the Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same. The word "Facility" shall mean any landfill, transfer station or other location used to transfer, process or otherwise dispose of such Waste.
7. **Special Waste.** Agent represents, warrants and covenants that the Waste delivered to Company hereunder (i) will not contain any Special Waste that is not specifically described on any Application which is attached hereto and which is subsequently approved by the Company, (ii) will meet the material description as set forth in any Application and otherwise in all significant respects and (iii) will not contain Unacceptable Waste. The parties may incorporate additional Special Waste as part of this Agreement if prior to delivery of such Waste to Company, Agent has provided an Application for such Waste and Company has approved disposal of such Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste. Title to any and all Waste handled or disposed of by Company shall at all times remain with Generator and Agent.
8. **Rights of Refusal/Rejection.** The Agent shall inspect all Waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of Waste(s) delivered to its Facility including if the Company believes the Agent has breached (or is breaching) its representations, warranties, covenants or agreements hereunder or any applicable federal, state or local laws, regulations, rules or orders, even if only a portion of such Waste load is unacceptable. The Company shall have the right to inspect all vehicles of Waste haulers, including the Agent's vehicles, in order to determine whether the Waste is Acceptable Waste or Unacceptable Waste pursuant to this Agreement and all applicable federal, state and local laws, rules and regulations. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Agent of its responsibilities or liability under this Agreement. The Agent shall be responsible for, and bear all reasonable expenses and damages incurred by the Company as a result of the Unacceptable Waste and in the receding and removal of Unacceptable Waste disposed in the Facility. The Company, may also, in its sole discretion, require the Agent to promptly remove the Unacceptable Waste.
9. **Limited License to Enter.** This Agreement provides Agent with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Agent's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Waste, Agent's personnel shall promptly leave the Facility. Under no circumstances shall Agent or its personnel engage in any scavenging of Waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of Waste and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Agent agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept Waste from and shall deny an entrance license to, any of Agent's personnel whom Company believes is under the influence of alcohol or other chemical substances. Agent shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.
10. **Charges and Payment.** Payment shall be made by Agent within sixty (60) days after receipt of invoice from Company. In the event that any amount is overdue, the Company may terminate this Agreement. Agent agrees to pay a finance charge equal to the maximum interest rate permitted by law. Agent shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon sixty (60) days written notice to Agent. Agent hereby agrees that the Company's right to receive payments under this Agreement is unconditional and is not conditioned upon Agent first receiving payment from Generator or any other party.
11. **Termination.** Agent's obligations, representations, warranties and covenants regarding the Waste delivered and all indemnities shall survive termination of this Agreement. Should Agent materially default in any of its obligations hereunder, then Company may immediately terminate this Agreement and Agent shall be liable for all costs and damages incurred by the Company.
12. **Driver's Knowledge and Authority.** Agent represents, warrants and covenants that its drivers who deliver Waste to Company's Facility have been advised by Agent of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility, of Company's restrictions on deliveries of Special Waste to the Facility of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.
13. **Indemnification.** Agent shall indemnify, defend and hold harmless the Company and its subsidiaries, affiliates and parent corporations, as applicable and their respective officers, directors, lenders, employees, subcontractors and agents from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys fees arising under federal, state or local laws, regulations or ordinances, or relating to the content of the Waste, or arising out of or in connection with any breach of this Agreement or arising out of the negligent collection, transportation and disposal of Waste by Agent or Agent's employees, agents, subcontractors or representatives thereof. Agent shall also be responsible for increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of the Company as to the content of the Waste following discovery of potentially Unacceptable Waste. This indemnification and other obligations stated in this paragraph shall survive the termination of this Agreement.
14. **Insurance.** Agent shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverage	Minimum Amounts of Insurance
Worker's Compensation	Statutory
General Liability	\$500,000 combined single limit
Automobile Liability	\$500,000 combined single limit

- All insurance will be by insurers authorized to do business in the state in which the Facility is located. Prior to Agent being allowed on Facility premises, Agent shall provide the Company with certificates of insurance or other satisfactory evidence that such insurance has been procured and is in force. Said policies shall not thereafter be canceled, be permitted to expire, or be changed without thirty (30) days advance written notice to the Company. Agent warrants that it will secure the above minimum amounts of insurance from any transportation of the Waste to the Facility.
15. **Failure to Perform.** Neither party hereto shall be liable for its failure to perform hereunder due to circumstances not its fault and beyond its reasonable control, including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party hereto. In the event of any of the circumstances provided for in the preceding sentence, including, but not limited to, whether any federal, state or local court or governmental authority takes any action which would (i) close or restrict operations at the Facility, (ii) limit the quantity or prohibit the disposal of Waste at the Facility, or (iii) limit the ability of or prohibit Agent from delivering Waste to the Facility, the Company shall have the right, at its option, to reduce, suspend or terminate Agent's access to the Facility immediately, without prior notice and without any additional liabilities between the parties, other than Agent's payment obligation hereunder. Neither Party is required hereunder to settle any labor dispute against its own best judgment.
16. **Other Termination.** The occurrence of any of the following events shall also constitute an event of default by the Agent and shall give the Company the right to immediately terminate this Agreement:
- (A) A petition for reorganization or bankruptcy filed by or against the Agent;
 - (B) Failure by Agent to pay any amounts due to Company;
 - (C) Any breach by Agent of any of its obligations pursuant to the Agreement.
- Agent shall be liable for and shall indemnify, defend and hold harmless Company from any losses, claims, expenses or damages incurred by the Company as a result of termination hereunder.
17. **Assignment.** Agent may not assign, transfer or otherwise vest in any other Company, entity or person, in whole or in part, any of its rights or obligations under the Agreement without the prior written consent of the Company, provided, however, that the Company may without any such prior written consent, assign its rights and/or obligations under the Agreement to a subsidiary or affiliate corporation.
18. **Right of Disposal.** This Agreement does not grant any rights to dispose of Waste other than in accordance herewith. The Company reserves the right to immediately terminate access to the Facility by Agent and Agent's personnel in the event of breach or violation by Agent of any of the terms of this Agreement, the Company's operating rules or payment policies or any applicable laws or regulations.
19. **Continuing Compliance.** The Agent has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Agent and/or Generator which may affect the acceptability of the Waste by the Company. Further, the Agent shall comply with all Company requests for evidence of Agent's continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new, updated Waste profiles on the Waste(s) offered for disposal or (ii) providing appropriate certification that the Waste being offered for disposal is accurately reflected by the appropriate Application or, (iii) re-sample the Waste at Agent's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the Waste at Agent's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or (v) all of the above.
20. **Miscellaneous.**
- (A) This Agreement shall be governed by the laws of the State in which the Facility is located.
 - (B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any or of succeeding breach of the same obligation or of any other obligation of the Agreement.
 - (C) No modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.
 - (D) Agent shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or data) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Agent or its employees in the performance of this Agreement without in each instance securing the prior written consent of the other Company.
 - (E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.
 - (F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgment, purchase order or other response by Agent which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.
 - (G) Agent represents, warrants and covenants that it is and during the term of this Agreement, will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.
 - (H) It is the understanding and agreement of the parties that the Company is an independent contractor and is not an agent, nor an authorized representative of the Agent. It is the further understanding and agreement of the parties that Agent is an authorized representative of Generator.
21. **Notice.** All notices herein provided for shall be considered as having been given upon being placed in the mail, certified postage prepaid addressed to the Company or Agent at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.
22. **Liquidated Damages.** In the event that this Agreement is terminated by the Agent in a manner not in accordance with paragraph 4 hereof, or terminated due to a breach of this Agreement by the Agent, the Agent shall pay liquidated damages, and not as a penalty, the greater of an amount equal to six (6) months' service charges or the Agent's most recent monthly charge multiplied by six (6). The Agent shall be given credit for any advance payments made hereunder, however, in computing the amount owed or liquidated damages hereunder. The Agent acknowledges that this liquidated damages clause is reasonable and is applicable to recover damages related to its investment in equipment, development of landfills and hiring of employees undertaken by the Company to service its customers including the Agent. This liquidated damages clause in no way relieves the Agent from its obligations and liability for other costs or damages as set forth elsewhere in this Agreement.

BROKER: _____

COMPANY: _____

May 2009



AGENT SPECIAL WASTE SERVICE AGREEMENT NON-HAZARDOUS WASTES

Special Waste Profile Number: 3825 13 12575

Agent Billing Information		Republic Waste Location (Company)	
Name:	<u>ENVIRON International Corp</u>	<u>APEX Landfill</u>	
Address:	<u>500 Fourth St</u>	<u>13550 US Highway 93 North</u>	
City:	<u>Henderson</u>	<u>Las Vegas, NV 89165</u>	
State:	<u>NV</u> Zip: <u>89015</u>	<u>702-599-5907</u>	
Phone:	<u>312 927 1146</u> Fax: _____		
Contact:	<u>Nita Shinn</u>		

Project: NERT County and State of Origin: Clark, NV
 Generator Address: 510 Fourth St, Henderson, NV 89015
 Additional Information: Contact: Andrew Steinberg 312 498 2800

1. **Special Waste Service.** Subject to the terms and conditions contained herein, the Company and the Agent agree to be legally bound hereby and the Company agrees to accept at its Facility, Acceptable Waste (hereinafter referred to as "Special Waste" or "Waste") delivered by Agent, and which is acceptable to the Company as herein provided.
2. **Acceptable Waste.** Only those Special Wastes described in Paragraph 3 herein and in any Special Waste Profile(s) which number is identical to the contract number referenced above, and which Profile(s) are hereby incorporated by reference herein, and which Waste is subsequently approved by the Company and is otherwise in accordance with all laws, regulations and permits, shall be acceptable for disposal at the Facility ("Acceptable Waste").

3. (A) **Rates for Disposal:**

Waste	Disposal Method	Disposal Rate:	Fees / Taxes / Misc.	Transportation
Asbestos Impacted Soil	Landfill	\$23.00 Per Ton	2.3% SWMA	

Additional Information: ****Profile good through May 7, 2014****
 EAV: 50 Cubic Yards

Agent shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws and regulations.
 Cannot Exceed Daily Volume of Waived Without Prior Approval of Company.

- (B) **Incorporation by Reference.** In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.
- 1) N/A
 - 2) _____

4. **Term of Agreement.** This Agreement is effective for 10 months, commencing 7/31/2013 and shall automatically be renewed for a similar term thereafter unless either party shall give written notice (via certified mail) of termination to the other party at least thirty (30) days prior written notice.

THE COMPANY AND THE AGENT, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED HEREIN, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE AND ON THE REVERSE SIDE OF THIS DOCUMENT. IN ADDITION, THE GENERATOR IS CERTIFYING THE ATTACHED TERMS AND CONDITIONS HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

AGENT

 SIGNATURE (AUTHORIZED REPRESENTATIVE)
David T. Heidlauf
 NAME AND TITLE (PLEASE PRINT)
9.26.2013
 DATE

REPUBLIC SERVICES/COMPANY

 SIGNATURE (AUTHORIZED REPRESENTATIVE)
Timothy S Powell - Area President Mountain
 NAME AND TITLE (PLEASE PRINT)
9/29/13
 DATE

Terms and Conditions of Agent Special Waste Service Agreement

5. **The Agreement.** This agreement of the parties ("Agreement") for the disposal of Special Waste shall consist of this Agreement, riders to the Agreement (if any) and any Application, permit and approval that may be applicable to such Waste.

6. **Waste Accepted at Facility.** Agent represents, warrants and covenants that the Waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any Waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Agent shall in all matters relating to the collection, transportation and disposal of the Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same. The word "Facility" shall mean any landfill, transfer station or other location used to transfer, process or otherwise dispose of such Waste.

7. **Special Waste.** Agent represents, warrants and covenants that the Waste delivered to Company hereunder (i) will not contain any Special Waste that is not specifically described on any Application which is attached hereto and which is subsequently approved by the Company, (ii) will meet the material description as set forth in any Application and otherwise in all significant respects and (iii) will not contain Unacceptable Waste. The parties may incorporate additional Special Waste as part of this Agreement if prior to delivery of such Waste to Company, Agent has provided an Application for such Waste and Company has approved disposal of such Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste. Title to any and all Waste handled or disposed of by Company shall at all times remain with Generator and Agent.

8. **Rights of Refusal/Rejection.** The Agent shall inspect all Waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of Waste(s) delivered to its Facility including if the Company believes the Agent has breached (or is breaching) its representations, warranties, covenants or agreements hereunder, or any applicable federal, state or local laws, regulations, rules or orders, even if only a portion of such Waste load is unacceptable. The Company shall have the right to inspect all vehicles of Waste haulers, including the Agent's vehicles, in order to determine whether the Waste is Acceptable Waste or Unacceptable Waste pursuant to this Agreement and all applicable federal, state and local laws, rules and regulations. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Agent of its responsibilities or liability under this Agreement. The Agent shall be responsible for, and bear all reasonable expenses and damages incurred by the Company, as a result of the Unacceptable Waste and in the reloading and removal of Unacceptable Waste disposed in the Facility. The Company, may also, in its sole discretion, require the Agent to promptly remove the Unacceptable Waste.

9. **Limited License to Enter.** This Agreement provides Agent with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Agent's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Waste, Agent's personnel shall promptly leave the Facility. Under no circumstances shall Agent or its personnel engage in any scavenging of Waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of Waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Agent agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept Waste from and shall deny an entrance license to, any of Agent's personnel whom Company believes is under the influence of alcohol or other chemical substances. Agent shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.

10. **Charges and Payment.** Payment shall be made by Agent within sixty (60) days after receipt of invoice from Company. In the event that any amount is overdue, the Company may terminate this Agreement. Agent agrees to pay a finance charge equal to the maximum interest rate permitted by law. Agent shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon sixty (60) days written notice to Agent. Agent hereby agrees that the Company's right to receive payments under this Agreement is unconditional and is not conditioned upon Agent first receiving payment from Generator or any other party.

11. **Termination.** Agent's obligations, representations, warranties and covenants regarding the Waste delivered and all indemnities shall survive termination of this Agreement. Should Agent materially default in any of its obligations hereunder, then Company may immediately terminate this Agreement and Agent shall be liable for all costs and damages incurred by the Company.

12. **Driver's Knowledge and Authority.** Agent represents, warrants and covenants that its drivers who deliver Waste to Company's Facility have been advised by Agent of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility, of Company's restrictions on deliveries of Special Waste to the Facility of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.

13. **Indemnification.** Agent shall indemnify, defend and hold harmless the Company and its subsidiaries, affiliates and parent corporations, as applicable and their respective officers, directors, lenders, employees, subcontractors and agents from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys fees arising under federal, state or local laws, regulations or ordinances, or relating to the content of the Waste, or arising out of or in connection with any breach of this Agreement or arising out of the negligent collection, transportation and disposal of Waste by Agent or Agent's employees, agents, subcontractors or representatives thereof. Agent shall also be responsible for increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of the Company as to the content of the Waste following discovery of potentially Unacceptable Waste. This indemnification and other obligations stated in this paragraph shall survive the termination of this Agreement.

14. **Insurance.** Agent shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverage	Minimum Amounts of Insurance
Worker's Compensation	Statutory
General Liability	\$500,000 combined single limit
Automobile Liability	\$500,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Prior to Agent being allowed on Facility premises, Agent shall provide the Company with certificates of insurance or other satisfactory evidence that such insurance has been procured and is in force. Said policies shall not thereafter be canceled, be permitted to expire, or be changed without thirty (30) days advance written notice to the Company. Agent warrants that it will secure the above minimum amounts of insurance from any transportation of the Waste to the Facility.

15. **Failure to Perform.** Neither party hereto shall be liable for its failure to perform hereunder due to circumstances not its fault and beyond its reasonable control, including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fire, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party hereto. In the event of any of the circumstances provided for in the preceding sentence, including, but not limited to, whether any federal, state or local court or governmental authority takes any action which would (i) close or restrict operations at the Facility, (ii) limit the quantity or prohibit the disposal of Waste at the Facility, or (iii) limit the ability of or prohibit Agent from delivering Waste to the Facility, the Company shall have the right, at its option, to reduce, suspend or terminate Agent's access to the Facility immediately, without prior notice and without any additional liabilities between the parties, other than Agent's payment obligation hereunder. Neither Party is required hereunder to settle any labor dispute against its own best judgment.

16. **Other Termination.** The occurrence of any of the following events shall also constitute an event of default by the Agent and shall give the Company the right to immediately terminate this Agreement:

- (A) A petition for reorganization or bankruptcy filed by or against the Agent.
- (B) Failure by Agent to pay any amounts due to Company.
- (C) Any breach by Agent of any of its obligations pursuant to the Agreement.

Agent shall be liable for and shall indemnify, defend and hold harmless Company from any losses, claims, expenses or damages incurred by the Company as a result of termination hereunder.

17. **Assignment.** Agent may not assign, transfer or otherwise vest in any other Company, entity or person, in whole or in part, any of its rights or obligations under the Agreement without the prior written consent of the Company, provided, however, that the Company may without any such prior written consent, assign its rights and/or obligations under the Agreement to a subsidiary or affiliate corporation.

18. **Right of Disposal.** This Agreement does not grant any rights to dispose of Waste other than in accordance herewith. The Company reserves the right to immediately terminate access to the Facility by Agent and Agent's personnel in the event of breach or violation by Agent of any of the terms of this Agreement, the Company's operating rules or payment policies or any applicable laws or regulations.

19. **Continuing Compliance.** The Agent has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Agent and/or Generator which may affect the acceptability of the Waste by the Company. Further, the Agent shall comply with all Company requests for evidence of Agent's continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new, updated Waste profiles on the Waste(s) offered for disposal or, (ii) providing appropriate certification that the Waste being offered for disposal is accurately reflected by the appropriate Application or, (iii) re-sample the Waste at Agent's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the Waste at Agent's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (v) all of the above.

20. **Miscellaneous**

- (A) This Agreement shall be governed by the laws of the State in which the Facility is located.
- (B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of the Agreement.
- (C) No modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.
- (D) Agent shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or data) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Agent or its employees in the performance of this Agreement without in each instance securing the prior written consent of the other Company.
- (E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.
- (F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgment, purchase order or other response by Agent which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.
- (G) Agent represents, warrants and covenants that it is and during the term of this Agreement, will remain in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.
- (H) It is the understanding and agreement of the parties that the Company is an independent contractor and is not an agent, nor an authorized representative of the Agent. It is the further understanding and agreement of the parties that Agent is an authorized representative of Generator.

21. **Notices.** All notices herein provided for shall be considered as having been given upon being placed in the mail, certified postage prepaid addressed to the Company or Agent at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.

22. **Liquidated Damages.** In the event that this Agreement is terminated by the Agent in a manner not in accordance with paragraph 4 hereof, or terminated due to a breach of this Agreement by the Agent, the Agent shall pay, as liquidated damages, and not as a penalty, the greater of an amount equal to six (6) months' service charges or the Agent's most recent monthly charge multiplied by six (6). The Agent shall be given credit for any advance payments made hereunder, however, in computing the amount owed as liquidated damages hereunder. The Agent acknowledges that this liquidated damages clause is reasonable and is applicable to recover damages related to its investment in equipment, development of landfills and hiring of employees undertaken by the Company to service its customers including the Agent. The liquidated damages clause in no way relieves the Agent from its obligations and liability for other costs or damages as set forth elsewhere in this Agreement.

BROKER: _____

COMPANY: _____

May 2009

Appendix F
Waste Manifests and Truck Ticket Summary



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197181

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street Henderson, Nevada 89015 712-498-2800			e. Generator's Mailing Address: 35 E. Wacker Dr Ste 1550 Chicago, IL 60606		
f. Phone: Henderson, Nevada 89015 712-498-2800			g. Phone: Chicago, IL 60606		
h. Owner's Name:			i. Owner's Phone No.: 712-498-2800		
If owner of the generating facility differs from the generator, provide:					
j. Waste Profile #		k. Exp. Date	l. Waste Shipping Name and Description		m. Containers
					No. Type
3825-13-12623		3/31/2014	Non-Hazardous, Non-Regulated Soil		20 Y
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print)			q. Signature		r. Date

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: 4660 Flamingo Street Las Vegas Nevada 89115 702-645-5848		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: 12301 U.S. Highway 93 North Las Vegas Nevada 89165		c. US EPA Number	d. Discrepancy Indication Space:
b. I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable	<input type="checkbox"/> Non-Friable	<input type="checkbox"/> Both	% Friable % Non-Friable
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	i. Date
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197180

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 3101 South Street Las Vegas, NV 89115 702-496-2970			e. Generator's Mailing Address: 75 E. Wacker Dr Ste 1550 Chicago, IL 60605		
f. Phone:		g. Phone:			
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.: 312-468-2900		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers		n. Total Quantity
			No.	Type	
3025 13 12625	3/31/2014	Non Hazardous, Non Regulated Soil	1	DT	20
o. Unit Wt/Vol					

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)		q. Signature	r. Date
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II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Wendco 1660 Flinnin Street Las Vegas Nevada 89115 702-645-9848		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Apex Regional Landfill 13230 US Highway 93 North Las Vegas Nevada 89165		c. US EPA Number	d. Discrepancy Indication Space:
b.			

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
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IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:	d. Phone:		
e. Special Handling Instructions and Additional Information:			

f. Friable Non-Friable Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date
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*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197183

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street Henderson, Nevada 89015 312-499-2800			e. Generator's Mailing Address: 35 E. Wacker Dr. Ste 1550 Chicago, IL 60606		
f. Phone: Henderson, Nevada 89015 312-499-2800			g. Phone: Chicago, IL 60606		
h. Owner's Name:			i. Owner's Phone No.: 312-499-2800		
If owner of the generating facility differs from the generator, provide:					
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No. Type		n. Total Quantity
3825.13-12625	3/31/2014	Non Hazardous, Non Regulated Soil	1	DT	20

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
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II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: 4660 Flinnin Street Las Vegas Nevada 89115 702-645-5849		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: 13030 N. Highway 93 North Las Vegas Nevada 89165	c. US EPA Number	d. Discrepancy Indication Space:
b. I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.		
e. Name of Authorized Agent (Print)	f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		i. Date	
h. Signature			
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197184

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street Henderson, Nevada 89015 702-498-2800			e. Generator's Mailing Address: 35 E. Walker Dr. Ste 1550 Chicago, IL 60606		
f. Phone: 702-498-2800			g. Phone: 312-498-2800		
h. Owner's Name:			i. Owner's Phone No.: 702-498-2800		
If owner of the generating facility differs from the generator, provide:					
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No. Type		n. Total Quantity
3825 13 12625	3/31/2014	Non-Hazardous, Non-Regulated Soil	1	BT	20 Y

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print) NERT		q. Signature		r. Date	
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II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Wardco 4660 Flinn Street Las Vegas Nevada 89115 702-645-5848		
b. Phone: 702-645-5848	c. Driver Name (Print) G. J. ...	
d. Signature	e. Date 10/2/13	

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Apex Regional Landfill 15000 N. ... Las Vegas Nevada 89165	b.	c. US EPA Number	d. Discrepancy Indication Space:
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I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
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IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	b. Phone:	c. Responsible Agency Name and Address:	d. Phone:
e. Special Handling Instructions and Additional Information:			

f. Friable Non-Friable Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date
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*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197233

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street			e. Generator's Mailing Address: 35 E. Wacker Dr Ste 1550 Chicago, IL 60606		
f. Phone:			g. Phone:		
h. Owner's Name:			i. Owner's Phone No.:		
If owner of the generating facility differs from the generator, provide:					
j. Waste Profile #		k. Exp. Date	l. Waste Shipping Name and Description		m. Containers
					n. Total Quantity
					o. Unit Wt/Vol

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)		q. Signature		r. Date	
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II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Interdoc 4660 Flippin Street, Las Vegas NV 702-455-5848		
b. Phone:		
c. Driver Name (Print)		d. Signature
		e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: Apex Regional Landfill 13550 U.S. Highway 93 North, LV NV 89165		c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	
		g. Date	

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address: Walker Specialty Construction Inc 6428 Windy Road Las Vegas, NV 89165 702-243-2500		c. Responsible Agency Name and Address: Southern Nevada Health District PO Box 3902 Las Vegas, NV 702-759-0660	
b. Phone:			
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197228

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street Las Vegas, NV 89015 702-465-2800			e. Generator's Mailing Address: 75 E. Walker Dr. Ste 1550 Chicago, IL 60606		
f. Phone:		g. Phone:			
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #		k. Exp. Date	l. Waste Shipping Name and Description		m. Containers
					n. Total Quantity
					o. Unit Wt/Vol
3825 13 12575		11/15/01	ACMSol		20 Y
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print)			q. Signature		r. Date

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Wendco 4660 Flamingo Street, Las Vegas NV 702-465-5848		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: Apex Regional Landfill 13550 U.S. Highway 93 North, LV NV 89165		c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address: Walker Specialty Construction Inc 5-128 Windy Road Las Vegas, NV 89145 702-213-2500		c. Responsible Agency Name and Address: Southern Nevada Health District PO Box 3902 Las Vegas, NV 89102 702-759-0600	
b. Phone:	d. Phone:		
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both	% Friable	% Non-Friable	
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	i. Date
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197235

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street			e. Generator's Mailing Address: 35 E. Wacker Dr Ste 1550 Chicago, IL 60606		
f. Phone:			g. Phone:		
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	n. Total Quantity	o. Unit Wt/Vol
3825-13-12575	11/2010	ACM Soil	1	20	Y

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print) of ENVIRON acting as authorized agent for the NERT.		q. Signature	r. Date
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II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Wardco 4660 Flippin Street, Las Vegas NV 702-465-5848		
b. Phone:		
c. Driver Name (Print) GTO	d. Signature	e. Date 10/2/13

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Apex Regional Landfill 13550 U.S. Highway 93 North, LV NV 89165	b.	c. US EPA Number	d. Discrepancy Indication Space:
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I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
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IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address: Walker Specialty Construction Inc. 6428 Windy Road Las Vegas, NV 89165 702-242-2500	b. Phone:	c. Responsible Agency Name and Address: Southern Nevada Health District PO Box 3902 Las Vegas, NV 702-750-0660	d. Phone:
e. Special Handling Instructions and Additional Information:			

f. Friable Non-Friable Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date
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*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197236

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street Henderson, NV 89015 312-498-2800			e. Generator's Mailing Address: 35 E. Wacker Dr Ste 1530 Chicago, IL 60606			
f. Phone: Henderson, NV 89015 312-498-2800			g. Phone: Chicago, IL 60606			
If owner of the generating facility differs from the generator, provide:						
h. Owner's Name:			i. Owner's Phone No.: 312-498-2800			
j. Waste Profile #		k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	n. Total Quantity	o. Unit Wt/Vol
3625 13 12575		1/1/2010	ACM Soil	1 DT	20 Y	

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
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II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Wendco 4600 Flippin Street, Las Vegas NV 702-465-5048		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Apex Regional Landfill 13550 U.S. Highway 93 North, LV NV 89165	c. US EPA Number	d. Discrepancy Indication Space:
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I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
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IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address: Walker Specialty Construction Inc 6428 Windy Road Las Vegas, NV 89165 702-243-2500	c. Responsible Agency Name and Address: Southern Nevada Health District PO Box 3902 Las Vegas, NV 702-759-0660
b. Phone: Las Vegas, NV 89165 702-243-2500	d. Phone: Las Vegas, NV 702-759-0660
e. Special Handling Instructions and Additional Information:	

f. Friable Non-Friable Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date
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*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197241

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street Henderson, NV 89015 312-498-2600			e. Generator's Mailing Address: 35 E. Wacker Dr. Ste 1550 Chicago, IL 60606			
f. Phone: Henderson, NV 89015 312-498-2600			g. Phone: Chicago, IL 60606			
h. Owner's Name:			i. Owner's Phone No.: 312-498-2600			
If owner of the generating facility differs from the generator, provide:						
j. Waste Profile #		k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	n. Total Quantity	o. Unit Wt/Vol
3825-13 12575		1/1/2010	ACM Soil	1 DT	20 Y	
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.						
p. Generator Authorized Agent Name (Print)			q. Signature		r. Date	

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Wendco 4660 Flippin Street, Las Vegas NV 702-465-5848		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date
Randy	Randy	10/2/13

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: Apex Regional Landfill 13550 U.S. Highway 93 North, LV NV 89165		c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address: struction Inc. 6428 Windy Road Las Vegas, NV 89165 702-243-2500		c. Responsible Agency Name and Address: tnot PO Box 3902 Las Vegas, NV 702-759-0660	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both		i. Date	



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197239

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street Henderson, NV 89015 312-493-2800			e. Generator's Mailing Address: 35 E. Wacker Dr Ste 1550 Chicago, IL 60606			
f. Phone:			g. Phone:			
h. Owner's Name:			i. Owner's Phone No.: 312-493-2800			
If owner of the generating facility differs from the generator, provide:						
j. Waste Profile #		k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	n. Total Quantity	o. Unit Wt/Vol
3825 13 12575		1/1/2010	ACM Soil	1 BT	20 Y	
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.						
p. Generator Authorized Agent Name (Print) K. S. Shing			q. Signature		r. Date	

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Wentco 4660 Flippin Street, Las Vegas NV 702-465-5849		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: Apex Regional Landfill 13550 U.S. Highway 93 North, LV NV 89165		c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address: Walker Specialty Construction Inc 6428 Windy Road Las Vegas, NV 89155 702-712-2500		c. Responsible Agency Name and Address: Southern Nevada Health District PO Box 3902 Las Vegas, NV 702-750-0660	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both		i. Date	



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197238

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street Henderson, NV 89015 312-498-2800			e. Generator's Mailing Address: 35 E Wacker Dr Ste 1550 Chicago, IL 60606			
f. Phone: Henderson, NV 89015 312-498-2800			g. Phone: Chicago, IL 60606			
If owner of the generating facility differs from the generator, provide:			i. Owner's Phone No.: 312-498-2800			
h. Owner's Name:			i. Owner's Phone No.:			
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3825 13 12375	11/2010	ACM/Soil	1	DT	20	Y

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print) Nevada Environmental Response Trust		q. Signature	r. Date
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II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Wendbo 1650 Rippin Street, Las Vegas NV 702-465-5848		
b. Phone:		
c. Driver Name (Print) GEO	d. Signature	e. Date 10/2/13

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Ape Regional Landfill 13550 U.S. Highway 93 North, LV NV 89165	c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.		
e. Name of Authorized Agent (Print)	f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address: Walker Specialty Construction Inc 6428 Windy Road	b. Phone:	c. Responsible Agency Name and Address: Southern Nevada Health District PO Box 3902 Las Vegas, NV 702-759-0600	d. Phone:
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)	h. Signature	i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197242

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street Henderson, NV 89015 312-498-2600			e. Generator's Mailing Address: 35 E. Walker Dr. Ste 1550 Chicago, IL 60606		
f. Phone: Henderson, NV 89015 312-498-2600			g. Phone: Chicago, IL 60606		
h. Owner's Name:			i. Owner's Phone No.: 312-498-2600		
If owner of the generating facility differs from the generator, provide:					
j. Waste Profile #		k. Exp. Date	l. Waste Shipping Name and Description		m. Containers No. Type
3625 13 12875		11/2010	ACM Soil		1 DT 20 Y
n. Total Quantity					
o. Unit Wt/Vol					
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print)			q. Signature		r. Date

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Werkko 1600 Flippin Street, Las Vegas NV 702-465-5848		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Apex Regional Landfill 13550 U.S. Highway 93 North, LV NV 89165		c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address: Walker Specialty Construction Inc 6428 Windy Road Las Vegas, NV 89165 702-243-2500		c. Responsible Agency Name and Address: Southern Nevada Health District PO Box 3902 Las Vegas, NV 702-759-0660	
b. Phone: Las Vegas, NV 89165 702-243-2500		d. Phone: Las Vegas, NV 702-759-0660	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	i. Date
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197244

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NER T) 510 Fourth Street Las Vegas, NV 89101 702-498-2600			e. Generator's Mailing Address: 35 E. Walker Dr Ste 1550 Chicago, IL 60605		
f. Phone:			g. Phone:		
h. Owner's Name:			i. Owner's Phone No.:		
If owner of the generating facility differs from the generator, provide:					
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description		m. Containers No. Type	n. Total Quantity
2625 13 12575	12/30/10	ACMSol		1 DT	20 Y
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print)			q. Signature		r. Date

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Wendco 4660 Flippin Street, Las Vegas NV 702-465-5848		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Apex Regional Landfill 13550 U.S. Highway 93 North, LV NV 89165	b.	c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)	f. Signature	g. Date	

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address: Walker Specialty Construction Inc 6428 Windy Road Las Vegas, NV 89165 702-243-2500	b. Phone:	c. Responsible Agency Name and Address: Southern Nevada Health District PO Box 3902 Las Vegas, NV 702-759-0660	d. Phone:
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197196

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street Henderson, Nevada 89015 312-498-2800			e. Generator's Mailing Address: 35 E. Wacker Dr Ste 1550 Chicago, IL 60606		
f. Phone:			g. Phone:		
h. Owner's Name:			i. Owner's Phone No.: 312-498-2800		
If owner of the generating facility differs from the generator, provide:					
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers		n. Total Quantity
			No.	Type	
3625 13 12625	3/31/2014	Non-Hazardous, Non-Regulated Soil	1	DT	20
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print)		q. Signature		r. Date	

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: 4660 Flippin Street Las Vegas Nevada 89115 702-645-5848		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: 13330 US Highway 95 North Las Vegas Nevada 89165		c. US EPA Number	d. Discrepancy Indication Space:
b. I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)	f. Signature	g. Date	

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197192

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NERF) 510 Fourth Street Henderson, Nevada 89015 312-498-2800			e. Generator's Mailing Address: 35 E. Walker Dr. Ste 1150 Chicago, IL 60606		
f. Phone: Henderson, Nevada 89015 312-498-2800			g. Phone: Chicago, IL 60606		
If owner of the generating facility differs from the generator, provide:			i. Owner's Phone No.: 312-498-2800		
n. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No. Type		n. Total Quantity
3825 13 12625	3/31/2014	Non Hazardous, Non Regulated Soil	1	DT	20
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print)		q. Signature		r. Date	

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: 4660 Flaming Street Las Vegas Nevada 89115 702-645-5848		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: 13330 US Highway 93 North Las Vegas Nevada 89165		c. US EPA Number	d. Discrepancy Indication Space:
b. I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197198

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street Henderson, Nevada 89015 312-493-3300			e. Generator's Mailing Address: 35 E. Wacker Dr. Ste 1550 Chicago, IL 60606		
f. Phone: Henderson, Nevada 89015 312-493-3300			g. Phone: Chicago, IL 60606		
h. Owner's Name:			i. Owner's Phone No.: 312-493-3300		
If owner of the generating facility differs from the generator, provide:					
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No. Type		n. Total Quantity
3625 13 12625	3/31/2014	Non-Hazardous, Non-Regulated Soil	1	DT	20 Y
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
of ENVIRON acting as authorized agent for the NERT					
p. Generator Authorized Agent Name (Print)			q. Signature		r. Date

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: 1660 Flippin Street Las Vegas Nevada 89115 702-645-5948		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III-d-g)

a. Disposal Facility and Site Address: Apex Regional Landfill 1660 Flippin Street Las Vegas Nevada 89165		c. US EPA Number	d. Discrepancy Indication Space:
b. I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197249

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street Henderson, NV 89015 702-409-2800			e. Generator's Mailing Address: 35 E Wacker Dr Ste 1550 Chicago, IL 60606			
f. Phone:			g. Phone:			
If owner of the generating facility differs from the generator, provide:						
h. Owner's Name:			i. Owner's Phone No.: 702-409-2800			
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3625 13 12575	5/7/2014	ACMSoil	1	DT	20	Y
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.						
p. Generator Authorized Agent Name (Print)			q. Signature		r. Date	

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Wenbo 4660 Flippin Street, Las Vegas NV 702-465-5848		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date
GEO	[Signature]	10/3/13

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Apey Regional Landfill 13550 U.S. Highway 93 North, LV NV 89165	b.	c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)	f. Signature	g. Date	

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address: Construction Inc. 6428 Windy Road Las Vegas, NV 89165 702-243-2500	b. Phone:	c. Responsible Agency Name and Address: PO Box 3902 Las Vegas, NV 702-759-0660	d. Phone:
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)	h. Signature	i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197190

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street Henderson, Nevada 89015 312-498-2800			e. Generator's Mailing Address: 35 E. Wacker Dr. Ste 1550 Chicago, IL 60606		
f. Phone: Henderson, Nevada 89015 312-498-2800			g. Phone: Chicago, IL 60606		
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.: 312-498-2800		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No. Type		n. Total Quantity
3825 13 12625	3/31/2014	Non-Hazardous, Non-Regulated Soil	1	DT	20
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print) NERT			q. Signature		r. Date 03/13/13

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Wentz 1660 Flippin Street Las Vegas Nevada 89115 702-645-5348		
b. Phone:		
c. Driver Name (Print) GFC	d. Signature GFC	e. Date 03/13

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Apex Regional Landfill 19330 US Highway 93 North Las Vegas Nevada 89165		c. US EPA Number	d. Discrepancy Indication Space:
b. I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197197

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street Henderson, Nevada 89015 (702-499-2800)			e. Generator's Mailing Address: 39 E. Wacker Dr Ste 1850 Chicago, IL 60606		
f. Phone:			g. Phone:		
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.: 312-493-2800		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No. Type		n. Total Quantity
3825 13 12625	3/31/2011	Non Hazardous, Non Regulated Soil	1	DT	20 Y
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print)			q. Signature		r. Date

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: 660 4660 Flippin Street Las Vegas Nevada 89115 702-645-5848		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date
GEO	[Signature]	10/3/13

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Apex Regional Landfill 13324 U.S. Highway 93 North Las Vegas Nevada 89165		c. US EPA Number	d. Discrepancy Indication Space:
b. I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197188

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Inst (NERI) 510 Fourth Street Las Vegas, NV 89105 702-499-2800			e. Generator's Mailing Address: 35 E. Wacker Dr Ste 1950 Chicago, IL 60606		
f. Phone:			g. Phone:		
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #		k. Exp. Date	l. Waste Shipping Name and Description		m. Containers No. Type
325 D 1265		3/1/2014	Non Hazardous, Non Regulated Soil		20 Y

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)		q. Signature		r. Date	
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II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Wendco 4600 Flaming Street Las Vegas Nevada 89115 702-645-5348			
b. Phone:			
c. Driver Name (Print)		d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Ape Regional Landfill 1224 U.S. Highway 93 North Las Vegas Nevada 89155		c. US EPA Number	d. Discrepancy Indication Space:
b.			

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)		f. Signature	g. Date
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IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			

f. Friable Non-Friable Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)		h. Signature	i. Date
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*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197194

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NER T) 310 Fourth Street Henderson, Nevada 89015 312 498-2800			e. Generator's Mailing Address: 35 E. Walker Dr. Ste 1550 Chicago, IL 60606		
f. Phone: Henderson, Nevada 89015 312 498-2800			g. Phone: Chicago, IL 60606		
If owner of the generating facility differs from the generator, provide:			i. Owner's Phone No.: 312-498-2800		
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No. Type		n. Total Quantity
3825 13 12625	3/31/2014	Non Hazardous, Non Regulated Soil	1	DT	20
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print)		q. Signature		r. Date	

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: 1660 Flinders Street Las Vegas Nevada 89115 702-645-5948		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: 1530 D'S. Highway 9000 Las Vegas Nevada 89165		c. US EPA Number	d. Discrepancy Indication Space:
b. I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197189

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: Nevada Environmental Response Trust (NER T) 510 Fourth Street Henderson, Nevada 89015 312-498-2900			e. Generator's Mailing Address: 35 E. Wacker Dr Ste 1550 Chicago, IL 60606			
f. Phone:			g. Phone:			
If owner of the generating facility differs from the generator, provide:						
h. Owner's Name:			i. Owner's Phone No.: 312-498-2900			
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	Type	n. Total Quantity	o. Unit Wt/Vol
3625 13 12625	3/31/2014	Non-Hazardous, Non-Regulated Soil	1	DT	20	Y
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.						
p. Generator Authorized Agent Name (Print)			q. Signature		r. Date	

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: 1660 Flinnin Street Las Vegas Nevada 89115 702-645-5949		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Nevada Regional Landfill 1330 U.S. Highway 93 North Las Vegas Nevada 89165		c. US EPA Number	d. Discrepancy Indication Space:
b. I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197186

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

Form I: Generator information including US EPA ID Number, Manifest Document Number, Generator's Name and Location, Mailing Address, Phone, and Waste Profile #.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Name and Address, Phone, Driver Name, Signature, and Date.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

Form III: Destination information including Disposal Facility and Site Address, US EPA Number, Discrepancy Indication Space, and Authorized Agent details.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Asbestos handling information including Operator's Name and Address, Responsible Agency Name and Address, Special Handling Instructions, and Operator's Certification.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197247

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 310 Fourth Street Henderson, NV 89015 712-498-2800			e. Generator's Mailing Address: 35 E. Wacker Dr. Ste 1150 Chicago, IL 60605		
f. Phone:			g. Phone:		
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #		k. Exp. Date	l. Waste Shipping Name and Description		m. Containers No. Type
3825 13 12575		5/7/2014	ACMSoil		20 Y
n. Total Quantity					
o. Unit Wt/Vol					
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print) NERT			q. Signature of ENVIRON acting as authorized agent for the NERT		r. Date 12/12/12

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Wendco 4660 Flippin Street, Las Vegas NV 702-465-5848		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Apex Regional Landfill 13550 U.S. Highway 93 North, LV NV 89165		b.	c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.				
e. Name of Authorized Agent (Print)		f. Signature		g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address: Walker Specialty Construction Inc. 6428 Windy Road Las Vegas, NV 89165 702-243-2500		c. Responsible Agency Name and Address: Southern Nevada Health District PO Box 3902 Las Vegas, NV 702-759-0660	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197203

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

Form I: Generator information including US EPA ID Number, Manifest Document Number, Generator's Name and Location, Mailing Address, Phone, and Waste Profile details.

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

Form I continued: Generator Authorized Agent Name (Print), Signature, and Date.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Name and Address, Phone, Driver Name (Print), Signature, and Date.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

Form III: Disposal Facility and Site Address, US EPA Number, Discrepancy Indication Space, and Authorized Agent information.

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Form III continued: Name of Authorized Agent (Print), Signature, and Date.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Operator's Name and Address, Responsible Agency Name and Address, Phone, and Special Handling Instructions and Additional Information.

f. Friable Non-Friable Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Form IV continued: Operator's Name and Title (Print), Signature, and Date.

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197201

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: Nevada Environmental Response Trust (INERT) 510 Fourth Street Henderson, Nevada 89015 312-498-2800			e. Generator's Mailing Address: 35 E. Wacker Dr. Ste 1550 Chicago, IL 60606			
f. Phone:			g. Phone:			
h. Owner's Name:			i. Owner's Phone No.: 312-498-2800			
If owner of the generating facility differs from the generator, provide:						
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3825 13 12625	3/31/2014	Non-Hazardous, Non-Regulated Soil	1	BT	28	Y
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.						
p. Generator Authorized Agent Name (Print)		q. Signature		r. Date		

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: 4660 Flippin Street Las Vegas Nevada 89115 702-645-5848		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date
GEO	<i>[Signature]</i>	10/3/13

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: 13324 US Highway 93 North Las Vegas Nevada 89165		c. US EPA Number	d. Discrepancy Indication Space:
b. I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197202

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NERF) 510 Fourth Street Henderson, Nevada 89015 702-498-2800			e. Generator's Mailing Address: 35 E. Walker Dr Ste 1550 Chicago, IL 60606		
f. Phone:			g. Phone:		
h. Owner's Name:			i. Owner's Phone No.: 702-498-2800		
If owner of the generating facility differs from the generator, provide:					
j. Waste Profile #		k. Exp. Date	l. Waste Shipping Name and Description		m. Containers
					No. Type
3625 13 12625		3/31/2014	Non-Hazardous, Non-Regulated Soil		1 DT
					n. Total Quantity
					o. Unit Wt/Vol
					3
					Y
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
of ENVIRO acting as authorized agent for the NERF					
p. Generator Authorized Agent Name (Print)			q. Signature		r. Date

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Meridian 4660 Flaming Street Las Vegas Nevada 89115 702-645-5848		
b. Phone:		
c. Driver Name (Print) Kandy		d. Signature Kandy
		e. Date 10/3/13

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Ape Regional Landfill 15000 I-15 Highway Exit 1000 Las Vegas Nevada 89165		c. US EPA Number	d. Discrepancy Indication Space:
b.			
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	i. Date
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197200

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street Henderson, Nevada 89015 312-498-2800			e. Generator's Mailing Address: 35 E. Wackerly St Ste 1550 Chicago, IL 60606			
f. Phone: Henderson, Nevada 89015 312-498-2800			g. Phone: Chicago, IL 60606			
h. Owner's Name:			i. Owner's Phone No.: 312-498-2800			
If owner of the generating facility differs from the generator, provide:						
j. Waste Profile #		k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	n. Total Quantity	o. Unit Wt/Vol
3625 B 12625		3/31/2014	Non-Hazardous, Non-Regulated Soil	1	20	Y
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.						
p. Generator Authorized Agent Name (Print)			q. Signature		r. Date	

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: 4660 Flaming Street Las Vegas Nevada 89115 702-645-5848		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: 1330115 Highway 91 North Las Vegas Nevada 89105		c. US EPA Number	d. Discrepancy Indication Space:
b. I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197246

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street			e. Generator's Mailing Address: 35 E. Wacker Drive (Ste 152) Chicago, IL 60601			
f. Phone:			g. Phone:			
If owner of the generating facility differs from the generator, provide:						
h. Owner's Name:			i. Owner's Phone No.: 312-400-2800			
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3825 13 12575	5/7/2014	ACM Sol	1	DT	20	Y
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.						
p. Generator Authorized Agent Name (Print) John Wilson			q. Signature		r. Date	

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Wendco 4660 Hippin Street, Las Vegas NV 702-465-5848		
b. Phone:		
c. Driver Name (Print) Greg B...	d. Signature	e. Date 10-3-13

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Ape: Regional Landfill 13550 U.S. Highway 93 North, LV NV 89165		b.	c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.				
e. Name of Authorized Agent (Print)		f. Signature		g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address: Walker Specialty Construction Inc. 6428 Windy Road Las Vegas, NV 89165 702-243-2500		c. Responsible Agency Name and Address: Southern Nevada Health District PO Box 3902 Las Vegas, NV 702-759-0660	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197185

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street Henderson, Nevada 89015 312-493-2800			e. Generator's Mailing Address: 35 E. Wacker Dr. Ste 1550 Chicago, IL 60606		
f. Phone:		g. Phone:			
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.: 312-493-2800		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	n. Total Quantity	o. Unit Wt/Vol
3825 13 12625	3/31/2014	Non-Hazardous, Non-Regulated Soil	1	01	20 Y
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print) Nancy Smith of ENVIRON acting as authorized agent for the NERT			q. Signature		r. Date

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Wendy 4600 Flaming Street Las Vegas Nevada 89115 702-645-5848		
b. Phone:		
c. Driver Name (Print) Brett BAJIK	d. Signature	e. Date 10-3-13

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: Apex Regional Landfill 13200 US HIGHWAY 93 NORTH Las Vegas Nevada 89165		c. US EPA Number	d. Discrepancy Indication Space:
b. I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197193

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street Las Vegas, Nevada 89015 702-400-2000			e. Generator's Mailing Address: 35 E. Wacker Dr. Ste 1550 Chicago, IL 60605			
f. Phone:			g. Phone:			
If owner of the generating facility differs from the generator, provide:						
h. Owner's Name:			i. Owner's Phone No.: 312-468-2800			
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	Type	n. Total Quantity	o. Unit Wt/Vol
3825 13 12625	3/31/2014	Non Hazardous, Non Regulated Soil	1	DT	20	Y
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.						
p. Generator Authorized Agent Name (Print)		q. Signature		r. Date		

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Wendco 4660 Flippin Street Las Vegas Nevada 89115 702-645-5848		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Apex Regional Landfill 13220 US Highway 93 North Las Vegas Nevada 89165		c. US EPA Number	d. Discrepancy Indication Space:
b. I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197248

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 310 Fourth Street Henderson, NV 89015 312-498-2800			e. Generator's Mailing Address: 35 E. Wacker Dr Ste 1550 Chicago, IL 60606		
f. Phone:			g. Phone:		
If owner of the generating facility differs from the generator, provide:			i. Owner's Phone No.: 312-498-2800		
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No. Type		n. Total Quantity
3825 13 12575	5/7/2014	ACM Soil	1	DT	20 Y
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print)		q. Signature		r. Date	

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: 4660 Flippin Street, Las Vegas NV 702-465-5848		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: 13550 U.S. Highway 93 North, LV NV 89165		c. US EPA Number	d. Discrepancy Indication Space:
b. I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address: 6428 Windy Road Las Vegas, NV 89165 702-243-2500		c. Responsible Agency Name and Address: PO Box 3902 Las Vegas, NV 702-759-0660	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197187

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street Henderson, Nevada 89015 312-488-2800			e. Generator's Mailing Address: 15 E. Wacker Dr. Ste 1570 Chicago, IL 60606			
f. Phone: Henderson, Nevada 89015 312-488-2800			g. Phone: Chicago, IL 60606			
If owner of the generating facility differs from the generator, provide:						
h. Owner's Name:			i. Owner's Phone No.: 312-488-2800			
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	Type	n. Total Quantity	o. Unit Wt/Vol
3825 13 12625	3/31/2014	Non Hazardous, Non Regulated Soil	1	DT	20	Y
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.						
p. Generator Authorized Agent Name (Print): <i>Nita Chan</i> of ENVIRON acting as authorized agent for the NERT						
q. Signature			r. Date			

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Wardco 4660 Flippin Street Las Vegas Nevada 89115 702-645-5848		
b. Phone: 702-645-5848		
c. Driver Name (Print): <i>Handy</i>	d. Signature: <i>Handy</i>	e. Date: <i>10/18/13</i>

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Ape Regional Landfill 13300 U.S. Highway 93 North Las Vegas Nevada 89165		c. US EPA Number	d. Discrepancy Indication Space:
b. I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197195

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street Las Vegas, Nevada 89015 312-498-2300			e. Generator's Mailing Address: 75 E. Wackerly St. 1550 Chicago, IL 60605		
f. Phone:			g. Phone:		
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.: 312-498-2300		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No. Type		n. Total Quantity
3825 13 12625	3/31/2014	Non Hazardous, Non Regulated Soil	1	DT	20 Y
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print)			q. Signature		r. Date

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: 4660 Flinn Street Las Vegas Nevada 89115 702-645-5848		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: 13500 D'S Highway, 93111 Las Vegas Nevada 89165		c. US EPA Number	d. Discrepancy Indication Space:
b. I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197243

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street Las Vegas, NV 89015 702-408-2300			e. Generator's Mailing Address: 35 E. Wacker Dr. Ste. 1550 Chicago, IL 60606			
f. Phone:			g. Phone:			
If owner of the generating facility differs from the generator, provide:						
h. Owner's Name:			i. Owner's Phone No.: 702-408-2300			
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	Type	n. Total Quantity	o. Unit Wt/Vol
3025 13 12575	1/1/2010	ACM Soil	1	DT	20	Y
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.						
p. Generator Authorized Agent Name (Print): [Signature]				q. Signature		r. Date

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Wendco 4660 Flippin Street, Las Vegas NV 702-465-5848		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Apex Regional Landfill 13550 U.S. Highway 93 North, LV NV 89165	b.	c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)	f. Signature	g. Date	

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address: Walker Specialty Construction Inc 6423 Windy Road Las Vegas, NV 89165 702-240-2500		c. Responsible Agency Name and Address: Southern Nevada Health District PO Box 3902 Las Vegas, NV 702-759-0660	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197218

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street 710 Fourth Street			e. Generator's Mailing Address: 35 E. 1st St. Ste. 1550 Chicago, IL 60606		
f. Phone: 702-409-2000		g. Phone: Chicago, IL 60606			
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.: 712-409-2000		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers		n. Total Quantity
			No.	Type	
3825 13 12625	30172014	Non Hazardous, Non Regulated Soil	1	DT	20

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

Wendy of ENVIRON acting as authorized agent for the NERT.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
		10-04-13

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Wendy 4660 Flaming Street Las Vegas Nevada 89115		
b. Phone: 702-645-5848		
c. Driver Name (Print)	d. Signature	e. Date
		10-04-13

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: App. Regional Landfill 13390 US Highway 93 North Las Vegas Nevada 89165	b.	c. US EPA Number	d. Discrepancy Indication Space:
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I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	b. Phone:	c. Responsible Agency Name and Address:	d. Phone:
e. Special Handling Instructions and Additional Information:			

f. Friable Non-Friable Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197216

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street Henderson, Nevada 89015 312-499-2900			e. Generator's Mailing Address: 35 E Wacker Dr. Ste 1550 Chicago, IL 60606		
f. Phone: 312-499-2900			g. Phone: 312-499-2900		
h. Owner's Name:			i. Owner's Phone No.: 312-499-2900		
If owner of the generating facility differs from the generator, provide:					
j. Waste Profile #		k. Exp. Date	l. Waste Shipping Name and Description		m. Containers
3025 13 12025		3/31/2014	Non Hazardous, Non Regulated Soil		No. Type
					20 Y

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)		q. Signature		r. Date	
--	--	--------------	--	---------	--

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Wendco 4060 Flamingo Street Las Vegas Nevada 89115 702-645-5549		c. Driver Name (Print)		d. Signature		e. Date	
b. Phone: 702-645-5549		TOSF				12-1-13	

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Apex Regional Landfill 1300 U.S. Highway 93 North Las Vegas Nevada 89165		c. US EPA Number		d. Discrepancy Indication Space:		
b. I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.						
e. Name of Authorized Agent (Print)			f. Signature			g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:		
b. Phone:		d. Phone:		
e. Special Handling Instructions and Additional Information:				
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable				
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.				
g. Operator's Name and Title (Print)		h. Signature		i. Date
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both				



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197215

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street Henderson, Nevada 89015 312-498-2800			e. Generator's Mailing Address: 35 E. Wacker Dr. Ste 1550 Chicago, IL 60606		
f. Phone: Henderson, Nevada 89015 312-498-2800			g. Phone: Chicago, IL 60606		
h. Owner's Name:			i. Owner's Phone No.: 312-498-2800		
j. Waste Profile #			k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No. Type
3875 13 12625			7/31/2014	Non Hazardous, Non Regulated Soil	1 DT 20 Y

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)		q. Signature		r. Date
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II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Wardco 4660 Flippin Street Las Vegas Nevada 89115			b. Phone: 702-645-5848
c. Driver Name (Print)	d. Signature	e. Date: 10/4/13	

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: Agg. Regional Landfill 13320 US Highway 93 North Las Vegas Nevada 89165		c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both		i. Date	



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197222

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 710 Fourth Street Henderson, Nevada 89015 312-498-3800			e. Generator's Mailing Address: 35 E. Wacker Dr Ste 1550 Chicago, IL 60606		
f. Phone: Henderson, Nevada 89015 312-498-3800			g. Phone: Chicago, IL 60606		
h. Owner's Name:			i. Owner's Phone No.: 312-498-3800		
If owner of the generating facility differs from the generator, provide:					
j. Waste Profile #		k. Exp. Date	l. Waste Shipping Name and Description		m. Containers No. Type
325 13 12625		3/31/2014	Non Hazardous, Non Regulated Soil		20 Y

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)		q. Signature		r. Date	
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II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: 4660 Flaming Street Las Vegas Nevada 89115 702-645-5848		
b. Phone:		
c. Driver Name (Print)		d. Signature
		e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: 18231 W. Sahara Blvd Las Vegas Nevada 89165		c. US EPA Number	d. Discrepancy Indication Space:
b. I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	i. Date
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197223

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street Henderson, Nevada 89015 312-498-2900			e. Generator's Mailing Address: 35 E. Wacker Dr. Ste 1550 Chicago, IL 60606		
f. Phone: Henderson, Nevada 89015 312-498-2900			g. Phone: Chicago, IL 60606		
If owner of the generating facility differs from the generator, provide:			i. Owner's Phone No.: 312-498-2900		
h. Owner's Name:					
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	n. Total Quantity	o. Unit Wt/Vol
3825 13 12625	3/31/2014	Non Hazardous, Non Regulated Soil	1	20	Y

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
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II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: 4660 Flavin Street Las Vegas Nevada 89115 702-645-5848		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: 1520 US Highway 93 North Las Vegas Nevada 89165		c. US EPA Number	d. Discrepancy Indication Space:
b. I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)	f. Signature	g. Date	

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:	d. Phone:		
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both		% Friable	% Non-Friable
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both		i. Date	



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197208

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street Henderson, Nevada 89015 312-493-2600			e. Generator's Mailing Address: 35 E. Wacker Dr. Ste 1550 Chicago, IL 60605		
f. Phone: Henderson, Nevada 89015 312-493-2600			g. Phone: Chicago, IL 60605		
h. Owner's Name:			i. Owner's Phone No.: 312-493-2600		
j. Waste Profile #			k. Exp. Date	l. Waste Shipping Name and Description	o. Unit Wt/Vol
3625 13 12625		3/31/2014	Non Hazardous, Non Regulated Soil		Y

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
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II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Verdco 4560 Flinton Street Las Vegas Nevada 89115 702-645-5848		
b. Phone:	702-645-5848	
c. Driver Name (Print)	d. Signature	e. Date: 10-04-13

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Ape Regional Landfill 10001 U.S. Highway 93 North Las Vegas Nevada 89165	b.	c. US EPA Number	d. Discrepancy Indication Space:
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I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
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IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	b. Phone:	c. Responsible Agency Name and Address:	d. Phone:
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date
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*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197207

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 310 Fourth Street Henderson, Nevada 89015 312-493-2800			e. Generator's Mailing Address: 35 E. Wacker Dr. Ste 1550 Chicago, IL 60606		
f. Phone: Henderson, Nevada 89015 312-493-2800			g. Phone: Chicago, IL 60606		
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.: 312-493-2800		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No. Type		n. Total Quantity
3625 13 12625	3/31/2014	Non Hazardous, Non Regulated Soil	1	DT	20

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

of LIVERMORE acting as authorized agent for the NERT.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
		10/10/13

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: 4660 Flaming Street Las Vegas Nevada 89115 702-645-5848		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date
GEO		10/10/13

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: Area Regional Landfill 15300 S. Highway 23 North Las Vegas Nevada 89165		b.	c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.				
e. Name of Authorized Agent (Print)		f. Signature		g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:	d. Phone:		
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197206

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street Henderson, Nevada 89015 702-498-2600			e. Generator's Mailing Address: 35 E. Wacker Dr. Ste 1550 Chicago, IL 60605			
f. Phone:			g. Phone:			
If owner of the generating facility differs from the generator, provide:			i. Owner's Phone No.: 312-498-2600			
h. Owner's Name:						
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
625 13 13635	7/31/2011	Non-Hazardous, Non-Regulated soil	1	DR	20	Y

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

Signature of ENVIRON acting as authorized agent for the NERT

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Wardco 4660 Flinton Street Las Vegas Nevada 89115 702-645-5848	
b. Phone:	
c. Driver Name (Print) Jose Hinojosa	d. Signature [Signature]
e. Date 10-4-13	

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: App. Regional Landfill 10000 S. Highway 15 North Las Vegas Nevada 89165	b.	c. US EPA Number	d. Discrepancy Indication Space:
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I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
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IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
b. Phone:	d. Phone:
e. Special Handling Instructions and Additional Information:	

f. Friable Non-Friable Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date
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*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197205

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street Henderson, Nevada 89015 312-499-2800			e. Generator's Mailing Address: 35 E. Wacker Dr Ste 1550 Chicago, IL 60606		
f. Phone: 312-499-2800			g. Phone: 312-499-2800		
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:					
i. Owner's Phone No.: 312-499-2800					
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description		m. Containers No.	n. Total Quantity
3825 13 12625	3/31/2014	Non Hazardous, Non Regulated Soil		1	20
				DT	Y

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

of ENVIRON acting as authorized agent for the NERT.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
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II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Wentco 4600 Flaming Street Las Vegas Nevada 89115 702-645-5848		
b. Phone: 702-645-5848		
c. Driver Name (Print)	d. Signature	e. Date: 10-04-13

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Agos Regional Landfill 1950 W. Flaming Ave Las Vegas Nevada 89165		b.	c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.				
e. Name of Authorized Agent (Print)		f. Signature		g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197220

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street			e. Generator's Mailing Address: 35 E. Washen Dr. Ste 1550 Chicago, IL 60606		
f. Phone: 702-498-2800			g. Phone: 312-498-2800		
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.: 312-498-2800		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	n. Total Quantity	o. Unit Wt/Vol
3825 13 12625	3/31/2014	Non Hazardous, Non Regulated Soil	1	20	Y
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print) Wendy Lamm			q. Signature		r. Date 10/14/13

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Wendoo 4660 Flippin Street Las Vegas Nevada 89115		
b. Phone: 702-645-5848		
c. Driver Name (Print) GEO	d. Signature	e. Date 10/14/13

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Apex Regional Landfill 13330 I-15 Highway 44 North Las Vegas Nevada 89165	c. US EPA Number	d. Discrepancy Indication Space:
b. I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.		
e. Name of Authorized Agent (Print)	f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
b. Phone:	d. Phone:
e. Special Handling Instructions and Additional Information:	
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable	
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.	
g. Operator's Name and Title (Print)	i. Date
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both	



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197219

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street Henderson, Nevada 89015 702-488-2800			e. Generator's Mailing Address: 35 E Wacker Dr Ste 1550 Chicago, IL 60605		
f. Phone:			g. Phone:		
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.: 702-488-2800		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	n. Total Quantity	o. Unit Wt/Vol
3625 13 12625	3/1/2014	Non Hazardous, Non Regulated Soil	1	DT	20 Y
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print): <i>Maria Sanna</i>			q. Signature: <i>[Signature]</i>		r. Date: <i>07/14/14</i>

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Wendco 1660 Flaming Street Las Vegas Nevada 89115 702-645-5848		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Apex Regional Landfill 13000 U.S. Highway 93 North Las Vegas Nevada 89165	c. US EPA Number	d. Discrepancy Indication Space:
b. I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.		
e. Name of Authorized Agent (Print)	f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197257

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street			e. Generator's Mailing Address: 35 E. Wackerly Ste 1550 Chicago, IL 60606			
f. Phone:		g. Phone:				
If owner of the generating facility differs from the generator, provide:			i. Owner's Phone No.:			
h. Owner's Name:			i. Owner's Phone No.:			
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	Type	n. Total Quantity	o. Unit Wt/Vol
3625 13 12575	5/7/2014	ACM Soil	1	DT	30	Y
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.						
p. Generator Authorized Agent Name (Print)		q. Signature		r. Date		

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Wendro 4660 Flippin Street, Las Vegas NV 702-465-5848		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Apey Regional Landfill 13550 U.S. Highway 93 North, LV NV 89165		c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address: 6428 Windy Road Las Vegas, NV 89165 702-243-2500		c. Responsible Agency Name and Address: Las Vegas, NV 702-759-0660	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197221

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 310 Fourth Street Henderson, Nevada 89015 312-498-2800			e. Generator's Mailing Address: 35 E. Wacker Dr. Ste 1550 Chicago, IL 60606		
f. Phone: 312-498-2800			g. Phone: 312-498-2800		
h. Owner's Name:			i. Owner's Phone No.: 312-498-2800		
j. Waste Profile #			k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No. Type
3625 13-12625			3/31/2014	Non Hazardous, Non Regulated Soil	1 DT
					n. Total Quantity 20
					o. Unit Wt/Vol Y

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print) of ENVIRON acting as authorized agent for the NERT		q. Signature	r. Date
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II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Wardco 4660 Flippin Street Las Vegas Nevada 89115		
b. Phone: 702-645-5848		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Apex Regional Landfill 1350 US Highway 43 North Las Vegas Nevada 89165		c. US EPA Number	d. Discrepancy Indication Space:
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I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
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IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			

f. Friable Non-Friable Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date
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*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197204

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NER-T) 510 Fourth Street Henderson, Nevada 89015 312-498-2800			e. Generator's Mailing Address: 35 E. Wacker Dr Ste 1550 Chicago, IL 60606		
f. Phone:			g. Phone:		
h. Owner's Name:			i. Owner's Phone No.: 312-498-2800		
j. Waste Profile #			k. Exp. Date	l. Waste Shipping Name and Description	
3825 13 12625		3/31/2014	Non Hazardous, Non Regulated Soil		
			m. Containers No.		n. Total Quantity
			1		20
			o. Unit Wt/Vol		Y

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)		q. Signature	r. Date
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II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: 4660 Flaming Street Las Vegas Nevada 89115 702-645-5848		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: 15301 HWY 89 NORTH Las Vegas Nevada 89165		c. US EPA Number	d. Discrepancy Indication Space:
b. I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)		h. Signature	i. Date
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197209

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NER T) 510 Fourth Street Henderson, Nevada 89015 312-498-2800			e. Generator's Mailing Address: 35 E. Wacker Dr Ste 1550 Chicago, IL 60606		
f. Phone:			g. Phone:		
h. Owner's Name:			i. Owner's Phone No.: 312-498-2800		
If owner of the generating facility differs from the generator, provide:					
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No. Type		n. Total Quantity
3625 13 12625	3/31/2014	Non Hazardous, Non Regulated Soil	1	DT	20

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
		10/04/13

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: 4660 Flippin Street Las Vegas Nevada 89115 702-645-5848		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date
		10-04-13

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: APE Regional Landfill 13224 US Highway 89 North Las Vegas Nevada 89165	b.	c. US EPA Number	d. Discrepancy Indication Space:
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I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			

f. Friable Non-Friable Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197214

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street Henderson, Nevada 89015 312-498-2800			e. Generator's Mailing Address: 35 E. Walker Dr. Ste 1550 Chicago, IL 60606			
f. Phone:			g. Phone:			
If owner of the generating facility differs from the generator, provide:			i. Owner's Phone No.: 312-498-2800			
h. Owner's Name:			i. Owner's Phone No.:			
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers		n. Total Quantity	o. Unit Wt/Vol
			No.	Type		
3625 13 12625	3/31/2014	Non-Hazardous, Non-Regulated Soil	1	DT	20	Y
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.						
p. Generator Authorized Agent Name (Print)			q. Signature		r. Date	

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: 4660 Flamingo Street Las Vegas Nevada 89115 702-645-5848		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: 1550 S. Durbin Ave. North Las Vegas Nevada 89165		c. US EPA Number	d. Discrepancy Indication Space:
b. I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		i. Date	
h. Signature		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197213

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

Form I: Generator information including EPA ID Number, Manifest Document Number, Generator Name and Location, Mailing Address, Phone numbers, and Waste Profile table.

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

Form I continued: Generator Authorized Agent Name (Print), Signature, and Date.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Name and Address, Phone, Driver Name (Print), Signature, and Date.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

Form III: Destination information including Disposal Facility and Site Address, US EPA Number, Discrepancy Indication Space, and Name of Authorized Agent (Print), Signature, and Date.

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Form III continued: Name of Authorized Agent (Print), Signature, and Date.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Asbestos information including Operator's Name and Address, Responsible Agency Name and Address, Phone numbers, and Special Handling Instructions and Additional Information.

f. [] Friable [] Non-Friable [] Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Form IV continued: Operator's Name and Title (Print), Signature, and Date.

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197212

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street			e. Generator's Mailing Address: 35 E Wacker Dr Ste 1580 Chicago, IL 60606		
f. Phone:			g. Phone:		
If owner of the generating facility differs from the generator, provide:			i. Owner's Phone No.:		
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No. Type		n. Total Quantity
3025 13 10025	03/10/14	Non Hazardous, Non Regulated Soil	1	DT	20
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print) N. S. Shum of ENVIRON acting as authorized agent for the NERT			q. Signature		r. Date

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Wardco 4660 Flaming Street Las Vegas Nevada 89115			b. Phone: 702-645-5848		
c. Driver Name (Print)			d. Signature		e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Agas Regional Landfill Las Vegas Nevada 89165		b.	c. US EPA Number	d. Discrepancy Indication Space:	
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.					
e. Name of Authorized Agent (Print)			f. Signature		g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:			
b. Phone:		d. Phone:			
e. Special Handling Instructions and Additional Information:					
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable					
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
g. Operator's Name and Title (Print)			h. Signature		i. Date
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both					



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197211

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street			e. Generator's Mailing Address: 35 E. Wacker Dr. Ste 1550 Chicago, IL 60606		
f. Phone:			g. Phone:		
h. Owner's Name:			i. Owner's Phone No.:		
If owner of the generating facility differs from the generator, provide:					
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	n. Total Quantity	o. Unit Wt/Vol
3825-13-12025	3/31/2014	Non Hazardous, Non Regulated Soil	1	20	Y

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print) of ENVIRON acting as authorized agent for the NERT	q. Signature	r. Date
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II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Wendco 4660 Flippin Street Las Vegas Nevada 89115		
b. Phone: 702-645-5048		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: Apex Regional Landfill 19920 US Highway 93 North Las Vegas Nevada 89165	b. c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.		
e. Name of Authorized Agent (Print)	f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1197210

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: Nevada Environmental Response Trust (NERT) 510 Fourth Street			e. Generator's Mailing Address: 35 E Walker Dr Ste 1350 Chicago, IL 60606			
f. Phone:			g. Phone:			
If owner of the generating facility differs from the generator, provide:						
h. Owner's Name:			i. Owner's Phone No.: 312-408-7800			
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers		n. Total Quantity	o. Unit Wt/Vol
			No.	Type		
325 H 1225	3/31/2014	Non-Hazardous, Non-Regulated Soil	1	DT	20	Y

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print) A. ENVRON acting as authorized agent for the NERT		q. Signature	r. Date
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II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Wendco 4660 Flavin Street Las Vegas Nevada 89115 702-645-5848		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: 15501 134th Avenue Las Vegas Nevada 89165	c. US EPA Number	d. Discrepancy Indication Space:
b. I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.		
e. Name of Authorized Agent (Print)	f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			

f. Friable Non-Friable Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date
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*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

Detail Customer Activity Report

October 01, 2013 to October 08, 2013

Specific Customer: 1031

All Ticket Types

History and Waiting

001031- ENVIRON INTERNATIONAL CORP

Ticket Date	Facility & Ticket	Contract	Truck #	Container	Material	Billing Quantity
10/02/2013	I 81	37669 3825 13 12625	89896P	1197183	SW CONTAMINATED SOIL	F 19.92 TN
10/02/2013	I 81	37670 3825 13 12625	85487P	1197180	SW CONTAMINATED SOIL	F 19.38 TN
10/02/2013	I 81	37671 3825 13 12625	92148P	1197184	SW CONTAMINATED SOIL	F 19.27 TN
10/02/2013	I 81	37672 3825 13 12625	77286P	1197181	SW CONTAMINATED SOIL	F 20.02 TN
10/02/2013	I 81	37677 3825 13 12575	89896P	1197233	ASBESTOS NONFRIABLE	F 23.92 TN
10/02/2013	I 81	37678 3825 13 12575	92148P	1197235	ASBESTOS NONFRIABLE	F 27.25 TN
10/02/2013	I 81	37679 3825 13 12575	77286P	1197236	ASBESTOS NONFRIABLE	F 23.20 TN
10/02/2013	I 81	37682 3825 13 12575	85487P	1197228	ASBESTOS NONFRIABLE	F 23.10 TN
10/02/2013	I 81	37685 3825 13 12575	85487P	1197242	ASBESTOS NONFRIABLE	F 22.76 TN
10/02/2013	I 81	37686 3825 13 12575	77286P	1197241	ASBESTOS NONFRIABLE	F 21.11 TN
10/02/2013	I 81	37687 3825 13 12575	92148P	1197238	ASBESTOS NONFRIABLE	F 19.20 TN
10/02/2013	I 81	37688 3825 13 12575	89896P	1197239	ASBESTOS NONFRIABLE	F 24.47 TN
10/02/2013	I 81	37692 3825 13 12575	77286P	1197244	ASBESTOS NONFRIABLE	F 19.53 TN
10/03/2013	I 81	37697 3825 13 12575	92338P	1197247	ASBESTOS NONFRIABLE	F 21.15 TN
10/03/2013	I 81	37699 3825 13 12575	89896P	1197246	ASBESTOS NONFRIABLE	F 18.51 TN
10/03/2013	I 81	37701 3825 13 12575	93051P	1197243	ASBESTOS NONFRIABLE	F 21.57 TN
10/03/2013	I 81	37702 3825 13 12575	92148P	1197249	ASBESTOS NONFRIABLE	F 18.33 TN
10/03/2013	I 81	37704 3825 13 12575	77286P	1197248	ASBESTOS NONFRIABLE	F 22.20 TN
10/03/2013	I 81	37707 3825 13 12625	92338P	1197186	SW CONTAMINATED SOIL	F 21.05 TN
10/03/2013	I 81	37708 3825 13 12625	92148P	1197190	SW CONTAMINATED SOIL	F 17.54 TN
10/03/2013	I 81	37709 3825 13 12625	93051P	1197196	SW CONTAMINATED SOIL	F 18.96 TN
10/03/2013	I 81	37710 3825 13 12625	89896P	1197185	SW CONTAMINATED SOIL	F 18.20 TN
10/03/2013	I 81	37712 3825 13 12625	77286P	1197187	SW CONTAMINATED SOIL	F 19.98 TN
10/03/2013	I 81	37714 3825 13 12625	92148P	1197188	SW CONTAMINATED SOIL	F 17.71 TN
10/03/2013	I 81	37715 3825 13 12625	92338P	1197189	SW CONTAMINATED SOIL	F 24.85 TN
10/03/2013	I 81	37718 3825 13 12625	92337P	1197193	SW CONTAMINATED SOIL	F 22.92 TN
10/03/2013	I 81	37720 3825 13 12625	93051P	1197192	SW CONTAMINATED SOIL	F 22.07 TN
10/03/2013	I 81	37721 3825 13 12625	77286P	1197195	SW CONTAMINATED SOIL	F 20.63 TN
10/03/2013	I 81	37723 3825 13 12625	92148P	1197197	SW CONTAMINATED SOIL	F 22.49 TN
10/03/2013	I 81	37724 3825 13 12625	92338P	1197194	SW CONTAMINATED SOIL	F 20.77 TN
10/03/2013	I 81	37727 3825 13 12625	93051P	1197198	SW CONTAMINATED SOIL	F 21.46 TN
10/03/2013	I 81	37728 3825 13 12625	92337P	1197200	SW CONTAMINATED SOIL	F 21.41 TN
10/03/2013	I 81	37729 3825 13 12625	92148P	1197201	SW CONTAMINATED SOIL	F 20.35 TN
10/03/2013	I 81	37730 3825 13 12625	92338P	1197203	SW CONTAMINATED SOIL	F 20.36 TN
10/03/2013	I 81	37732 3825 13 12625	77286P	1197202	SW CONTAMINATED SOIL	F 20.13 TN

Ticket Date	Facility & Ticket	Contract	Truck #	Container	Material	Billing Quantity
10/04/2013	I 81 37743 3825 13 12625		91596P	1197204	SW CONTAMINATED SOIL	F 23.82 TN
10/04/2013	I 81 37744 3825 13 12625		89896P	1197205	SW CONTAMINATED SOIL	F 22.22 TN
10/04/2013	I 81 37747 3825 13 12625		92148P	1197207	SW CONTAMINATED SOIL	F 21.13 TN
001031 - ENVIRON INTERNATIONAL CORP						
Ticket Date	Facility & Ticket	Contract	Truck #	Container	Material	Billing Quantity
10/04/2013	I 81 37748 3825 13 12625		87774P	1197206	SW CONTAMINATED SOIL	F 21.18 TN
10/04/2013	I 81 37749 3825 13 12625		89980P	1197208	SW CONTAMINATED SOIL	F 18.14 TN
10/04/2013	I 81 37755 3825 13 12625		77286P	1197210	SW CONTAMINATED SOIL	F 17.97 TN
10/04/2013	I 81 37760 3825 13 12625		91596P	1197211	SW CONTAMINATED SOIL	F 19.79 TN
10/04/2013	I 81 37761 3825 13 12625		89896P	1197212	SW CONTAMINATED SOIL	F 23.25 TN
10/04/2013	I 81 37762 3825 13 12625		92148P	1197213	SW CONTAMINATED SOIL	F 17.15 TN
10/04/2013	I 81 37765 3825 13 12625		87774P	1197214	SW CONTAMINATED SOIL	F 13.95 TN
10/04/2013	I 81 37766 3825 13 12625		89980P	1197209	SW CONTAMINATED SOIL	F 18.41 TN
10/04/2013	I 81 37772 3825 13 12625		91596P	1197223	SW CONTAMINATED SOIL	F 20.20 TN
10/04/2013	I 81 37777 3825 13 12625		92148P	1197215	SW CONTAMINATED SOIL	F 13.16 TN
10/04/2013	I 81 37778 3825 13 12625		89896P	1197222	SW CONTAMINATED SOIL	F 20.45 TN
10/04/2013	I 81 37779 3825 13 12625		87774P	1197216	SW CONTAMINATED SOIL	F 19.09 TN
10/04/2013	I 81 37782 3825 13 12625		89980P	1197218	SW CONTAMINATED SOIL	F 13.82 TN
10/04/2013	I 81 37786 3825 13 12625		91596P	1197219	SW CONTAMINATED SOIL	F 21.76 TN
10/04/2013	I 81 37792 3825 13 12625		92148P	1197220	SW CONTAMINATED SOIL	F 16.01 TN
10/04/2013	I 81 37793 3825 13 12625		89896P	1197221	SW CONTAMINATED SOIL	F 19.53 TN
10/04/2013	I 81 37796 3825 13 12575		87774P	1197257	ASBESTOS NONFRIABLE	F 18.66 TN

Customer Totals:

Tickets 55 Items Reported: 55

Material Summary

	Weight		Volume		Count		Billing Quantity
	Inbound	Outbound	Inbound	Outbound	Inbound	Outbound	
VD - ASBESTOS	324.96	0.00 TN	0.00	0.00 Y	0.00	0.00	324.96 TN
VG - SW	790.50	0.00 TN	0.00	0.00 Y	0.00	0.00	790.50 TN

Tickets Reported: 55 Items Reported: 55

Appendix G
Analytical Laboratory Reports and Chain-of-Custody Documentation

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-58969-1

TestAmerica Sample Delivery Group: 21-32100 E-E01

Client Project/Site: East End Beta Ditch

For:

ENVIRON International Corp.

2200 Powell Street

Suite 700

Emeryville, California 94608

Attn: Mr. Dan Clark



Authorized for release by:

10/15/2013 4:11:33 PM

Sushmitha Reddy, Project Manager I

(949)261-1022

sushmitha.reddy@testamericainc.com

LINKS

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results through

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Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: ENVIRON International Corp.
Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1
SDG: 21-32100 E-E01

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-58969-1	EBD-100713-B	Solid	10/07/13 07:30	10/08/13 10:25
440-58969-2	EBD-100713-N-SW	Solid	10/07/13 07:40	10/08/13 10:25
440-58969-3	EBD-100713-W-SW	Solid	10/07/13 07:50	10/08/13 10:25
440-58969-4	EBD-100713-S-SW	Solid	10/07/13 08:00	10/08/13 10:25

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Case Narrative

Client: ENVIRON International Corp.
Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1
SDG: 21-32100 E-E01

Job ID: 440-58969-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative 440-58969-1

Comments

No additional comments.

Receipt

The samples were received on 10/8/2013 10:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.2° C.

HPLC

Method(s) 314.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 136622 in perchlorate were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. (440-58969-1 MS), (440-58969-1 MSD)

Method(s) 9056: The continuing calibration verification (CCV) for phosphate associated with batch 136257 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

Method(s) 9056: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for phosphate in batch 136257 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 9056: The laboratory control sample (LCS) for batch 136257 recovered outside control limits for the following analyte: phosphate. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No other analytical or quality issues were noted.

GC Semi VOA

Method(s) 8081A: Surrogate recovery for the following sample(s) was outside control limits: EBD-100713-N-SW (440-58969-2), EBD-100713-S-SW (440-58969-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8081A: The matrix spike (MS) recoveries associated with batch 136344 were outside control limits: (440-58969-1 MS), (440-58969-1 MSD). Matrix interference is suspected. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8081A: The continuing calibration verification (CCV) associated with batch 136370 recovered outside acceptance criteria, low biased, for 4,4-DDT and Methoxychlor. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. Any samples containing hits for either compound were re-analyzed. (CCV 440-136370/28), EBD-100713-B (440-58969-1), EBD-100713-N-SW (440-58969-2), EBD-100713-S-SW (440-58969-4), EBD-100713-W-SW (440-58969-3)

Method(s) 8082: The following sample(s) required a dilution due to the nature of the sample matrix: EBD-100713-S-SW (440-58969-4). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information. EBD-100713-S-SW (440-58969-4)

Method(s) 8082: The following sample(s) was diluted due to the abundance of non-target analytes: EBD-100713-S-SW (440-58969-4). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Metals

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 136445 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. Analyte affected: Barium.

No other analytical or quality issues were noted.

Case Narrative

Client: ENVIRON International Corp.
Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1
SDG: 21-32100 E-E01

Job ID: 440-58969-1 (Continued)

Laboratory: TestAmerica Irvine (Continued)

General Chemistry

Method(s) 9034: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 136468 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

Subcontract non-Sister

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

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Client Sample Results

Client: ENVIRON International Corp.
Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1
SDG: 21-32100 E-E01

Client Sample ID: EBD-100713-B

Lab Sample ID: 440-58969-1

Date Collected: 10/07/13 07:30

Matrix: Solid

Date Received: 10/08/13 10:25

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
4,4'-DDE	44		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
4,4'-DDT	15		9.9	3.0	ug/Kg		10/09/13 10:13	10/10/13 14:53	2
Aldrin	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
alpha-BHC	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
beta-BHC	2.1	J p	5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
Chlordane (technical)	ND		50	9.9	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
delta-BHC	ND		9.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
Dieldrin	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
Endosulfan I	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
Endosulfan II	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
Endrin	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
Endrin ketone	ND		5.0	2.0	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
Heptachlor	ND		5.0	2.0	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
Methoxychlor	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
Toxaphene	ND		200	50	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	66		35 - 115				10/09/13 10:13	10/09/13 19:27	1
<i>DCB Decachlorobiphenyl (Surr)</i>	93		45 - 120				10/09/13 10:13	10/09/13 19:27	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		10/09/13 10:13	10/09/13 17:40	1
Aroclor 1221	ND		50	12	ug/Kg		10/09/13 10:13	10/09/13 17:40	1
Aroclor 1232	ND		50	12	ug/Kg		10/09/13 10:13	10/09/13 17:40	1
Aroclor 1242	ND		50	12	ug/Kg		10/09/13 10:13	10/09/13 17:40	1
Aroclor 1248	ND		50	12	ug/Kg		10/09/13 10:13	10/09/13 17:40	1
Aroclor 1254	ND		50	12	ug/Kg		10/09/13 10:13	10/09/13 17:40	1
Aroclor 1260	ND		50	12	ug/Kg		10/09/13 10:13	10/09/13 17:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl (Surr)</i>	57		45 - 120				10/09/13 10:13	10/09/13 17:40	1

Method: 314.0 - Perchlorate (IC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.92		0.40	0.095	mg/Kg			10/12/13 05:30	10

Method: 7199 - Chromium, Hexavalent (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.80	0.15	mg/Kg		10/09/13 15:06	10/10/13 05:23	10

Method: 9056 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	2.6		1.1	0.80	mg/Kg			10/09/13 03:24	1
Nitrite as N	ND		1.5	1.1	mg/Kg			10/09/13 03:24	1
Orthophosphate as P	ND	*	1.6	1.3	mg/Kg			10/09/13 03:24	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1
SDG: 21-32100 E-E01

Client Sample ID: EBD-100713-B

Lab Sample ID: 440-58969-1

Date Collected: 10/07/13 07:30

Matrix: Solid

Date Received: 10/08/13 10:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.3		3.0	1.5	mg/Kg		10/09/13 14:09	10/09/13 18:49	5
Manganese	470		2.0	0.99	mg/Kg		10/09/13 14:09	10/09/13 18:49	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.43	mg/Kg		10/09/13 15:40	10/09/13 19:49	1
Sulfide	ND		40	20	mg/Kg		10/09/13 15:44	10/09/13 15:48	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.77		0.100	0.100	SU			10/09/13 13:13	1
Oxidation Reduction Potential	430		0.10	0.10	millivolts			10/09/13 13:13	1

Client Sample ID: EBD-100713-N-SW

Lab Sample ID: 440-58969-2

Date Collected: 10/07/13 07:40

Matrix: Solid

Date Received: 10/08/13 10:25

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
4,4'-DDE	21		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
4,4'-DDT	23		9.8	2.9	ug/Kg		10/09/13 10:13	10/10/13 15:08	2
Aldrin	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
alpha-BHC	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
beta-BHC	17		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
Chlordane (technical)	ND		49	9.8	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
delta-BHC	ND		9.8	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
Dieldrin	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
Endosulfan I	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
Endosulfan II	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
Endosulfan sulfate	ND		9.8	2.0	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
Endrin	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
Endrin ketone	ND		4.9	2.0	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
Heptachlor	ND		4.9	2.0	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
Methoxychlor	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
Toxaphene	ND		200	49	ug/Kg		10/09/13 10:13	10/09/13 19:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		35 - 115	10/09/13 10:13	10/09/13 19:41	1
DCB Decachlorobiphenyl (Surr)	143	X	45 - 120	10/09/13 10:13	10/09/13 19:41	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	12	ug/Kg		10/09/13 10:13	10/09/13 17:56	1
Aroclor 1221	ND		49	12	ug/Kg		10/09/13 10:13	10/09/13 17:56	1
Aroclor 1232	ND		49	12	ug/Kg		10/09/13 10:13	10/09/13 17:56	1
Aroclor 1242	ND		49	12	ug/Kg		10/09/13 10:13	10/09/13 17:56	1
Aroclor 1248	ND		49	12	ug/Kg		10/09/13 10:13	10/09/13 17:56	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1
SDG: 21-32100 E-E01

Client Sample ID: EBD-100713-N-SW

Lab Sample ID: 440-58969-2

Date Collected: 10/07/13 07:40

Matrix: Solid

Date Received: 10/08/13 10:25

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1254	ND		49	12	ug/Kg		10/09/13 10:13	10/09/13 17:56	1
Aroclor 1260	ND		49	12	ug/Kg		10/09/13 10:13	10/09/13 17:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	115		45 - 120				10/09/13 10:13	10/09/13 17:56	1

Method: 314.0 - Perchlorate (IC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	46		4.0	0.95	mg/Kg			10/12/13 08:41	100

Method: 7199 - Chromium, Hexavalent (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.25	J	0.79	0.15	mg/Kg		10/09/13 15:06	10/10/13 05:48	10

Method: 9056 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	16		1.1	0.80	mg/Kg			10/09/13 03:39	1
Nitrite as N	ND		1.5	1.1	mg/Kg			10/09/13 03:39	1
Orthophosphate as P	ND	*	1.6	1.3	mg/Kg			10/09/13 03:39	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.4		3.0	1.5	mg/Kg		10/09/13 14:09	10/09/13 17:51	5
Manganese	550		2.0	1.0	mg/Kg		10/09/13 14:09	10/09/13 17:51	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.43	mg/Kg		10/09/13 15:40	10/09/13 19:49	1
Sulfide	ND		40	20	mg/Kg		10/09/13 15:44	10/09/13 15:48	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.49		0.100	0.100	SU			10/09/13 13:14	1
Oxidation Reduction Potential	450		0.10	0.10	millivolts			10/09/13 13:13	1

Client Sample ID: EBD-100713-W-SW

Lab Sample ID: 440-58969-3

Date Collected: 10/07/13 07:50

Matrix: Solid

Date Received: 10/08/13 10:25

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
4,4'-DDE	4.9		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
4,4'-DDT	3.0	J	4.9	1.5	ug/Kg		10/09/13 10:13	10/10/13 15:22	1
Aldrin	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
alpha-BHC	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
beta-BHC	8.2		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
Chlordane (technical)	ND		49	9.9	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
delta-BHC	ND		9.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
Dieldrin	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
Endosulfan I	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:10	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1
SDG: 21-32100 E-E01

Client Sample ID: EBD-100713-W-SW

Lab Sample ID: 440-58969-3

Date Collected: 10/07/13 07:50

Matrix: Solid

Date Received: 10/08/13 10:25

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
Endrin	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
Endrin ketone	ND		4.9	2.0	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
Heptachlor	ND		4.9	2.0	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
Methoxychlor	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
Toxaphene	ND		200	49	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	56		35 - 115				10/09/13 10:13	10/09/13 20:10	1
DCB Decachlorobiphenyl (Surr)	92		45 - 120				10/09/13 10:13	10/09/13 20:10	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	12	ug/Kg		10/09/13 10:13	10/09/13 18:26	1
Aroclor 1221	ND		49	12	ug/Kg		10/09/13 10:13	10/09/13 18:26	1
Aroclor 1232	ND		49	12	ug/Kg		10/09/13 10:13	10/09/13 18:26	1
Aroclor 1242	ND		49	12	ug/Kg		10/09/13 10:13	10/09/13 18:26	1
Aroclor 1248	ND		49	12	ug/Kg		10/09/13 10:13	10/09/13 18:26	1
Aroclor 1254	ND		49	12	ug/Kg		10/09/13 10:13	10/09/13 18:26	1
Aroclor 1260	ND		49	12	ug/Kg		10/09/13 10:13	10/09/13 18:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	81		45 - 120				10/09/13 10:13	10/09/13 18:26	1

Method: 314.0 - Perchlorate (IC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	42		4.0	0.95	mg/Kg			10/12/13 09:23	100

Method: 7199 - Chromium, Hexavalent (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.79	0.15	mg/Kg		10/09/13 15:06	10/10/13 06:14	10

Method: 9056 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	16		1.1	0.80	mg/Kg			10/09/13 03:53	1
Nitrite as N	ND		1.5	1.1	mg/Kg			10/09/13 03:53	1
Orthophosphate as P	ND	*	1.6	1.3	mg/Kg			10/09/13 03:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.4		3.0	1.5	mg/Kg		10/09/13 14:09	10/09/13 17:53	5
Manganese	740		2.0	0.99	mg/Kg		10/09/13 14:09	10/09/13 17:53	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.43	mg/Kg		10/09/13 15:40	10/09/13 19:49	1
Sulfide	ND		40	20	mg/Kg		10/09/13 15:44	10/09/13 15:48	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1
SDG: 21-32100 E-E01

Client Sample ID: EBD-100713-W-SW

Lab Sample ID: 440-58969-3

Date Collected: 10/07/13 07:50

Matrix: Solid

Date Received: 10/08/13 10:25

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.49		0.100	0.100	SU			10/09/13 13:14	1
Oxidation Reduction Potential	440		0.10	0.10	millivolts			10/09/13 13:13	1

Client Sample ID: EBD-100713-S-SW

Lab Sample ID: 440-58969-4

Date Collected: 10/07/13 08:00

Matrix: Solid

Date Received: 10/08/13 10:25

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	13		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:25	1
4,4'-DDE	1300		200	60	ug/Kg		10/09/13 10:13	10/10/13 16:15	40
4,4'-DDT	940		99	30	ug/Kg		10/09/13 10:13	10/10/13 15:37	20
Aldrin	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:25	1
alpha-BHC	2.8	J	5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:25	1
beta-BHC	37		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:25	1
Chlordane (technical)	ND		50	9.9	ug/Kg		10/09/13 10:13	10/09/13 20:25	1
delta-BHC	ND		9.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:25	1
Dieldrin	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:25	1
Endosulfan I	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:25	1
Endosulfan II	200		99	30	ug/Kg		10/09/13 10:13	10/10/13 15:37	20
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		10/09/13 10:13	10/09/13 20:25	1
Endrin	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:25	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:25	1
Endrin ketone	11		5.0	2.0	ug/Kg		10/09/13 10:13	10/09/13 20:25	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:25	1
Heptachlor	ND		5.0	2.0	ug/Kg		10/09/13 10:13	10/09/13 20:25	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		10/09/13 10:13	10/09/13 20:25	1
Methoxychlor	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:25	1
Toxaphene	ND		200	50	ug/Kg		10/09/13 10:13	10/09/13 20:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	62		35 - 115				10/09/13 10:13	10/09/13 20:25	1
DCB Decachlorobiphenyl (Surr)	125	X	45 - 120				10/09/13 10:13	10/09/13 20:25	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		990	240	ug/Kg		10/09/13 10:13	10/10/13 10:16	20
Aroclor 1221	ND		990	240	ug/Kg		10/09/13 10:13	10/10/13 10:16	20
Aroclor 1232	ND		990	240	ug/Kg		10/09/13 10:13	10/10/13 10:16	20
Aroclor 1242	ND		990	240	ug/Kg		10/09/13 10:13	10/10/13 10:16	20
Aroclor 1248	ND		990	240	ug/Kg		10/09/13 10:13	10/10/13 10:16	20
Aroclor 1254	ND		990	240	ug/Kg		10/09/13 10:13	10/10/13 10:16	20
Aroclor 1260	ND		990	240	ug/Kg		10/09/13 10:13	10/10/13 10:16	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	121	X	45 - 120				10/09/13 10:13	10/10/13 10:16	20

Method: 314.0 - Perchlorate (IC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	6.2		0.40	0.095	mg/Kg			10/12/13 10:06	10

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1
SDG: 21-32100 E-E01

Client Sample ID: EBD-100713-S-SW

Lab Sample ID: 440-58969-4

Date Collected: 10/07/13 08:00

Matrix: Solid

Date Received: 10/08/13 10:25

Method: 7199 - Chromium, Hexavalent (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.52	J	0.79	0.15	mg/Kg		10/09/13 15:06	10/10/13 07:04	10

Method: 9056 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	9.6		1.1	0.80	mg/Kg			10/09/13 04:08	1
Nitrite as N	ND		1.5	1.1	mg/Kg			10/09/13 04:08	1
Orthophosphate as P	ND	*	1.6	1.3	mg/Kg			10/09/13 04:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.3		3.0	1.5	mg/Kg		10/09/13 14:09	10/09/13 18:13	5
Manganese	1100		2.0	0.99	mg/Kg		10/09/13 14:09	10/09/13 17:55	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.49	0.42	mg/Kg		10/09/13 15:40	10/09/13 19:49	1
Sulfide	ND		40	20	mg/Kg		10/09/13 15:44	10/09/13 15:48	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.63		0.100	0.100	SU			10/09/13 13:14	1
Oxidation Reduction Potential	430		0.10	0.10	millivolts			10/09/13 13:13	1

Method Summary

Client: ENVIRON International Corp.
Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1
SDG: 21-32100 E-E01

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
314.0	Perchlorate (IC)	EPA	TAL IRV
7199	Chromium, Hexavalent (IC)	SW846	TAL IRV
9056	Anions, Ion Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV
9014	Cyanide	SW846	TAL IRV
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL IRV
9045C	pH	SW846	TAL IRV
SM 2580B	Reduction-Oxidation (REDOX) Potential	SM	TAL IRV
Asbestos PLM	Asbestos	NONE	EMLab

Protocol References:

EPA = US Environmental Protection Agency

NONE = NONE

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EMLab = EMLab - Irvine, Bascom Airport Executive Suites, 17461 Derian Ave, Suite 100, Irvine, CA 92614

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: ENVIRON International Corp.
Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1
SDG: 21-32100 E-E01

Client Sample ID: EBD-100713-B

Lab Sample ID: 440-58969-1

Date Collected: 10/07/13 07:30

Matrix: Solid

Date Received: 10/08/13 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.14 g	2 mL	136344	10/09/13 10:13	QCT	TAL IRV
Total/NA	Analysis	8082		1			136029	10/09/13 17:40	JM	TAL IRV
Total/NA	Prep	3546			15.14 g	2 mL	136344	10/09/13 10:13	QCT	TAL IRV
Total/NA	Analysis	8081A		1			136370	10/09/13 19:27	KS	TAL IRV
Total/NA	Analysis	8081A		2			136716	10/10/13 14:53	KS	TAL IRV
Soluble	Leach	DI Leach			4.00 g	40 mL	136255	10/08/13 22:58	CC	TAL IRV
Soluble	Analysis	9056		1	1 mL		136257	10/09/13 03:24	SP	TAL IRV
Total/NA	Prep	3060A			1.25 g	50 mL	136456	10/09/13 15:06	RW	TAL IRV
Total/NA	Analysis	7199		10			136317	10/10/13 05:23	NC	TAL IRV
Soluble	Leach	DI Leach			3.99 g	40 mL	136449	10/09/13 14:42	CH	TAL IRV
Soluble	Analysis	314.0		10	1 mL		136941	10/12/13 05:30	CH	TAL IRV
Total/NA	Prep	3050B			2.03 g	50 mL	136445	10/09/13 14:09	DT	TAL IRV
Total/NA	Analysis	6010B		5			136532	10/09/13 18:49	TK	TAL IRV
Soluble	Analysis	9045C		1		20 mL	136430	10/09/13 13:13	TR	TAL IRV
Soluble	Leach	DI Leach			19.92 g	20 mL	136232	10/08/13 20:00	TR	TAL IRV
Soluble	Analysis	SM 2580B		1		20 mL	136433	10/09/13 13:13	TR	TAL IRV
Total/NA	Prep	9030B			5.03 g	50 mL	136466	10/09/13 15:44	ACAN	TAL IRV
Total/NA	Analysis	9034		1			136468	10/09/13 15:48	ACAN	TAL IRV
Total/NA	Prep	9010B			2.01 g	50 mL	136465	10/09/13 15:40	BT	TAL IRV
Total/NA	Analysis	9014		1			136540	10/09/13 19:49	BT	TAL IRV

Client Sample ID: EBD-100713-N-SW

Lab Sample ID: 440-58969-2

Date Collected: 10/07/13 07:40

Matrix: Solid

Date Received: 10/08/13 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.31 g	2 mL	136344	10/09/13 10:13	QCT	TAL IRV
Total/NA	Analysis	8082		1			136029	10/09/13 17:56	JM	TAL IRV
Total/NA	Prep	3546			15.31 g	2 mL	136344	10/09/13 10:13	QCT	TAL IRV
Total/NA	Analysis	8081A		1			136370	10/09/13 19:41	KS	TAL IRV
Total/NA	Analysis	8081A		2			136716	10/10/13 15:08	KS	TAL IRV
Soluble	Leach	DI Leach			4.02 g	40 mL	136255	10/08/13 22:58	CC	TAL IRV
Soluble	Analysis	9056		1	1 mL		136257	10/09/13 03:39	SP	TAL IRV
Total/NA	Prep	3060A			1.26 g	50 mL	136456	10/09/13 15:06	RW	TAL IRV
Total/NA	Analysis	7199		10			136317	10/10/13 05:48	NC	TAL IRV
Soluble	Leach	DI Leach			3.99 g	40 mL	136449	10/09/13 14:42	CH	TAL IRV
Soluble	Analysis	314.0		100	1 mL		136941	10/12/13 08:41	CH	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	136445	10/09/13 14:09	DT	TAL IRV
Total/NA	Analysis	6010B		5			136522	10/09/13 17:51	TK	TAL IRV
Soluble	Leach	DI Leach			19.99 g	20 mL	136232	10/08/13 20:00	TR	TAL IRV
Soluble	Analysis	9045C		1		20 mL	136430	10/09/13 13:14	TR	TAL IRV
Soluble	Analysis	SM 2580B		1		20 mL	136433	10/09/13 13:13	TR	TAL IRV
Total/NA	Prep	9030B			5.04 g	50 mL	136466	10/09/13 15:44	ACAN	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: ENVIRON International Corp.
Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1
SDG: 21-32100 E-E01

Client Sample ID: EBD-100713-N-SW

Lab Sample ID: 440-58969-2

Date Collected: 10/07/13 07:40

Matrix: Solid

Date Received: 10/08/13 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9034		1			136468	10/09/13 15:48	ACAN	TAL IRV
Total/NA	Prep	9010B			2.02 g	50 mL	136465	10/09/13 15:40	BT	TAL IRV
Total/NA	Analysis	9014		1			136540	10/09/13 19:49	BT	TAL IRV

Client Sample ID: EBD-100713-W-SW

Lab Sample ID: 440-58969-3

Date Collected: 10/07/13 07:50

Matrix: Solid

Date Received: 10/08/13 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.20 g	2 mL	136344	10/09/13 10:13	QCT	TAL IRV
Total/NA	Analysis	8082		1			136029	10/09/13 18:26	JM	TAL IRV
Total/NA	Analysis	8081A		1			136370	10/09/13 20:10	KS	TAL IRV
Total/NA	Prep	3546			15.20 g	2 mL	136344	10/09/13 10:13	QCT	TAL IRV
Total/NA	Analysis	8081A		1			136716	10/10/13 15:22	KS	TAL IRV
Soluble	Leach	DI Leach			4.00 g	40 mL	136255	10/08/13 22:58	CC	TAL IRV
Soluble	Analysis	9056		1	1 mL		136257	10/09/13 03:53	SP	TAL IRV
Total/NA	Prep	3060A			1.26 g	50 mL	136456	10/09/13 15:06	RW	TAL IRV
Total/NA	Analysis	7199		10			136317	10/10/13 06:14	NC	TAL IRV
Soluble	Leach	DI Leach			3.99 g	40 mL	136449	10/09/13 14:42	CH	TAL IRV
Soluble	Analysis	314.0		100	1 mL		136941	10/12/13 09:23	CH	TAL IRV
Total/NA	Prep	3050B			2.03 g	50 mL	136445	10/09/13 14:09	DT	TAL IRV
Total/NA	Analysis	6010B		5			136522	10/09/13 17:53	TK	TAL IRV
Soluble	Analysis	9045C		1		20 mL	136430	10/09/13 13:14	TR	TAL IRV
Soluble	Leach	DI Leach			20.04 g	20 mL	136232	10/08/13 20:00	TR	TAL IRV
Soluble	Analysis	SM 2580B		1		20 mL	136433	10/09/13 13:13	TR	TAL IRV
Total/NA	Prep	9030B			5.02 g	50 mL	136466	10/09/13 15:44	ACAN	TAL IRV
Total/NA	Analysis	9034		1			136468	10/09/13 15:48	ACAN	TAL IRV
Total/NA	Prep	9010B			2.02 g	50 mL	136465	10/09/13 15:40	BT	TAL IRV
Total/NA	Analysis	9014		1			136540	10/09/13 19:49	BT	TAL IRV

Client Sample ID: EBD-100713-S-SW

Lab Sample ID: 440-58969-4

Date Collected: 10/07/13 08:00

Matrix: Solid

Date Received: 10/08/13 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.08 g	2 mL	136344	10/09/13 10:13	QCT	TAL IRV
Total/NA	Analysis	8082		20			136029	10/10/13 10:16	JM	TAL IRV
Total/NA	Analysis	8081A		1			136370	10/09/13 20:25	KS	TAL IRV
Total/NA	Analysis	8081A		20			136716	10/10/13 15:37	KS	TAL IRV
Total/NA	Prep	3546			15.08 g	2 mL	136344	10/09/13 10:13	QCT	TAL IRV
Total/NA	Analysis	8081A		40			136716	10/10/13 16:15	KS	TAL IRV
Soluble	Leach	DI Leach			4.00 g	40 mL	136255	10/08/13 22:58	CC	TAL IRV
Soluble	Analysis	9056		1	1 mL		136257	10/09/13 04:08	SP	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: ENVIRON International Corp.
Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1
SDG: 21-32100 E-E01

Client Sample ID: EBD-100713-S-SW

Lab Sample ID: 440-58969-4

Date Collected: 10/07/13 08:00

Matrix: Solid

Date Received: 10/08/13 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			1.26 g	50 mL	136456	10/09/13 15:06	RW	TAL IRV
Total/NA	Analysis	7199		10			136317	10/10/13 07:04	NC	TAL IRV
Soluble	Leach	DI Leach			4.00 g	40 mL	136449	10/09/13 14:42	CH	TAL IRV
Soluble	Analysis	314.0		10	1 mL		136941	10/12/13 10:06	CH	TAL IRV
Total/NA	Analysis	6010B		5			136522	10/09/13 17:55	TK	TAL IRV
Total/NA	Prep	3050B			2.03 g	50 mL	136445	10/09/13 14:09	DT	TAL IRV
Total/NA	Analysis	6010B		5			136522	10/09/13 18:13	TK	TAL IRV
Soluble	Analysis	9045C		1		20 mL	136430	10/09/13 13:14	TR	TAL IRV
Soluble	Leach	DI Leach			20.12 g	20 mL	136232	10/08/13 20:00	TR	TAL IRV
Soluble	Analysis	SM 2580B		1		20 mL	136433	10/09/13 13:13	TR	TAL IRV
Total/NA	Prep	9030B			5.02 g	50 mL	136466	10/09/13 15:44	ACAN	TAL IRV
Total/NA	Analysis	9034		1			136468	10/09/13 15:48	ACAN	TAL IRV
Total/NA	Prep	9010B			2.03 g	50 mL	136465	10/09/13 15:40	BT	TAL IRV
Total/NA	Analysis	9014		1			136540	10/09/13 19:49	BT	TAL IRV

Laboratory References:

EMLab = EMLab - Irvine, Bascom Airport Executive Suites, 17461 Derian Ave, Suite 100, Irvine, CA 92614

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

QC Sample Results

Client: ENVIRON International Corp.
Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1
SDG: 21-32100 E-E01

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-136344/1-A
Matrix: Solid
Analysis Batch: 136370

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136344

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 18:28	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 18:28	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 18:28	1
Aldrin	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 18:28	1
alpha-BHC	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 18:28	1
beta-BHC	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 18:28	1
Chlordane (technical)	ND		50	10	ug/Kg		10/09/13 10:13	10/09/13 18:28	1
delta-BHC	ND		10	1.5	ug/Kg		10/09/13 10:13	10/09/13 18:28	1
Dieldrin	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 18:28	1
Endosulfan I	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 18:28	1
Endosulfan II	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 18:28	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		10/09/13 10:13	10/09/13 18:28	1
Endrin	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 18:28	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 18:28	1
Endrin ketone	ND		5.0	2.0	ug/Kg		10/09/13 10:13	10/09/13 18:28	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 18:28	1
Heptachlor	ND		5.0	2.0	ug/Kg		10/09/13 10:13	10/09/13 18:28	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		10/09/13 10:13	10/09/13 18:28	1
Methoxychlor	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 18:28	1
Toxaphene	ND		200	50	ug/Kg		10/09/13 10:13	10/09/13 18:28	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	66		35 - 115				10/09/13 10:13	10/09/13 18:28	1
DCB Decachlorobiphenyl (Surr)	90		45 - 120				10/09/13 10:13	10/09/13 18:28	1

Lab Sample ID: LCS 440-136344/2-A
Matrix: Solid
Analysis Batch: 136370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136344

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	33.3	27.7		ug/Kg		83	60 - 120
4,4'-DDE	33.3	27.5		ug/Kg		82	60 - 120
4,4'-DDT	33.3	27.7		ug/Kg		83	65 - 120
Aldrin	33.3	25.6		ug/Kg		77	50 - 115
alpha-BHC	33.3	24.6		ug/Kg		74	60 - 115
beta-BHC	33.3	26.4		ug/Kg		79	60 - 115
delta-BHC	33.3	26.8		ug/Kg		80	60 - 115
Dieldrin	33.3	27.1		ug/Kg		81	65 - 115
Endosulfan I	33.3	27.0		ug/Kg		81	40 - 120
Endosulfan II	33.3	27.5		ug/Kg		83	55 - 120
Endosulfan sulfate	33.3	25.7		ug/Kg		77	65 - 115
Endrin	33.3	24.6		ug/Kg		74	55 - 120
Endrin aldehyde	33.3	25.0		ug/Kg		75	55 - 115
Endrin ketone	33.3	30.3		ug/Kg		91	65 - 115
gamma-BHC (Lindane)	33.3	25.9		ug/Kg		78	55 - 115
Heptachlor	33.3	25.5		ug/Kg		77	55 - 115
Heptachlor epoxide	33.3	27.0		ug/Kg		81	55 - 115
Methoxychlor	33.3	25.8		ug/Kg		77	65 - 120

TestAmerica Irvine

QC Sample Results

Client: ENVIRON International Corp.
Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1
SDG: 21-32100 E-E01

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 440-136344/2-A
Matrix: Solid
Analysis Batch: 136370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136344

Surrogate	LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	77		35 - 115
DCB Decachlorobiphenyl (Surr)	100		45 - 120

Lab Sample ID: 440-58969-1 MS
Matrix: Solid
Analysis Batch: 136370

Client Sample ID: EBD-100713-B
Prep Type: Total/NA
Prep Batch: 136344

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
4,4'-DDD	ND		33.1	18.4		ug/Kg		56		40 - 130
4,4'-DDE	44		33.1	67.3	E	ug/Kg		70		35 - 130
4,4'-DDT	8.5		33.1	29.8		ug/Kg		64		35 - 130
Aldrin	ND		33.1	19.5		ug/Kg		59		40 - 115
alpha-BHC	ND		33.1	18.7		ug/Kg		56		40 - 115
beta-BHC	2.1	J p	33.1	22.8	p	ug/Kg		62		40 - 120
delta-BHC	ND		33.1	20.2		ug/Kg		61		45 - 120
Dieldrin	ND		33.1	21.5		ug/Kg		65		40 - 125
Endosulfan I	ND		33.1	19.9		ug/Kg		60		40 - 120
Endosulfan II	ND		33.1	21.8		ug/Kg		66		40 - 125
Endosulfan sulfate	ND		33.1	25.3		ug/Kg		76		45 - 120
Endrin	ND		33.1	20.0	p	ug/Kg		60		45 - 125
Endrin aldehyde	ND		33.1	18.6		ug/Kg		56		30 - 120
Endrin ketone	ND		33.1	24.1		ug/Kg		73		40 - 120
gamma-BHC (Lindane)	ND		33.1	19.6		ug/Kg		59		40 - 120
Heptachlor	ND		33.1	19.2		ug/Kg		58		40 - 115
Heptachlor epoxide	ND		33.1	17.0		ug/Kg		51		45 - 115
Methoxychlor	ND		33.1	20.4		ug/Kg		62		40 - 135

Surrogate	MS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	60		35 - 115
DCB Decachlorobiphenyl (Surr)	82		45 - 120

Lab Sample ID: 440-58969-1 MSD
Matrix: Solid
Analysis Batch: 136370

Client Sample ID: EBD-100713-B
Prep Type: Total/NA
Prep Batch: 136344

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	
	Result	Qualifier		Result	Qualifier						RPD	Limit
4,4'-DDD	ND		32.9	17.1		ug/Kg		52		40 - 130	7	30
4,4'-DDE	47		32.9	55.9	F	ug/Kg		28		35 - 130	18	30
4,4'-DDT	15		32.9	26.9		ug/Kg		35		35 - 130	10	30
Aldrin	ND		32.9	18.9		ug/Kg		57		40 - 115	3	30
alpha-BHC	ND		32.9	18.5		ug/Kg		56		40 - 115	1	30
beta-BHC	25	J p	32.9	20.8	p F	ug/Kg		-12		40 - 120	9	30
delta-BHC	ND		32.9	16.2		ug/Kg		49		45 - 120	22	30
Dieldrin	ND		32.9	20.6		ug/Kg		63		40 - 125	4	30
Endosulfan I	ND		32.9	17.0		ug/Kg		52		40 - 120	16	30
Endosulfan II	8.6		32.9	16.9	F	ug/Kg		25		40 - 125	25	30
Endosulfan sulfate	ND		32.9	24.2		ug/Kg		74		45 - 120	5	30
Endrin	8.7		32.9	18.6	p F	ug/Kg		30		45 - 125	7	30

TestAmerica Irvine

QC Sample Results

Client: ENVIRON International Corp.
Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1
SDG: 21-32100 E-E01

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 440-58969-1 MSD
Matrix: Solid
Analysis Batch: 136370

Client Sample ID: EBD-100713-B
Prep Type: Total/NA
Prep Batch: 136344

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Endrin aldehyde	ND		32.9	17.4		ug/Kg		53	30 - 120	7	30
Endrin ketone	ND		32.9	23.3		ug/Kg		71	40 - 120	4	30
gamma-BHC (Lindane)	ND		32.9	18.5		ug/Kg		56	40 - 120	6	30
Heptachlor	ND		32.9	18.4		ug/Kg		56	40 - 115	4	30
Heptachlor epoxide	ND		32.9	16.1		ug/Kg		49	45 - 115	6	30
Methoxychlor	ND		32.9	19.6		ug/Kg		60	40 - 135	4	30
Surrogate	%Recovery	Qualifier	Limits								
Tetrachloro-m-xylene	58		35 - 115								
DCB Decachlorobiphenyl (Surr)	82		45 - 120								

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-136344/1-A
Matrix: Solid
Analysis Batch: 136029

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136344

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aroclor 1016	ND		50	12	ug/Kg		10/09/13 10:13	10/09/13 16:39	1
Aroclor 1221	ND		50	12	ug/Kg		10/09/13 10:13	10/09/13 16:39	1
Aroclor 1232	ND		50	12	ug/Kg		10/09/13 10:13	10/09/13 16:39	1
Aroclor 1242	ND		50	12	ug/Kg		10/09/13 10:13	10/09/13 16:39	1
Aroclor 1248	ND		50	12	ug/Kg		10/09/13 10:13	10/09/13 16:39	1
Aroclor 1254	ND		50	12	ug/Kg		10/09/13 10:13	10/09/13 16:39	1
Aroclor 1260	ND		50	12	ug/Kg		10/09/13 10:13	10/09/13 16:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	70		45 - 120				10/09/13 10:13	10/09/13 16:39	1

Lab Sample ID: LCS 440-136344/5-A
Matrix: Solid
Analysis Batch: 136029

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136344

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Aroclor 1016	267	230		ug/Kg		86	65 - 115
Aroclor 1260	267	225		ug/Kg		85	65 - 115
Surrogate	%Recovery	Qualifier	Limits				
DCB Decachlorobiphenyl (Surr)	69		45 - 120				

Lab Sample ID: 440-58969-1 MS
Matrix: Solid
Analysis Batch: 136029

Client Sample ID: EBD-100713-B
Prep Type: Total/NA
Prep Batch: 136344

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				Limits
Aroclor 1016	ND		264	223		ug/Kg		84	50 - 120
Aroclor 1260	ND		264	174		ug/Kg		66	50 - 125

TestAmerica Irvine

QC Sample Results

Client: ENVIRON International Corp.
Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1
SDG: 21-32100 E-E01

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 440-58969-1 MS
Matrix: Solid
Analysis Batch: 136029

Client Sample ID: EBD-100713-B
Prep Type: Total/NA
Prep Batch: 136344

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	61		45 - 120

Lab Sample ID: 440-58969-1 MSD
Matrix: Solid
Analysis Batch: 136029

Client Sample ID: EBD-100713-B
Prep Type: Total/NA
Prep Batch: 136344

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec.		RPD	
				Result	Qualifier				Limits	RPD	Limit	
Aroclor 1016	ND		261	222		ug/Kg		85	50 - 120	1	30	
Aroclor 1260	ND		261	192		ug/Kg		74	50 - 125	10	30	

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	63		45 - 120

Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MRL 440-136941/2 MRL
Matrix: Solid
Analysis Batch: 136941

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL MRL		Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	
Perchlorate	4.00	3.17	J	ug/L		79	50 - 150	

Lab Sample ID: MB 440-136449/1-A
Matrix: Solid
Analysis Batch: 136941

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perchlorate	ND		0.040	0.0095	mg/Kg			10/12/13 04:48	1

Lab Sample ID: LCS 440-136449/2-A
Matrix: Solid
Analysis Batch: 136941

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	
Perchlorate	0.500	0.563		mg/Kg		113	85 - 115	

Lab Sample ID: 440-58969-1 MS
Matrix: Solid
Analysis Batch: 136941

Client Sample ID: EBD-100713-B
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec.	
				Result	Qualifier				Limits	
Perchlorate	0.92		0.500	1.39		mg/Kg		93	80 - 120	

QC Sample Results

Client: ENVIRON International Corp.
Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1
SDG: 21-32100 E-E01

Method: 314.0 - Perchlorate (IC) (Continued)

Lab Sample ID: 440-58969-1 MSD
Matrix: Solid
Analysis Batch: 136941

Client Sample ID: EBD-100713-B
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	0.92		0.499	1.37		mg/Kg		91	80 - 120	1	20

Method: 7199 - Chromium, Hexavalent (IC)

Lab Sample ID: MB 440-136456/1-A
Matrix: Solid
Analysis Batch: 136317

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136456

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.81	0.15	mg/Kg		10/09/13 15:05	10/09/13 23:07	10

Lab Sample ID: LCS 440-136456/2-A
Matrix: Solid
Analysis Batch: 136317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136456

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	16.1	13.6		mg/Kg		84	65 - 110

Lab Sample ID: 320-4270-A-1-C MS
Matrix: Solid
Analysis Batch: 136317

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 136456

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	ND		16.0	12.9		mg/Kg		81	55 - 110

Lab Sample ID: 320-4270-A-1-D MSD
Matrix: Solid
Analysis Batch: 136317

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 136456

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	ND		15.9	13.8		mg/Kg		87	55 - 110	7	20

Lab Sample ID: 320-4270-A-1-E MSI
Matrix: Solid
Analysis Batch: 136317

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 136456

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	ND		1890	1240		mg/Kg		66	55 - 110

Method: 9056 - Anions, Ion Chromatography

Lab Sample ID: MB 440-136255/1-A
Matrix: Solid
Analysis Batch: 136257

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		1.1	0.80	mg/Kg			10/09/13 01:58	1
Nitrite as N	ND		1.5	1.1	mg/Kg			10/09/13 01:58	1
Orthophosphate as P	ND		1.6	1.3	mg/Kg			10/09/13 01:58	1

TestAmerica Irvine

QC Sample Results

Client: ENVIRON International Corp.
Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1
SDG: 21-32100 E-E01

Method: 9056 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 440-136255/2-A
Matrix: Solid
Analysis Batch: 136257

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	11.3	10.9		mg/Kg		97	90 - 110
Nitrite as N	15.2	15.3		mg/Kg		100	90 - 110
Orthophosphate as P	16.3	20.4	*	mg/Kg		125	90 - 110

Lab Sample ID: 440-58902-A-1-B MS
Matrix: Solid
Analysis Batch: 136257

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	2.4		11.3	12.4		mg/Kg		89	80 - 120
Nitrite as N	ND		15.2	15.0		mg/Kg		99	80 - 120
Orthophosphate as P	ND		16.3	24.9	F	mg/Kg		153	80 - 120

Lab Sample ID: 440-58902-A-1-C MSD
Matrix: Solid
Analysis Batch: 136257

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	2.4		11.3	12.7		mg/Kg		91	80 - 120	3	20
Nitrite as N	ND		15.2	15.5		mg/Kg		102	80 - 120	3	20
Orthophosphate as P	ND		16.3	27.0	F	mg/Kg		166	80 - 120	8	20

Lab Sample ID: 440-58969-4 DU
Matrix: Solid
Analysis Batch: 136257

Client Sample ID: EBD-100713-S-SW
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	9.6		9.38		mg/Kg		3	20
Nitrite as N	ND		ND		mg/Kg		NC	20
Orthophosphate as P	ND	*	ND	*	mg/Kg		NC	20

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-136445/1-A ^5
Matrix: Solid
Analysis Batch: 136522

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136445

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		10/09/13 14:09	10/09/13 17:41	5
Manganese	ND		2.0	0.99	mg/Kg		10/09/13 14:09	10/09/13 17:41	5

Lab Sample ID: LCS 440-136445/2-A ^5
Matrix: Solid
Analysis Batch: 136522

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136445

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.5	45.7		mg/Kg		92	80 - 120
Manganese	49.5	49.9		mg/Kg		101	80 - 120

QC Sample Results

Client: ENVIRON International Corp.
Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1
SDG: 21-32100 E-E01

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-58969-1 MS
Matrix: Solid
Analysis Batch: 136522

Client Sample ID: EBD-100713-B
Prep Type: Total/NA
Prep Batch: 136445

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	Limits
Arsenic	4.3		50.0	49.6		mg/Kg		91	75 - 125	
Manganese	470		50.0	466	4	mg/Kg		-5	75 - 125	

Lab Sample ID: 440-58969-1 MSD
Matrix: Solid
Analysis Batch: 136522

Client Sample ID: EBD-100713-B
Prep Type: Total/NA
Prep Batch: 136445

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	Limits	RPD	Limit
Arsenic	4.3		50.0	49.8		mg/Kg		91	75 - 125	0	20	
Manganese	470		50.0	416	4	mg/Kg		-105	75 - 125	11	20	

Method: 9014 - Cyanide

Lab Sample ID: MB 440-136465/1-A
Matrix: Solid
Analysis Batch: 136540

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136465

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cyanide, Total	ND		0.020	0.017	mg/Kg		10/09/13 15:40	10/09/13 19:49	1

Lab Sample ID: LCS 440-136465/2-A
Matrix: Solid
Analysis Batch: 136540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136465

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	
							Result	Qualifier
Cyanide, Total	0.200	0.204		mg/Kg		102	90 - 110	

Lab Sample ID: 440-58969-4 MS
Matrix: Solid
Analysis Batch: 136540

Client Sample ID: EBD-100713-S-SW
Prep Type: Total/NA
Prep Batch: 136465

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	Limits
Cyanide, Total	ND		4.90	4.48		mg/Kg		91	70 - 115	

Lab Sample ID: 440-58969-4 MSD
Matrix: Solid
Analysis Batch: 136540

Client Sample ID: EBD-100713-S-SW
Prep Type: Total/NA
Prep Batch: 136465

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	Limits	RPD	Limit
Cyanide, Total	ND		4.98	4.45		mg/Kg		89	70 - 115	1	15	

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 440-136466/2-A
Matrix: Solid
Analysis Batch: 136468

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136466

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Sulfide	ND		40	20	mg/Kg		10/09/13 15:44	10/09/13 15:48	1

TestAmerica Irvine

QC Sample Results

Client: ENVIRON International Corp.
Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1
SDG: 21-32100 E-E01

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: LCS 440-136466/1-A
Matrix: Solid
Analysis Batch: 136468

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136466

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Sulfide	413	381		mg/Kg		92	80 - 120	

Lab Sample ID: 440-58969-4 MS
Matrix: Solid
Analysis Batch: 136468

Client Sample ID: EBD-100713-S-SW
Prep Type: Total/NA
Prep Batch: 136466

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Sulfide	ND		415	144	F	mg/Kg		35	70 - 130	

Lab Sample ID: 440-58969-4 MSD
Matrix: Solid
Analysis Batch: 136468

Client Sample ID: EBD-100713-S-SW
Prep Type: Total/NA
Prep Batch: 136466

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	Limit
Sulfide	ND		416	128	F	mg/Kg		31	70 - 130		12	30

Method: 9045C - pH

Lab Sample ID: 440-58969-1 DU
Matrix: Solid
Analysis Batch: 136430

Client Sample ID: EBD-100713-B
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	8.77		8.710		SU		0.7	2

Method: SM 2580B - Reduction-Oxidation (REDOX) Potential

Lab Sample ID: 440-58969-1 DU
Matrix: Solid
Analysis Batch: 136433

Client Sample ID: EBD-100713-B
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Oxidation Reduction Potential	430		428		millivolts		1	5

QC Association Summary

Client: ENVIRON International Corp.
Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1
SDG: 21-32100 E-E01

GC Semi VOA

Analysis Batch: 136029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-1	EBD-100713-B	Total/NA	Solid	8082	136344
440-58969-1 MS	EBD-100713-B	Total/NA	Solid	8082	136344
440-58969-1 MSD	EBD-100713-B	Total/NA	Solid	8082	136344
440-58969-2	EBD-100713-N-SW	Total/NA	Solid	8082	136344
440-58969-3	EBD-100713-W-SW	Total/NA	Solid	8082	136344
440-58969-4	EBD-100713-S-SW	Total/NA	Solid	8082	136344
LCS 440-136344/5-A	Lab Control Sample	Total/NA	Solid	8082	136344
MB 440-136344/1-A	Method Blank	Total/NA	Solid	8082	136344

Prep Batch: 136344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-1	EBD-100713-B	Total/NA	Solid	3546	
440-58969-1 MS	EBD-100713-B	Total/NA	Solid	3546	
440-58969-1 MS	EBD-100713-B	Total/NA	Solid	3546	
440-58969-1 MSD	EBD-100713-B	Total/NA	Solid	3546	
440-58969-1 MSD	EBD-100713-B	Total/NA	Solid	3546	
440-58969-2	EBD-100713-N-SW	Total/NA	Solid	3546	
440-58969-3	EBD-100713-W-SW	Total/NA	Solid	3546	
440-58969-4	EBD-100713-S-SW	Total/NA	Solid	3546	
LCS 440-136344/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 440-136344/5-A	Lab Control Sample	Total/NA	Solid	3546	
MB 440-136344/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 136370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-1	EBD-100713-B	Total/NA	Solid	8081A	136344
440-58969-1 MS	EBD-100713-B	Total/NA	Solid	8081A	136344
440-58969-1 MSD	EBD-100713-B	Total/NA	Solid	8081A	136344
440-58969-2	EBD-100713-N-SW	Total/NA	Solid	8081A	136344
440-58969-3	EBD-100713-W-SW	Total/NA	Solid	8081A	136344
440-58969-4	EBD-100713-S-SW	Total/NA	Solid	8081A	136344
LCS 440-136344/2-A	Lab Control Sample	Total/NA	Solid	8081A	136344
MB 440-136344/1-A	Method Blank	Total/NA	Solid	8081A	136344

Analysis Batch: 136716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-1	EBD-100713-B	Total/NA	Solid	8081A	136344
440-58969-2	EBD-100713-N-SW	Total/NA	Solid	8081A	136344
440-58969-3	EBD-100713-W-SW	Total/NA	Solid	8081A	136344
440-58969-4	EBD-100713-S-SW	Total/NA	Solid	8081A	136344
440-58969-4	EBD-100713-S-SW	Total/NA	Solid	8081A	136344

HPLC/IC

Leach Batch: 136255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58902-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
440-58902-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
440-58969-1	EBD-100713-B	Soluble	Solid	DI Leach	
440-58969-2	EBD-100713-N-SW	Soluble	Solid	DI Leach	

TestAmerica Irvine

QC Association Summary

Client: ENVIRON International Corp.
Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1
SDG: 21-32100 E-E01

HPLC/IC (Continued)

Leach Batch: 136255 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-3	EBD-100713-W-SW	Soluble	Solid	DI Leach	
440-58969-4	EBD-100713-S-SW	Soluble	Solid	DI Leach	
440-58969-4 DU	EBD-100713-S-SW	Soluble	Solid	DI Leach	
LCS 440-136255/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 440-136255/1-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 136257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58902-A-1-B MS	Matrix Spike	Soluble	Solid	9056	136255
440-58902-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	9056	136255
440-58969-1	EBD-100713-B	Soluble	Solid	9056	136255
440-58969-2	EBD-100713-N-SW	Soluble	Solid	9056	136255
440-58969-3	EBD-100713-W-SW	Soluble	Solid	9056	136255
440-58969-4	EBD-100713-S-SW	Soluble	Solid	9056	136255
440-58969-4 DU	EBD-100713-S-SW	Soluble	Solid	9056	136255
LCS 440-136255/2-A	Lab Control Sample	Soluble	Solid	9056	136255
MB 440-136255/1-A	Method Blank	Soluble	Solid	9056	136255

Analysis Batch: 136317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-4270-A-1-C MS	Matrix Spike	Total/NA	Solid	7199	136456
320-4270-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	7199	136456
320-4270-A-1-E MSI	Matrix Spike	Total/NA	Solid	7199	136456
440-58969-1	EBD-100713-B	Total/NA	Solid	7199	136456
440-58969-2	EBD-100713-N-SW	Total/NA	Solid	7199	136456
440-58969-3	EBD-100713-W-SW	Total/NA	Solid	7199	136456
440-58969-4	EBD-100713-S-SW	Total/NA	Solid	7199	136456
LCS 440-136456/2-A	Lab Control Sample	Total/NA	Solid	7199	136456
MB 440-136456/1-A	Method Blank	Total/NA	Solid	7199	136456

Leach Batch: 136449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-1	EBD-100713-B	Soluble	Solid	DI Leach	
440-58969-1 MS	EBD-100713-B	Soluble	Solid	DI Leach	
440-58969-1 MSD	EBD-100713-B	Soluble	Solid	DI Leach	
440-58969-2	EBD-100713-N-SW	Soluble	Solid	DI Leach	
440-58969-3	EBD-100713-W-SW	Soluble	Solid	DI Leach	
440-58969-4	EBD-100713-S-SW	Soluble	Solid	DI Leach	
LCS 440-136449/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 440-136449/1-A	Method Blank	Soluble	Solid	DI Leach	

Prep Batch: 136456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-4270-A-1-C MS	Matrix Spike	Total/NA	Solid	3060A	
320-4270-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3060A	
320-4270-A-1-E MSI	Matrix Spike	Total/NA	Solid	3060A	
440-58969-1	EBD-100713-B	Total/NA	Solid	3060A	
440-58969-2	EBD-100713-N-SW	Total/NA	Solid	3060A	
440-58969-3	EBD-100713-W-SW	Total/NA	Solid	3060A	
440-58969-4	EBD-100713-S-SW	Total/NA	Solid	3060A	
LCS 440-136456/2-A	Lab Control Sample	Total/NA	Solid	3060A	

TestAmerica Irvine

QC Association Summary

Client: ENVIRON International Corp.
Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1
SDG: 21-32100 E-E01

HPLC/IC (Continued)

Prep Batch: 136456 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-136456/1-A	Method Blank	Total/NA	Solid	3060A	

Analysis Batch: 136941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-1	EBD-100713-B	Soluble	Solid	314.0	136449
440-58969-1 MS	EBD-100713-B	Soluble	Solid	314.0	136449
440-58969-1 MSD	EBD-100713-B	Soluble	Solid	314.0	136449
440-58969-2	EBD-100713-N-SW	Soluble	Solid	314.0	136449
440-58969-3	EBD-100713-W-SW	Soluble	Solid	314.0	136449
440-58969-4	EBD-100713-S-SW	Soluble	Solid	314.0	136449
LCS 440-136449/2-A	Lab Control Sample	Soluble	Solid	314.0	136449
MB 440-136449/1-A	Method Blank	Soluble	Solid	314.0	136449
MRL 440-136941/2 MRL	Lab Control Sample	Total/NA	Solid	314.0	

Metals

Prep Batch: 136445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-1	EBD-100713-B	Total/NA	Solid	3050B	
440-58969-1 MS	EBD-100713-B	Total/NA	Solid	3050B	
440-58969-1 MSD	EBD-100713-B	Total/NA	Solid	3050B	
440-58969-2	EBD-100713-N-SW	Total/NA	Solid	3050B	
440-58969-3	EBD-100713-W-SW	Total/NA	Solid	3050B	
440-58969-4	EBD-100713-S-SW	Total/NA	Solid	3050B	
LCS 440-136445/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
MB 440-136445/1-A ^5	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 136522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-1 MS	EBD-100713-B	Total/NA	Solid	6010B	136445
440-58969-1 MSD	EBD-100713-B	Total/NA	Solid	6010B	136445
440-58969-2	EBD-100713-N-SW	Total/NA	Solid	6010B	136445
440-58969-3	EBD-100713-W-SW	Total/NA	Solid	6010B	136445
440-58969-4	EBD-100713-S-SW	Total/NA	Solid	6010B	136445
440-58969-4	EBD-100713-S-SW	Total/NA	Solid	6010B	136445
LCS 440-136445/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	136445
MB 440-136445/1-A ^5	Method Blank	Total/NA	Solid	6010B	136445

Analysis Batch: 136532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-1	EBD-100713-B	Total/NA	Solid	6010B	136445

General Chemistry

Leach Batch: 136232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-1	EBD-100713-B	Soluble	Solid	DI Leach	
440-58969-1 DU	EBD-100713-B	Soluble	Solid	DI Leach	
440-58969-2	EBD-100713-N-SW	Soluble	Solid	DI Leach	
440-58969-3	EBD-100713-W-SW	Soluble	Solid	DI Leach	

TestAmerica Irvine

QC Association Summary

Client: ENVIRON International Corp.
 Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1
 SDG: 21-32100 E-E01

General Chemistry (Continued)

Leach Batch: 136232 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-4	EBD-100713-S-SW	Soluble	Solid	DI Leach	

Analysis Batch: 136430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-1	EBD-100713-B	Soluble	Solid	9045C	136232
440-58969-1 DU	EBD-100713-B	Soluble	Solid	9045C	136232
440-58969-2	EBD-100713-N-SW	Soluble	Solid	9045C	136232
440-58969-3	EBD-100713-W-SW	Soluble	Solid	9045C	136232
440-58969-4	EBD-100713-S-SW	Soluble	Solid	9045C	136232

Analysis Batch: 136433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-1	EBD-100713-B	Soluble	Solid	SM 2580B	136232
440-58969-1 DU	EBD-100713-B	Soluble	Solid	SM 2580B	136232
440-58969-2	EBD-100713-N-SW	Soluble	Solid	SM 2580B	136232
440-58969-3	EBD-100713-W-SW	Soluble	Solid	SM 2580B	136232
440-58969-4	EBD-100713-S-SW	Soluble	Solid	SM 2580B	136232

Prep Batch: 136465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-1	EBD-100713-B	Total/NA	Solid	9010B	
440-58969-2	EBD-100713-N-SW	Total/NA	Solid	9010B	
440-58969-3	EBD-100713-W-SW	Total/NA	Solid	9010B	
440-58969-4	EBD-100713-S-SW	Total/NA	Solid	9010B	
440-58969-4 MS	EBD-100713-S-SW	Total/NA	Solid	9010B	
440-58969-4 MSD	EBD-100713-S-SW	Total/NA	Solid	9010B	
LCS 440-136465/2-A	Lab Control Sample	Total/NA	Solid	9010B	
MB 440-136465/1-A	Method Blank	Total/NA	Solid	9010B	

Prep Batch: 136466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-1	EBD-100713-B	Total/NA	Solid	9030B	
440-58969-2	EBD-100713-N-SW	Total/NA	Solid	9030B	
440-58969-3	EBD-100713-W-SW	Total/NA	Solid	9030B	
440-58969-4	EBD-100713-S-SW	Total/NA	Solid	9030B	
440-58969-4 MS	EBD-100713-S-SW	Total/NA	Solid	9030B	
440-58969-4 MSD	EBD-100713-S-SW	Total/NA	Solid	9030B	
LCS 440-136466/1-A	Lab Control Sample	Total/NA	Solid	9030B	
MB 440-136466/2-A	Method Blank	Total/NA	Solid	9030B	

Analysis Batch: 136468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-1	EBD-100713-B	Total/NA	Solid	9034	136466
440-58969-2	EBD-100713-N-SW	Total/NA	Solid	9034	136466
440-58969-3	EBD-100713-W-SW	Total/NA	Solid	9034	136466
440-58969-4	EBD-100713-S-SW	Total/NA	Solid	9034	136466
440-58969-4 MS	EBD-100713-S-SW	Total/NA	Solid	9034	136466
440-58969-4 MSD	EBD-100713-S-SW	Total/NA	Solid	9034	136466
LCS 440-136466/1-A	Lab Control Sample	Total/NA	Solid	9034	136466
MB 440-136466/2-A	Method Blank	Total/NA	Solid	9034	136466

QC Association Summary

Client: ENVIRON International Corp.
Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1
SDG: 21-32100 E-E01

General Chemistry (Continued)

Analysis Batch: 136540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-1	EBD-100713-B	Total/NA	Solid	9014	136465
440-58969-2	EBD-100713-N-SW	Total/NA	Solid	9014	136465
440-58969-3	EBD-100713-W-SW	Total/NA	Solid	9014	136465
440-58969-4	EBD-100713-S-SW	Total/NA	Solid	9014	136465
440-58969-4 MS	EBD-100713-S-SW	Total/NA	Solid	9014	136465
440-58969-4 MSD	EBD-100713-S-SW	Total/NA	Solid	9014	136465
LCS 440-136465/2-A	Lab Control Sample	Total/NA	Solid	9014	136465
MB 440-136465/1-A	Method Blank	Total/NA	Solid	9014	136465

Definitions/Glossary

Client: ENVIRON International Corp.
Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1
SDG: 21-32100 E-E01

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
E	Result exceeded calibration range.
F	MS/MSD Recovery and/or RPD exceeds the control limits
X	Surrogate is outside control limits

HPLC/IC

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: ENVIRON International Corp.
Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1
SDG: 21-32100 E-E01

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-14
Arizona	State Program	9	AZ0671	10-13-13
California	LA Cty Sanitation Districts	9	10256	01-31-14
California	NELAP	9	1108CA	01-31-14
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	01-28-14 *
Hawaii	State Program	9	N/A	01-31-14
Nevada	State Program	9	CA015312007A	07-31-14
New Mexico	State Program	6	N/A	01-31-14
Northern Mariana Islands	State Program	9	MP0002	01-31-14
Oregon	NELAP	10	4005	09-12-14
USDA	Federal		P330-09-00080	06-06-14
USEPA UCMR	Federal	1	CA01531	01-31-15

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Irvine



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Report for:

Ms. Sushmitha Reddy
TestAmerica Irvine
 17461 Derian Ave.
 Suite 100
 Irvine, CA 92614

Regarding: Project: 440-58969-1
 EML ID: 1124910

Approved by:

Dates of Analysis:
 Asbestos-EPA Method 600/R-93/116: 10-09-2013



Approved Signatory
 Miguel Ines

Service SOPs: Asbestos-EPA Method 600/R-93/116 (EPA-600/M4-82-020 (SOP 01267))

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

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Client: TestAmerica Irvine
 C/O: Ms. Sushmitha Reddy
 Re: 440-58969-1

Date of Sampling: 10-07-2013
 Date of Receipt: 10-09-2013
 Date of Report: 10-09-2013

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Total Samples Submitted:	4
Total Samples Analysed:	4
Total Samples with Layer Asbestos Content > 1%:	0

Location: EBD-100713-B (440-58969-1)

Lab ID-Version‡: 5078237-1

Sample Layers	Asbestos Content
Brown Soil	ND
Sample Composite Homogeneity: Good	

Location: EBD-100713-N-SW (440-58969-2)

Lab ID-Version‡: 5078238-1

Sample Layers	Asbestos Content
Brown Soil	ND
Sample Composite Homogeneity: Good	

Location: EBD-100713-W-SW (440-58969-3)

Lab ID-Version‡: 5078239-1

Sample Layers	Asbestos Content
Brown Soil	ND
Sample Composite Homogeneity: Good	

Location: EBD-100713-S-SW (440-58969-4)

Lab ID-Version‡: 5078240-1

Sample Layers	Asbestos Content
Brown Soil	ND
Sample Composite Homogeneity: Good	

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

PROJECT NAME / FACILITY ID: East End beta Ditch FIELD PERSON: Nita Shin
 PROJECT NUMBER: 21-38100 E-E01 DATE: 10/07/2013 PROJECT MANAGER: Dan Clark
 PROJECT LOCATION: Henderson NV-EEA LABORATORY: Test America

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #: WO#: 4140-58969

SAMPLER:	SIGNATURE:	YEAR	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
EBD-100713-B			10/7/13	0730		S	2	U	NO	X	2835 10/8/13 3
EBD-100713-N-SW				0700		S	2	U	NO	X	
EBD-100713-W-SW				0750		S	2	U	NO	X	
EBD-100713-S-SW				0800		S	2	U	NO	X	
TOTAL											



RELINQUISHED BY: TIME/DATE: 10/07/13 1300 RECEIVED BY: TIME/DATE: 10/13/13 1300
 (COMPANY): (COMPANY):

RELINQUISHED BY: TIME/DATE: 10/13/13 1600 RECEIVED BY: TIME/DATE: 10/8/13 1021
 (COMPANY): (COMPANY): TA-Force

RELINQUISHED BY: TIME/DATE: RECEIVED BY: TIME/DATE:
 (COMPANY): (COMPANY):

TURNAROUND TIME (CIRCLE ONE) 24 HOURS 72 HOURS
 48 HOURS 5 DAYS
 NORMAL

IF SEALED, SEAL INTEGRITY: INTACT: Y N

Dan Nator 702 409 1264



COC #: 03259

Project Name: NERT-NV

Date: October 7, 2013

Project #: 21-32100 E-E01

Analysis:

1. Arsenic and Manganese – EPA Method 6010/6020
2. Hexavalent chromium – EPA Method 7196A or 7199/3060A
3. Cyanide – EPA Method 9012
4. Perchlorate – EPA Method 314.0
5. OCPs and PCBs – EPA Method 8081A/8082
6. pH – EPA Method 9045
7. Inorganic ions – EPA Method 9056
8. Sulfide – EPA Method 9034
9. Asbestos – EPA Method 600/R-93-116

Login Sample Receipt Checklist

Client: ENVIRON International Corp.

Job Number: 440-58969-1

SDG Number: 21-32100 E-E01

Login Number: 58969

List Number: 1

Creator: Chavez, Elizabeth

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	Nita Shinn
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	





Report for:

Ms. Sushmitha Reddy
TestAmerica Irvine
17461 Derian Ave.
Suite 100
Irvine, CA 92614

Regarding: Project: 440-58969-1
EML ID: 1124910

Approved by:

Dates of Analysis:
Asbestos-EPA Method 600/R-93/116: 10-09-2013

Approved Signatory
Miguel Ines

Service SOPs: Asbestos-EPA Method 600/R-93/116 (EPA-600/M4-82-020 (SOP 01267))

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Client: TestAmerica Irvine
 C/O: Ms. Sushmitha Reddy
 Re: 440-58969-1

Date of Sampling: 10-07-2013
 Date of Receipt: 10-09-2013
 Date of Report: 10-09-2013

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Total Samples Submitted: 4
Total Samples Analysed: 4

Total Samples with Layer Asbestos Content > 1%: 0

Location: EBD-100713-B (440-58969-1)

Lab ID-Version‡: 5078237-1

Sample Layers	Asbestos Content
Brown Soil	ND
Sample Composite Homogeneity: Good	

Location: EBD-100713-N-SW (440-58969-2)

Lab ID-Version‡: 5078238-1

Sample Layers	Asbestos Content
Brown Soil	ND
Sample Composite Homogeneity: Good	

Location: EBD-100713-W-SW (440-58969-3)

Lab ID-Version‡: 5078239-1

Sample Layers	Asbestos Content
Brown Soil	ND
Sample Composite Homogeneity: Good	

Location: EBD-100713-S-SW (440-58969-4)

Lab ID-Version‡: 5078240-1

Sample Layers	Asbestos Content
Brown Soil	ND
Sample Composite Homogeneity: Good	

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‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Appendix H
Data Validation Summary Report (DVSR)

Data Validation Summary Report
October 2013
Beta Ditch Sampling Event
Nevada Environmental Response Trust (NERT)
Henderson, Nevada

Prepared for

ENVIRON International Corporation
Emeryville, California

Prepared by

Laboratory Data Consultants, Inc.
7750 El Camino Real, Suite 2C
Carlsbad, California 92009

January 28, 2014

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LIST OF ACRONYMS AND ABBREVIATIONS

DQO	Data Quality Objectives
DUP	Duplicate
DVSR	Data Validation Summary Report
ICV	Initial Calibration Verification
LCS/LCSD	Laboratory Control Sample / Laboratory Control Sample Duplicate
LDC	Laboratory Data Consultants, Inc.
MS/MSD	Matrix Spike / Matrix Spike Duplicate
PARCC	Precision, Accuracy, Representativeness, Comparability, Completeness
PCB	Polychlorinated Biphenyl
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance / Quality Control
QAPP	Quality Assurance Project Plan
REDOX	Reduction-Oxidation
RPD	Relative Percent Difference
RSD	Relative Standard Deviation
SDG	Sample Delivery Group
SQL	Sample Quantitation Limit
ug/Kg	Micrograms per Kilogram
mg/Kg	Milligram per Kilogram
USEPA	United States Environmental Protection Agency
%D	Percent Difference
%R	Percent Recovery
%RSD	Percent Relative Standard Deviation

1.0 INTRODUCTION

This data validation summary report (DVSR) has been prepared by Laboratory Data Consultants, Inc. (LDC) to assess the validity and usability of laboratory analytical data from the Beta Ditch Sampling Event conducted at the Nevada Environmental Response Trust (NERT) site in Henderson, Nevada. The assessment was performed by ENVIRON as a part of the *Revised Phase B Quality Assurance Project Plan Tronox LLC Facility, Henderson, Nevada* dated May 2009 and included the collection and analyses of 4 environmental and quality control (QC) samples. The analyses were performed by the following methods:

Chlorinated Pesticides by Environmental Protection Agency (EPA) SW 846 Method 8081A
Polychlorinated Biphenyls (PCBs) by EPA SW 846 Method 8082
Arsenic and Manganese by EPA SW 846 Method 6010B

Wet Chemistry:

Perchlorate by EPA Method 314.0

Hexavalent Chromium by EPA SW 846 Method 7199

Nitrate as Nitrogen, Nitrite as Nitrogen, and Orthophosphate as Phosphorus by EPA SW 846 Method 9056

Cyanide by EPA SW 846 Method 9014

Sulfide by EPA SW 846 Method 9034

pH by EPA SW 846 Method 9045C

Reduction-Oxidation (REDOX) Potential by Standard Method 2580B

Laboratory analytical services were provided by Test America, Inc. The samples were grouped into sample delivery groups (SDGs). The soil samples are associated with QA/QC samples designed to document the data quality of the entire SDG or a sub-group of samples within an SDG. Table I is a cross-reference table listing each sample, analysis, SDG, collection date, laboratory sample number, and matrix. All shaded samples in Table I were reviewed under Stage 4 validation guidelines.

The laboratory analytical data were validated in accordance with procedures described in the Nevada Division of Environmental Protection (NDEP) *Data Verification and Validation Requirements - Supplement* established for the BMI Plant Sites and Common Areas Projects, Henderson, Nevada, April 13, 2009. Consistent with the NDEP requirements, approximately seventy-five percent of the analytical data (3 of the 4 samples) were validated according to Stage 2B data validation procedures and twenty-five percent of the analytical data (1 of the 4 samples) were validated according to Stage 4 data validation procedures. The analytical data were evaluated for quality assurance and quality control (QA/QC) based on the following documents: *Basic Remediation Company (BRC) Standard Operating Procedures (SOP) 40 Data Review/Validation*, Revision 4, May 2009; Nevada Department of Environmental Protection (NDEP) *Revised Guidance on Qualifying Data due to Blank Contamination for the BMI Complex and Common Areas*, January 5 2012; *Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, June 2008; *Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*, January 2010; and the *EPA SW 846 Third Edition, Test Methods for Evaluating Solid Waste*, update I, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IV, February 2007.

This report summarizes the QA/QC evaluation of the data according to precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) relative to the project data quality objectives (DQOs). This report provides a quantitative and qualitative assessment of the data and identifies potential sources of error, uncertainty, and bias that may affect the overall usability.

The PARCCS summary report evaluates and summarizes the results of QA/QC data validation for the entire sampling program. Each analytical fraction has a separate section for each of the PARCCS criteria.

These sections interpret specific QC deviations and their effects on both individual data points and the analyses as a whole. Section 7.0 presents a summary of the PARCCS criteria by comparing quantitative parameters with acceptability criteria defined in the project DQO's. Qualitative PARCCS criteria are also summarized in this section.

Precision and Accuracy of Environmental Data

Environmental data quality depends on sample collection procedures, analytical methods and instrumentation, documentation, and sample matrix properties. Both sampling procedures and laboratory analyses contain potential sources of uncertainty, error, and/or bias, which affect the overall quality of a measurement. Errors for sample data may result from incomplete equipment decontamination, inappropriate sampling techniques, sample heterogeneity, improper filtering, and improper preservation. The accuracy of analytical results is dependent on selecting appropriate analytical methods, maintaining equipment properly, and complying with QC requirements. The sample matrix also is an important factor in the ability to obtain precise and accurate results within a given media.

Environmental and laboratory QA/QC samples assess the effects of sampling procedures and evaluate laboratory contamination, laboratory performance, and matrix effects. QA/QC samples include: method blanks, laboratory control samples (LCSs), laboratory duplicates (DUP), and matrix spike/matrix spike duplicates (MS/MSDs).

Before conducting the PARCCS evaluation, the analytical data were validated according to the BRC SOP-40 (May 2009), Functional Guidelines (USEPA 2008 and 2010), and EPA SW 846 Test Methods. Samples not meeting the acceptance criteria were qualified with a flag, an abbreviation indicating a deficiency with the data. The following are flags used in data validation.

- J- Estimated The associated numerical value is an estimated quantity with a negative bias. The analyte was detected but the reported value may not be accurate or precise.
- J+ Estimated The associated numerical value is an estimated quantity with a positive bias. The analyte was detected but the reported value may not be accurate or precise.
- J Estimated The associated numerical value is an estimated quantity. It is not possible to assess the direction of the potential bias. The analyte was detected but the reported value may not be accurate or precise. The "J" qualification indicates the data fell outside the QC limits, but the exceedance was not sufficient to cause rejection of the data.
- K Estimated The associated numerical value is an estimated maximum possible concentration (EMPC). Flagged by the laboratory as estimated due to not meeting the qualitative identification criteria, target compounds reported as EMPC by the laboratory should be considered estimated.
- R Rejected The data is unusable (the compound or analyte may or may not be present). Use of the "R" qualifier indicates a significant variance from functional guideline acceptance criteria. Either resampling or reanalysis is necessary to determine the presence or absence of the rejected analyte. The "R" designation is also applied to yield only one complete set of data for a given sample and eliminate redundant data.
- U Nondetected Analyses were performed for the compound or analyte, but it was not detected. The "U" designation is also applied to suspected blank contamination. The "U" flag is used to qualify any result that is detected in an environmental sample and associated blank at less than the PQL.
- UJ Estimated/Nondetected Analyses were performed for the compound or analyte, but it was not detected and the sample quantitation or detection limit is an estimated quantity due to poor

accuracy or precision. This qualification is also used to flag possible false negative results in the case where low bias in the analytical system is indicated by low calibration response, surrogate, or other spike recovery.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

The hierarchy of flags is listed below:

R > J The R flag will always take precedence over the J qualifier.

J > J+ or J- A non-biased (J) flag will always supersede biased (J+ or J-) flags since it is not possible to assess the direction of the potential bias.

J = J+ plus J- Adding biased (J+, J-) flags with opposite signs will result in a non-biased flag (J).

UJ = U plus J or J+ or J- The UJ flag is used when a non-detected (U) flag is added to a biased (J+ or J-) or non-biased flag (J).

Table II lists the reason codes used. Reason codes explain why flags have been applied and identify possible limitations of data use. Reason codes are cumulative except when one of the flags is R then only the reason code associated to the R flag will be used.

Table III presents the overall qualified results after all the flags or validation qualifiers and associated reason codes have been applied.

Once the data are reviewed and qualified according to the BRC SOP-40, Functional Guidelines, and EPA Test Methods, the data set is then evaluated using PARCCS criteria. PARCCS criteria provide an evaluation of overall data usability. The following is a discussion of PARCCS criteria as related to the project DQOs.

Precision is a measure of the agreement or reproducibility of analytical results under a given set of conditions. It is a quantity that cannot be measured directly but is calculated from percent recovery data. Precision is expressed as the relative percent difference (RPD):

$$RPD = (D1-D2)/\{1/2(D1+D2)\} \times 100$$

where:

D1 = reported concentration for the sample

D2 = reported concentration for the duplicate

Precision is primarily assessed by calculating an RPD from the percent recoveries of the spiked compounds for each sample in the MS/MSD pair. In the absence of an MS/MSD pair, a laboratory duplicate or LCS/LCSD pair can be analyzed as an alternative means of assessing precision. An additional measure of sampling precision was obtained by collecting and analyzing field duplicate samples, which were compared using the RPD result as the evaluation criteria.

MS and MSD samples are field samples spiked by the laboratory with target analytes prior to preparation and analysis. These samples measure the overall efficiency of the analytical method in recovering target analytes from an environmental matrix. A LCS is similar to an MS/MSD sample in that the LCS is spiked

with the same target analytes prior to preparation and analysis. However, the LCS is prepared using a controlled interference-free matrix instead of a field sample aliquot. Laboratory reagent water is used to prepare aqueous LCS. The LCS measures laboratory efficiency in recovering target analytes from either an aqueous matrix in the absence of matrix interferences.

One primary sample is analyzed and accompanied by an unspiked laboratory duplicate. The data reviewer compares the reported results of the primary analysis and the laboratory duplicate, then calculates RPDs, which are used to assess laboratory precision.

Laboratory and field sampling precision are evaluated by calculating RPDs for aqueous field sample duplicate pairs. The sampler collects two field samples at the same location and under identically controlled conditions. The laboratory then analyzes the samples under identical conditions.

An RPD outside the numerical QC limit in either MS/MSD samples or LCS/LCSD indicates imprecision. Imprecision is the variance in the consistency with which the laboratory arrives at a particular reported result. Thus, the actual analyte concentration may be higher or lower than the reported result.

Possible causes of poor precision include sample matrix interference, improper sample collection or handling, inconsistent sample preparation, and poor instrument stability. In some duplicate pairs, results maybe reported in either the primary or duplicate samples at levels below the practical quantitation limit (PQL) or non-detected. Since these values are considered to be estimates, RPD exceedances from these duplicate pairs do not suggest a significant impact on the data quality.

Accuracy is a measure of the agreement of an experimental determination and the true value of the parameter being measured. It is used to identify bias in a given measurement system. Recoveries outside acceptable QC limits may be caused by factors such as instrumentation, analyst error, or matrix interference. Accuracy is assessed through the analysis of MS, MSD, LCS, and LCSD. In some cases, samples from multiple SDGs were within one QC batch and therefore are associated with the same laboratory QC samples. Accuracy of inorganic analyses is determined using the percent recoveries of MS and LCS analyses.

Percent recovery (%R) is calculated using the following equation:

$$\%R = (A-B)/C \times 100$$

where:

A = measured concentration in the spiked sample

B = measured concentration of the spike compound in the unspiked sample

C = concentration of the spike

The percent recovery of each analyte spiked in MS/MSD samples and LCS/LCSD is evaluated with the acceptance criteria specified by the previously noted documents. Spike recoveries outside the acceptable QC accuracy limits provide an indication of bias, where the reported data may overestimate or underestimate the actual concentration of compounds detected or quantitation limits reported for environmental samples.

Representativeness is a qualitative parameter that expresses the degree to which the sample data are characteristic of a population. It is evaluated by reviewing the QC results of blanks, samples and holding times. Positive detects of compounds in the blank samples identify compounds that may have been introduced into the samples during sample collection, transport, preparation, or analysis. The QA/QC blanks collected and analyzed are method blanks.

A method blank is a laboratory grade water or solid matrix that contains the method reagents and has undergone the same preparation and analysis as the environmental samples. The method blank provides a

measure of the combined contamination derived from the laboratory source water, glassware, instruments, reagents, and sample preparation steps. Method blanks are prepared for each sample of a similar matrix extracted by the same method at a similar concentration level.

Initial and continuing calibration blanks consist of acidified laboratory grade water, which are injected at the beginning and at a regular frequency during each 12 - hour sample analysis run. These blanks estimate residual contaminants from the previous sample or standards analysis and measure baseline shifts that commonly occur in emission and absorption spectroscopy.

Contaminants found in both the environmental sample and the blank sample are assumed to be laboratory artifacts if both values are less than the PQL or if a sample result and blank contaminant value were greater than the PQL and less than 10 times the blank contaminant value. The blanks and associated samples were evaluated according to the NDEP *BMI Plant Sites and Common Areas Projects, Henderson, Nevada, Revised Guidance on Qualifying Data due to Blank Contamination for the BMI Complex and Common Areas*, January 5 2012.

Holding times are evaluated to assure that the sample integrity is intact for accurate sample preparation and analysis. Holding times will be specific for each method and matrix analyzed. Holding time exceedance can cause loss of sample constituents due to biodegradation, precipitation, volatilization, and chemical degradation. In accordance with EPA guidance (USEPA 2004), sample results for analyses that were performed after the method holding time but less than two times the method holding time were qualified as estimated (J- or UJ) and sample results for analyses that were performed after two times the method holding time were qualified as rejected (R).

Comparability is a qualitative expression of the confidence with which one data set may be compared to another. It provides an assessment of the equivalence of the analytical results to data obtained from other analyses. It is important that data sets be comparable if they are used in conjunction with other data sets. The factors affecting comparability include the following: sample collection and handling techniques, matrix type, and analytical method. If these aspects of sampling and analysis are carried out according to standard analytical procedures, the data are considered comparable. Comparability is also dependent upon other PARCC criteria, because only when precision, accuracy, and representativeness are known can data sets be compared with confidence.

Completeness is defined as the percentage of acceptable sample results compared to the total number of sample results. Completeness is evaluated to determine if an acceptable amount of usable data were obtained so that a valid scientific site assessment can be completed. Completeness equals the total number of sample results for each fraction minus the total number of rejected sample results divided by the total number of sample results multiplied by 100. As specified in the project DQOs, the goal for completeness for target analytes in each analytical fraction is 90 percent.

Percent completeness is calculated using the following equation:

$$\%C = (T - R)/T \times 100$$

where:

%C = percent completeness

T = total number of sample results

R = total number of rejected sample results

Completeness is also determined by comparing the planned number of samples per method and matrix as specified in the QAPP, with the number determined above.

Sensitivity is the ability of an analytical method or instrument to discriminate between measurement responses representing different concentrations. This capability is established during the planning phase to meet the DQOs. It is important that calibration requirements, detection limits (DLs), and PQLs presented in the QAPP are achieved and that target analytes can be detected at concentrations necessary to support the DQOs. In addition, sample results are compared to method blank and field blank results to identify potential effects of laboratory background and field procedures on sensitivity.

The following sections present a review of QC data for each analytical method.

2.0 CHLORINATED PESTICIDES

A total of 4 soil samples were analyzed for chlorinated pesticides by EPA SW 846 Method 8081A. All chlorinated pesticide data were assessed to be valid since none of the 80 total results were rejected due to holding time or QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the DQOs.

2.1 Precision and Accuracy

2.1.1 Instrument Calibration

Initial and continuing calibration results provide a means of evaluating accuracy within a particular SDG. Percent relative standard deviation (%RSD) and percent difference (%D) are the major parameters used to measure the effectiveness of instrument calibration. %RSD is an expression of the linearity of instrument response. %D is a comparison of a continuing calibration instrumental response with its initial response. %RSD and %D exceedances suggest routine instrumental anomalies, which typically impact all sample results for the affected compounds.

The %RSDs met the acceptance criteria of 20 percent or the coefficient of determination (r^2) was ≥ 0.990 in the initial calibration. The %Ds in the initial and continuing calibration verifications met the acceptance criteria of 20 percent.

2.1.2 Surrogates

Due to surrogate %Rs outside of the acceptance criteria, 10 results in samples EBD-100713-N-SW and EBD-100713-S-SW were qualified as detected estimated (J+). The affected compounds were 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, alpha-BHC, beta-BHC, endosulfan II, and endrin ketone. The details regarding the qualification of results are provided in Attachment A.

2.1.3 MS/MSD Samples

All MS/MSD %Rs and RPDs met the acceptance criteria as stated in the QAPP.

2.1.4 LCS Samples

All LCS %Rs met the acceptance criteria as stated in the QAPP.

2.1.5 Analyte Quantitation and Target Identification

Raw data were evaluated for the Stage 4 samples. All analyte quantitation and target identifications were acceptable.

Due to the RPD between 2 columns greater than 40 percent, the 4,4'-DDT and beta-BHC results in sample EBD-100713-B and the endosulfan II result in sample EBD-100713-S-SW were qualified as

detected estimated (J). The details regarding the qualification of results are provided in Attachment C.

2.2 Representativeness

2.2.1 Sample Preservation and Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All samples met the 14-day extraction and 40-day analysis holding time criteria.

2.2.2 Blanks

Method blanks were analyzed to evaluate representativeness. The concentration for an individual target compound in any of the two types of QA/QC blanks was used for data qualification.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation. The corrective action consisted of amending the laboratory reported results based on the following criteria.

Results Below the PQL If a sample result and blank contaminant value were less than the PQL, the sample result was amended as estimated (J) at the concentration reported in the sample results.

Results Above the PQL If a sample result and blank contaminant value were greater than the PQL and less than 10 times the blank contaminant value, the sample result was qualified as detected estimated (J+) at the concentration reported in the sample results.

No Action If blank contaminant values were less than the PQL and associated sample results were greater than the PQL, or if blank contaminant values were greater than the PQL and associated sample results were greater than 10 times the blank contaminant value, the result was not amended.

2.2.2.1 Method Blanks

No contaminants were detected in the method blanks for this analysis.

2.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the Sample Quantitation Limits (SQLs) attained were at or below the PQLs. Target compounds detected below the PQLs flagged (J) by the laboratory should be considered estimated. The comparability of the data is regarded as acceptable.

2.4 Completeness

The completeness level attained for chlorinated pesticide field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

2.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs met the specified requirements described in the QAPP.

3.0 POLYCHLORINATED BIPHENYLS

A total of 4 soil samples were analyzed for PCBs by EPA SW 846 Method 8082. All PCB data were assessed to be valid since none of the 28 total results were rejected due to holding time or QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the PQOs.

3.1 Precision and Accuracy

3.1.1 Instrument Calibration

The %RSDs in the initial calibration and the %Ds in the initial and continuing calibration verifications met the acceptance criteria of 20 percent.

3.1.2 Surrogates

No data were qualified due to high surrogate %Rs since the results were reported as non-detected.

3.1.3 MS/MSD Samples

All MS/MSD %Rs and RPDs were within the acceptance criteria as stated in the QAPP.

3.1.4 LCS Samples

All LCS %Rs were within the acceptance criteria as stated in the QAPP.

3.1.5 Analyte Quantitation and Target Identification

Raw data were evaluated for the Stage 4 samples. All analyte quantitation and target identifications were acceptable.

3.2 Representativeness

3.2.1 Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All samples met the 14-day extraction and 40-day analysis holding time criteria.

3.2.2 Blanks

As previously discussed in Section 2.2.2, method blanks were analyzed to evaluate representativeness.

3.2.2.1 Method Blanks

No contaminants were detected in the method blanks for this analysis.

3.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the SQLs attained were at or below the PQLs. The comparability of the data is regarded as acceptable.

3.4 Completeness

The completeness level attained for PCB field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

3.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs met the specified requirements described in the QAPP.

4.0 ARSENIC & MANGANESE

A total of 4 soil samples were analyzed for arsenic and manganese by EPA SW 846 Method 6010B. All arsenic and manganese data were assessed to be valid since none of the 8 total results were rejected based on holding time and QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the DQOs.

4.1 Precision and Accuracy

4.1.1 Instrument Calibration

Initial and continuing calibration verification results provide a means of evaluating accuracy within a particular SDG. Correlation coefficient (r) and percent recovery (%R) are the two major parameters used to measure the effectiveness of instrument calibration. The correlation coefficient indicates the linearity of the calibration curve. %R is used to verify the ongoing calibration acceptability of the analytical system.

The most critical of the two calibration parameters, r , has the potential to affect data accuracy across an SDG when it is outside the acceptable QC limits. %R exceedances suggest more routine instrumental anomalies, which typically impact all sample results for the affected analytes.

The correlation coefficients in the initial calibrations were within the acceptance criteria of ≥ 0.995 and the %Rs in the initial and continuing calibration verifications met the acceptance criteria of 90-110%.

4.1.2 MS/MSD Samples

All MS/MSD %Rs and RPDs met acceptance criteria as stated in the QAPP.

4.1.3 LCS Samples

All LCS %Rs met acceptance criteria as stated in the QAPP.

4.1.4 ICP Serial Dilution

ICP serial dilution analysis was not performed for this sampling event.

4.1.6 ICP Interference Check Sample

All ICP interference check %Rs met acceptance criteria as stated in the QAPP.

4.1.7 Analyte Quantitation and Target Identification

Raw data were evaluated for the Stage 4 samples. All analyte quantitation and target identifications were acceptable.

4.2 Representativeness

4.2.1 Sample Preservation and Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All samples met the 180-day analysis holding time criteria.

4.2.2 Blanks

As previously discussed in Section 2.2.2, method and calibration blanks were analyzed to evaluate representativeness.

4.2.2.1 Method and Calibration Blanks

No data were qualified due to the contaminants detected in the calibration blanks for this analysis.

4.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the SQLs attained were at or below the PQLs. The comparability of the data is regarded as acceptable.

4.4 Completeness

The completeness level attained for arsenic and manganese field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

4.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs met the specified requirements described in the QAPP.

5.0 WET CHEMISTRY

A total of 4 soil samples were analyzed for perchlorate by EPA Method 314.0, hexavalent chromium by EPA SW 846 Method 7199, nitrate as nitrogen, nitrite as nitrogen, and orthophosphate as phosphorus by EPA SW 846 Method 9056, cyanide by EPA SW 846 Method 9014, sulfide by EPA SW 846 Method 9034, pH by EPA SW 846 Method 9045C, and REDOX Potential by Standard Method 2580B. All wet chemistry data were assessed to be valid since none of the 36 total results were rejected based on holding time and QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the DQOs.

5.1 Precision and Accuracy

5.1.1 Instrument Calibration

As previously discussed in Section 4.1.1, initial and continuing calibration results provide a means of evaluating accuracy.

The correlation coefficients in the initial calibrations were within the acceptance criteria of ≥ 0.995 .

No data were qualified due to high continuing calibration verification %Rs outside the acceptance criteria of 90-110% since the results were reported as non-detected.

5.1.2 MS/MSD Samples

Due to MS/MSD %Rs outside of the acceptance criteria, 4 sulfide results were qualified as non-detected estimated (UJ). The details regarding the qualification of results are provided in Attachment B.

5.1.3 DUP Samples

All DUP RPDs met the acceptance criteria as stated in the QAPP.

5.1.4 LCS Samples

No data were qualified due to high LCS %Rs since the results were reported as non-detected.

5.1.6 Analyte Quantitation and Target Identification

Raw data were evaluated for the Stage 4 samples. All analyte quantitation and target identifications were acceptable.

5.2 Representativeness

5.2.1 Sample Preservation and Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All samples met the 28-day analysis holding time criteria for perchlorate, hexavalent chromium, nitrate as nitrogen, nitrite as nitrogen, orthophosphate as phosphorus, cyanide, sulfide, pH, and REDOX Potential.

5.2.2 Blanks

As previously discussed in Section 2.2.2, method and calibration blanks were analyzed to evaluate representativeness.

5.2.2.1 Method and Calibration Blanks

No contaminants were detected in the method or calibration blanks for this analysis.

5.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the SQLs attained were at or below the PQLs. Target compounds detected below the PQLs flagged (J) by the laboratory should be considered estimated. The comparability of the data is regarded as acceptable.

5.4 Completeness

The completeness level attained for wet chemistry field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

5.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs met the specified requirements described in the QAPP.

6.0 VARIANCES IN ANALYTICAL PERFORMANCE

The laboratory used standard analytical methods for all of the analyses throughout the project. No systematic variances in analytical performance were noted in the laboratory case narratives.

7.0 SUMMARY OF PARCCS CRITERIA

The validation reports present the PARCCS results for all SDGs. Each PARCCS criterion is discussed in detail in the following sections.

7.1 Precision and Accuracy

Precision and accuracy were evaluated using data quality indicators such as calibration, surrogates, MS/MSD, DUP, and LCS. The precision and accuracy of the data set were considered acceptable after integration of result qualification.

All calibrations were performed as required and met the acceptance criteria. All surrogate, MS/MSD, DUP, and LCS percent recoveries, %Ds, RPDs, and difference met acceptance criteria with the exceptions noted in Sections 2.1.2, 2.1.5, and 5.1.2. All ICP interference check sample %Rs met acceptance criteria.

7.2 Representativeness

All samples for each method and matrix were evaluated for holding time compliance. All samples were associated with a method blank in each individual SDG. The representativeness of the project data is considered acceptable.

7.3 Comparability

Sampling frequency requirements were met in obtaining necessary field blanks and field duplicates. The laboratory used standard analytical methods for the analyses. The analytical results were reported in correct standard units. Sample preservation, and sample integrity criteria were met. All holding times were within QC criteria. The overall comparability is considered acceptable.

7.4 Completeness

Of the 152 total analytes reported, none of the sample results were rejected. The completeness for the soil remediation sampling event is as follows:

Parameter	Total Analytes	No. of Rejects	% Completeness
Chlorinated Pesticides	80	0	100
PCBs	28	0	100
Arsenic and Manganese	8	0	100
Wet Chemistry	36	0	100
Total	152	0	100

The completeness percentage based on rejected data met the 90 percent DQO goal.

7.5 Sensitivity

Sensitivity was achieved by the laboratory to support the DQOs. Calibration concentrations and PQLs met the project requirements and low level contamination in the method or calibration blanks did not affect sensitivity.

8.0 CONCLUSIONS AND RECOMMENDATIONS

The analytical data quality assessment for the water sample laboratory analytical results generated during the Beta Ditch Sampling Event at the Nevada Environmental Response Trust (NERT) site in Henderson, Nevada established that the overall project requirements and completeness levels were met. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Stage 2B and Stage 4 data validation all other results are considered valid and usable for all purposes.

9.0 REFERENCES

NDEP 2009 Data Verification and Validation Requirements - Supplement established for the BMI Plant Sites and Common Areas Projects, Henderson, Nevada, April 13.

NDEP 2012. Revised Guidance on Qualifying Data due to Blank Contamination for the BMI Complex and Common Areas. January 5.

Basic Remediation Company (BRC) 2009, Standard Operating Procedures, SOP-40 Data Review/Validation. Revision 4. May.

Revised Phase B Quality Assurance Project Plan Tronox LLC Facility, Henderson, Nevada (QAPP). Revision. May 2009.

Region 9 Superfund Data Evaluation/Validation Guidance, R6QA/006.1, Draft. December 2001.

USEPA1983. EPA Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Cincinnati, Ohio, March.

____.1996. EPA SW 846 Third Edition, Test Methods for Evaluating Solid Waste, update I, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IV, February 2007.

____.2005. Contract Laboratory Program National Functional Guidelines for Polychlorinated Dioxin/Dibenzofuran Data Review, September.

____.2008. Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review. June.

____.2010. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review. January.

(Eaton et al., 1998) Standard Method for the Examination of Water and Wastewater (20th ed.). Washington, DC: American Public Health Association.

TABLE I

Sample Cross Reference

SDG#: 440-58969-1

VALIDATION SAMPLE TABLE

LDC#: 30916A

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	Date Collected	Pest (8081A)	PCB (8082)	As, Mn (6010B)	CLO ₄ (314.0)	CrVI (7199)	NO ₂ -N NO ₃ -N (9056)	OP-O ₄ (9056)	CN- (9014)	S= (9034)	REDOX (2580B)	pH (9045C)		
EBD-100713-B	440-58969-1	soil	10/07/13	X	X	X	X	X	X	X	X	X	X	X		
EBD-100713-N-SW	440-58969-2	soil	10/07/13	X	X	X	X	X	X	X	X	X	X	X		
EBD-100713-W-SW	440-58969-3	soil	10/07/13	X	X	X	X	X	X	X	X	X	X	X		
EBD-100713-S-SW	440-58969-4	soil	10/07/13	X	X	X	X	X	X	X	X	X	X	X		
EBD-100713-BMS	440-58969-1MS	soil	10/07/13	X	X	X	X									
EBD-100713-BMSD	440-58969-1MSD	soil	10/07/13	X	X	X	X									
EBD-100713-BDUP	440-58969-1DUP	soil	10/07/13										X	X		
EBD-100713-S-SWMS	440-58969-4MS	soil	10/07/13								X	X				
EBD-100713-S-SWMSD	440-58969-4MSD	soil	10/07/13								X	X				
EBD-100713-S-SWDUP	440-58969-4DUP	soil	10/07/13						X	X						

Shaded cells indicate samples underwent Stage 4 validation (all other cells are Stage 2B validation)

X = Validation was performed

TABLE II

Table II. Qualification Codes and Definitions

Reason Code	Explanation
a	qualified due to low abundance (radiochemical activity)
be	qualified due to equipment blank contamination
bf	qualified due to field blank contamination
bl	qualified due to lab blank contamination
bt	qualified due to trip blank contamination
bp	qualified due to pump blank contamination (wells w/o dedicated pumps, when contamination is detected in the Pump Blk)
br	qualified due to filter blank contamination (aqueous Hexavalent Chromium and Dissolved sample fractions)
c	qualified due to calibration problems
cp	qualified due to insufficient ingrowth (radiochemical only)
dc	duel column confirmation %D exceeded
e	concentration exceeded the calibration range
fd	qualified due to field duplicate imprecision
h	qualified due to holding time exceedance
i	qualified due to internal standard areas
k	qualified as Estimated Maximum Possible Concentrations (dioxins and PCB congeners)
l	qualified due to LCS recoveries
ld	qualified due to lab duplicate imprecision (matrix duplicate, MSD, LCSD)
m	qualified due to matrix spike recoveries
nb	qualified due to negative lab blank contamination (nondetect results only)
o	other
p	qualified as a false positive due to contamination during shipping
pH	sample preservation not within acceptance range
q	qualified due to quantitation problem
s	qualified due to surrogate recoveries
sd	serial dilution did not meet control criteria
sp	detected value reported >SQL <PQL
st	sample receipt temperature exceeded
t	qualified due to elevated helium tracer concentrations
vh	volatile headspace detected in aqueous sample containers submitted for VOC analysis
x	qualified due to low % solids
z	qualified due to ICS results

TABLE III

Table III. Overall Qualified Results

SDG	Client Sample ID	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	Units	Validation Qualifier	Validation Reason Code
440-58969-1	EBD-100713-B	SW8081A	50-29-3	4,4'-DDT	15		ug/kg	J	dc
440-58969-1	EBD-100713-B	SW8081A	319-85-7	beta-BHC	2.1	Jp	ug/kg	J	dc
440-58969-1	EBD-100713-N-SW	SW8081A	72-55-9	4,4'-DDE	21		ug/kg	J+	s
440-58969-1	EBD-100713-N-SW	SW8081A	50-29-3	4,4'-DDT	23		ug/kg	J+	s
440-58969-1	EBD-100713-N-SW	SW8081A	319-85-7	beta-BHC	17		ug/kg	J+	s
440-58969-1	EBD-100713-S-SW	SW8081A	33213-65-9	Endosulfan II	200		ug/kg	J	dc,s
440-58969-1	EBD-100713-S-SW	SW8081A	53494-70-5	Endrin ketone	11		ug/kg	J+	s
440-58969-1	EBD-100713-S-SW	SW8081A	72-55-9	4,4'-DDE	1300		ug/kg	J+	s
440-58969-1	EBD-100713-S-SW	SW8081A	72-54-8	4,4'-DDD	13		ug/kg	J+	s
440-58969-1	EBD-100713-S-SW	SW8081A	319-85-7	beta-BHC	37		ug/kg	J+	s
440-58969-1	EBD-100713-S-SW	SW8081A	319-84-6	alpha-BHC	2.8	J	ug/kg	J+	s
440-58969-1	EBD-100713-S-SW	SW8081A	50-29-3	4,4'-DDT	940		ug/kg	J+	s
440-58969-1	EBD-100713-B	SW9034	18496-25-8	Sulfide	20	U	mg/kg	UJ	m
440-58969-1	EBD-100713-N-SW	SW9034	18496-25-8	Sulfide	20	U	mg/kg	UJ	m
440-58969-1	EBD-100713-S-SW	SW9034	18496-25-8	Sulfide	20	U	mg/kg	UJ	m
440-58969-1	EBD-100713-W-SW	SW9034	18496-25-8	Sulfide	20	U	mg/kg	UJ	m

ATTACHMENT A

Qualifications based on Surrogate Recovery Exceedances

Qualifications based on Surrogate Recovery Exceedances

Sample ID	SDG	Method	Matrix	Analyte	Result	Units	Lab Qualifiers	Validation Qualifiers	Validation Reason Code	% Recovery	LCL	UCL
EBD-100713-N-SW	440-58969-1	SW8081A	Soil	4,4'-DDE	21	ug/kg		J+	s	143	45	120
EBD-100713-N-SW	440-58969-2	SW8081A	Soil	4,4'-DDT	23	ug/kg		J+	s	143	45	120
EBD-100713-N-SW	440-58969-3	SW8081A	Soil	beta-BHC	17	ug/kg		J+	s	143	45	120
EBD-100713-S-SW	440-58969-4	SW8081A	Soil	Endosulfan II	200	ug/kg		J	dc,s	125	45	120
EBD-100713-S-SW	440-58969-5	SW8081A	Soil	Endrin ketone	11	ug/kg		J+	s	125	45	120
EBD-100713-S-SW	440-58969-6	SW8081A	Soil	4,4'-DDE	1300	ug/kg		J+	s	125	45	120
EBD-100713-S-SW	440-58969-7	SW8081A	Soil	4,4'-DDD	13	ug/kg		J+	s	125	45	120
EBD-100713-S-SW	440-58969-8	SW8081A	Soil	beta-BHC	37	ug/kg		J+	s	125	45	120
EBD-100713-S-SW	440-58969-9	SW8081A	Soil	alpha-BHC	2.8	ug/kg	J	J+	s	125	45	120
EBD-100713-S-SW	440-58969-1	SW8081A	Soil	4,4'-DDT	940	ug/kg		J+	s	125	45	120

ATTACHMENT B

Qualifications based on Matrix Spike Exceedances

Qualifications based on Matrix Spike Exceedances

Sample ID	SDG	Method	Matrix	Analyte	Result	Units	Lab Qualifiers	Validation Qualifiers	Validation Reason Code	RPD	RPD Limit	MS % Recovery	MSD % Recovery	LCL	UCL
EBD-100713-B	440-58969-1	SW9034	Soil	Sulfide	20	mg/kg	U	UJ	m			35	31	75	125
EBD-100713-N-SW	440-58969-1	SW9034	Soil	Sulfide	20	mg/kg	U	UJ	m			35	31	75	125
EBD-100713-S-SW	440-58969-1	SW9034	Soil	Sulfide	20	mg/kg	U	UJ	m			35	31	75	125
EBD-100713-W-SW	440-58969-1	SW9034	Soil	Sulfide	20	mg/kg	U	UJ	m			35	31	75	125

ATTACHMENT C

Qualifications based on Quantitation Issues

Qualifications based on Quantitation Issues

Sample ID	SDG	Method	Matrix	Analyte	Result	Units	Lab Qualifiers	Validation Qualifiers	Validation Reason Code
EBD-100713-B	440-58969-1	SW8081A	Soil	4,4'-DDT	15	ug/kg		J	dc
EBD-100713-B	440-58969-1	SW8081A	Soil	beta-BHC	2.1	ug/kg	Jp	J	dc
EBD-100713-S-SW	440-58969-1	SW8081A	Soil	Endosulfan II	200	ug/kg		J	dc,s

Appendix I
Cesare, Inc. Geotechnical Report



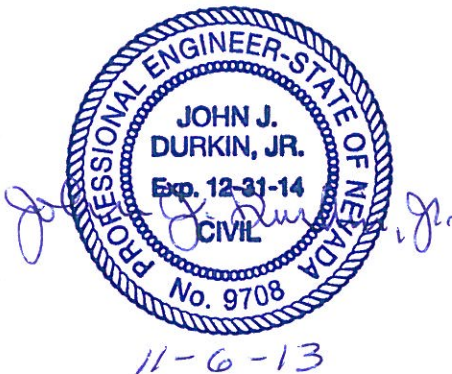
SUMMARY GRADING REPORT

NEVADA ENVIRONMENTAL RESPONSE TRUST SITE
EAST END OF BETA DITCH
Henderson, Nevada

Project No.: 13.1078E

Report prepared for:

Mr. Dan Clark
ENVIRON International Corporation
2200 Powell Street, Suite 700
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John J. Durkin, Jr., P.E.
Principal

November 6, 2013

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INTRODUCTION

This summary grading report presents the results of construction observations and field and laboratory tests conducted during earthwork operations for the NEVADA ENVIRONMENTAL RESPONSE TRUST SITE – EAST END OF BETA DITCH excavation located in Henderson, Nevada.

The conclusions and recommendations contained in this report are based on the observations and testing of earthwork performed during two days, on October 11, 2013 and October 14, 2013.

PURPOSE AND SCOPE

The purpose of our field representation at the site was to provide the owner a source of professional advice, opinions and recommendations of the contractor's work; however it did not include any superintending, supervision or direction of the actual work performed by the contractor or the contractor's workmen. The scope of our services included the following:

1. Full time observations and materials testing during the two days that grading and fill placement was performed to fill the east end Beta Ditch excavation.
2. Laboratory testing of imported soils to evaluate maximum dry density, optimum moisture content, plasticity index, expansion and particle size distribution.
3. Preparation of daily observation reports and this grading report summarizing the results of our field and laboratory tests performed during site grading.

SITE DESCRIPTION

The east end of the Beta Ditch excavation is approximately 2,100 square feet in area, approximately 8 feet in depth and connected to an excavation on the adjacent Timet property. At the time grading began the east end of the Beta Ditch had been excavated and the bottom of the excavation was moisture conditioned as necessary and re-compacted.

OBSERVATIONS OF GRADING OPERATIONS

Prior to fill placement, the contractor removed all unsuitable deposits that included vegetation, organic material, debris, and loose soil materials within the proposed areas to receive structural fill. Import materials from the Boulder Ranch Pit were used for structural fill and were placed on a horizontal plane in approximately 12-inch maximum loose lifts, moisture conditioned, and compacted. Fill material was placed to fill the excavation to the same level as the adjacent ground elevations.

Fill materials were moisture conditioned within ± 2 percent of optimum moisture content and compacted to a minimum of 92 percent relative compaction as determined by ASTM D1557 test method. The observed excavation, grading and fill placement was in compliance with the referenced grading recommendations.

FIELD AND LABORATORY TESTING

Cesare, Inc. on-site grading inspector, Francisco Vigil, observed construction operations and performed in-place density testing. Field density and moisture content was determined with a nuclear density gauge during grading, in general accordance with ASTM D6938 test method. Approximate elevations and locations of the tests performed were referenced from survey stakes present during site grading. Results of field density and moisture content tests are shown in Table 1.

Laboratory tests were performed on the import materials. These tests included moisture/density relationships, plasticity index, expansion and particle size distribution. Laboratory test results are summarized in Table 2 and test reports are provided in Appendix A.

CONCLUSIONS AND RECOMMENDATIONS

Based on our field observations, field testing, and laboratory test results, it is our opinion that preparation, placement and compaction of fill material has been performed in substantial compliance with the recommendations provided in the referenced grading recommendations.

LIMITATIONS

The professional judgments expressed in this report meet the standard care of our profession. The conclusions and recommendations are based on the results of our full-time observations and testing during two days of grading operations. If unexpected conditions are observed during construction or in the event that changes in use of this area are planned, we should be notified to review the recommendations contained in this report.

REFERENCES

"Grading Recommendations, East End of Beta Ditch Excavation, Nevada Environmental Response Trust Site", Henderson, Nevada, Project No: 13.1078, by Cesare, Inc. dated June 10, 2013.

TABLE 1**NERT SITE BETA DITCH**

Project No.: 13.1078E

Summary of Field Density Tests

Test No.	Date	Test Locations	Lift/ Elev.	Soil Type No.	Field Moisture Content (%)	Field Dry Density (pcf)	Relative Compaction		Remarks
							Field (%)	Spec. (%)	
1	11-Oct-13	E. Beta Ditch N. Side	6' BTOF	13-0338	6.1	125.8	95%	92%	Pass
2	11-Oct-13	E. Beta Ditch N. Side	5' BTOF	13-0338	4.7	126.1	95%	92%	Pass
3	11-Oct-13	E. Beta Ditch S. Side	6' BTOF	13-0338	4.2	128.0	97%	92%	Pass
4	11-Oct-13	E. Beta Ditch S. Side	5' BTOF	13-0338	7.9	123.0	93%	92%	Pass
5	11-Oct-13	E. Beta Ditch Center	4' BTOF	13-0338	4.7	125.9	95%	92%	Pass
6	11-Oct-13	E. Beta Ditch N. Side Center	3' BTOF	13-0338	4.2	122.3	92%	92%	Pass
7	11-Oct-13	E. Beta Ditch N. Side Center	2' BTOF	13-0338	4.4	124.5	94%	92%	Pass
8	14-Oct-13	E. Beta Ditch Center	1' BTOF	13-0338	5.7	129.2	98%	92%	Pass
9	14-Oct-13	E. Beta Ditch S. Side Center	TOF	13-0338	4.9	127.0	96%	92%	Pass
10	14-Oct-13	E. Beta Ditch Roadway	TOF	13-0338	6.2	128.4	97%	92%	Pass

NOTES: TOF = Top of Fill

BTOF = Below Top of Fill

TABLE 2

SUMMARY OF SOIL CHARACTERISTICS

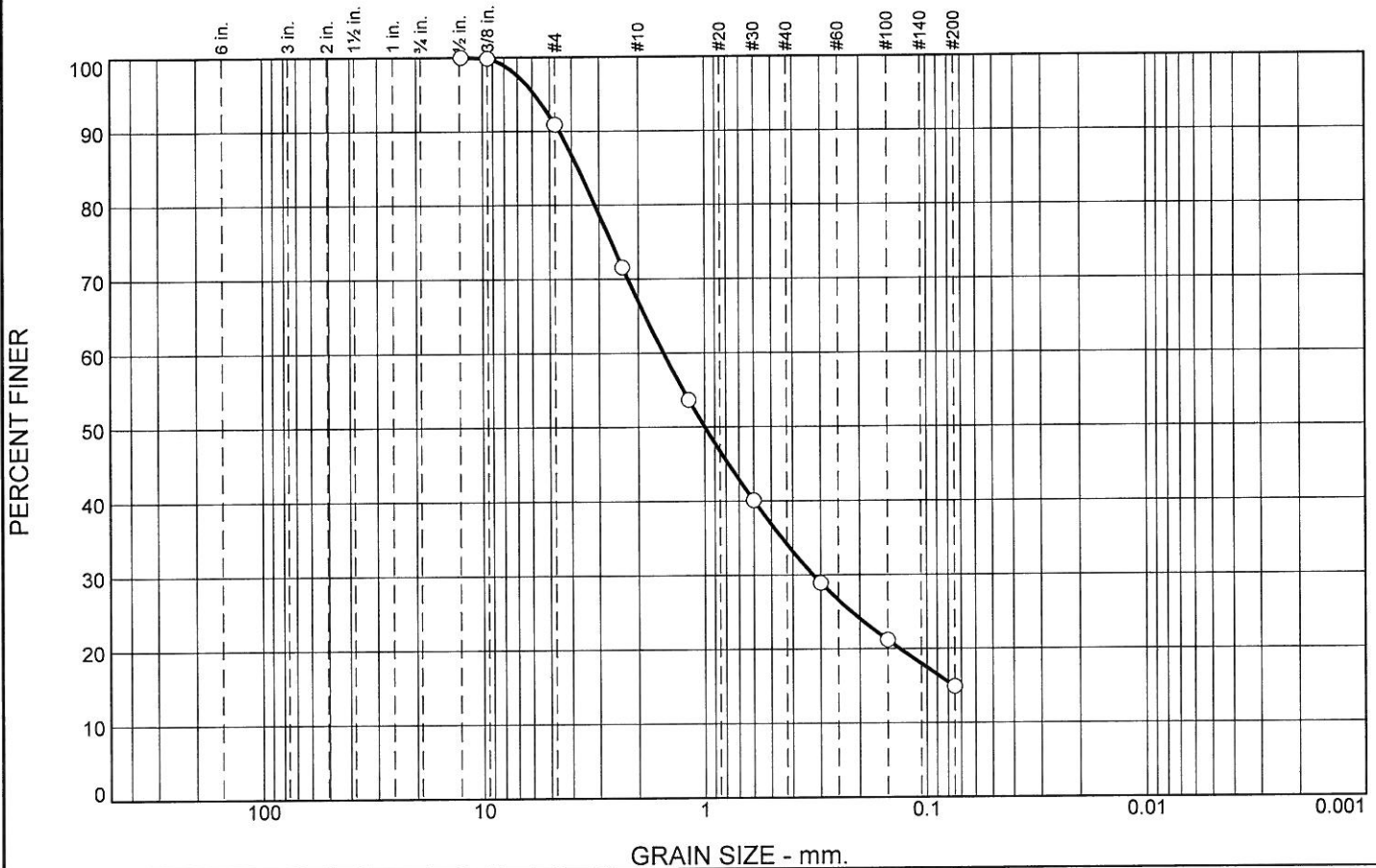
(See Appendix A for Test Reports)

Lab No.	USCS Description (Classification)	Maximum Dry Density (pcf)	Optimum Moisture Content (%)	ASTM Test Method
13-0338	Import – Boulder Ranch Pit Silty SAND (SM)	132.4	6.2	D 1557-09 C

APPENDIX A

Laboratory Test Results

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	9	24	33	19	15	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1/2	100		
3/8	100		
#4	91		
#8	72		
#16	54		
#30	40		
#50	29		
#100	21		
#200	15		

Soil Description

silty sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 4.5643 D₈₅= 3.7524 D₆₀= 1.5367
D₅₀= 0.9976 D₃₀= 0.3237 D₁₅= 0.0759
D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-1-b

Remarks

Expansion Potential=0.0%

* (no specification provided)

Location: Import - Boulder Ranch Pit Stockpile, East Side
Sample Number: 13-0338

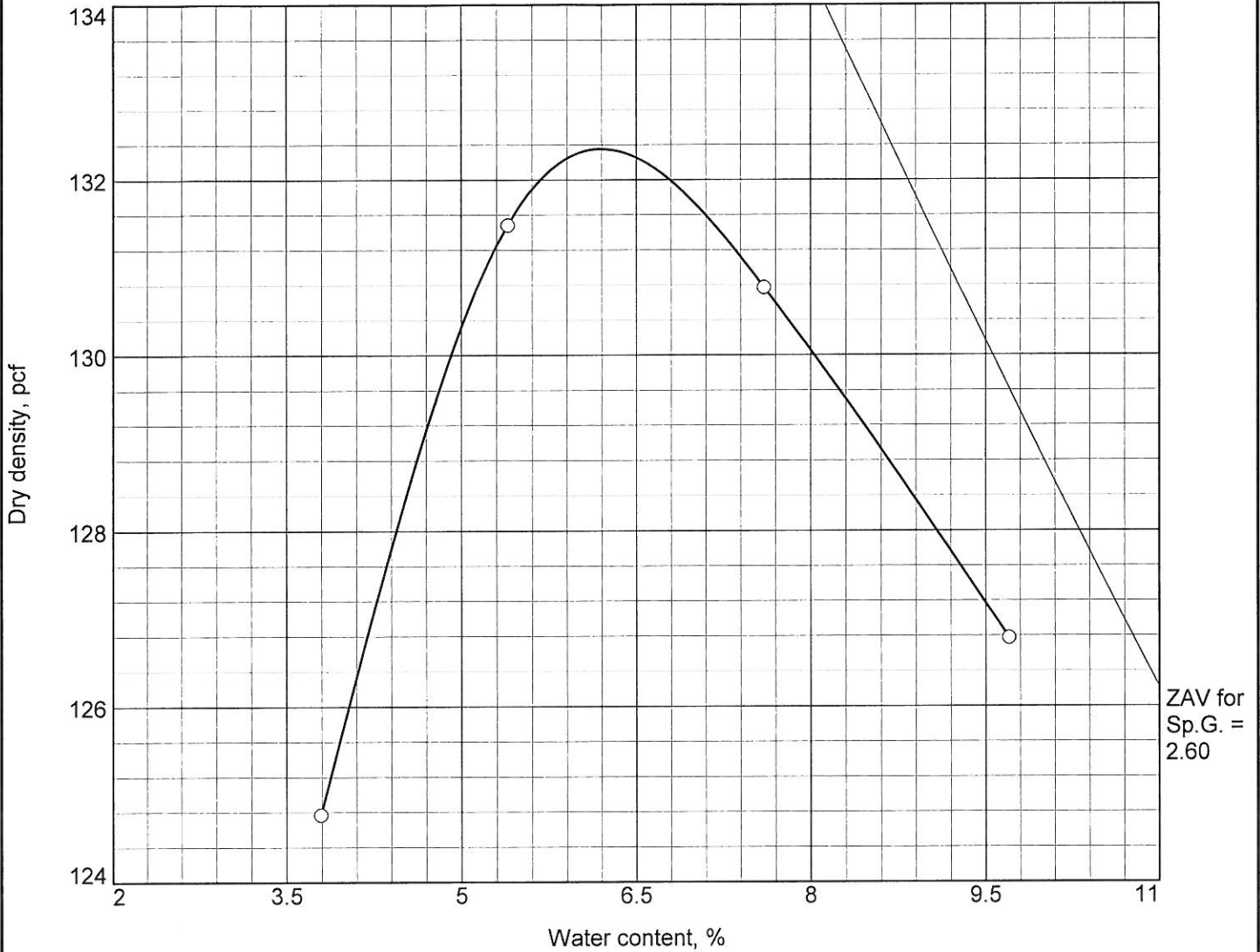
Date: 10/11/2013



Client: Environ
Project: NV Environ. Response Trust Site
East End of Beta Ditch
Project No: 13.1078

Figure 13-0338

COMPACTION TEST REPORT



Test specification: ASTM D 1557-09 Method A Modified

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > #4	% < No.200
	USCS	AASHTO						
	SM	A-1-b			NV	NP	9	15

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 132.4 pcf Optimum moisture = 6.2 %	silty sand

Project No. 13.1078 **Client:** Environ
Project: NV Environ. Response Trust Site
 East End of Beta Ditch
 ○ **Loc.:** Import - Boulder Ranch Pit Stockpile, East Side **Sample No.:** 13-0338

Remarks:

JOSEPH A. CESARE AND ASSOCIATES, INC.

Figure 13-0338