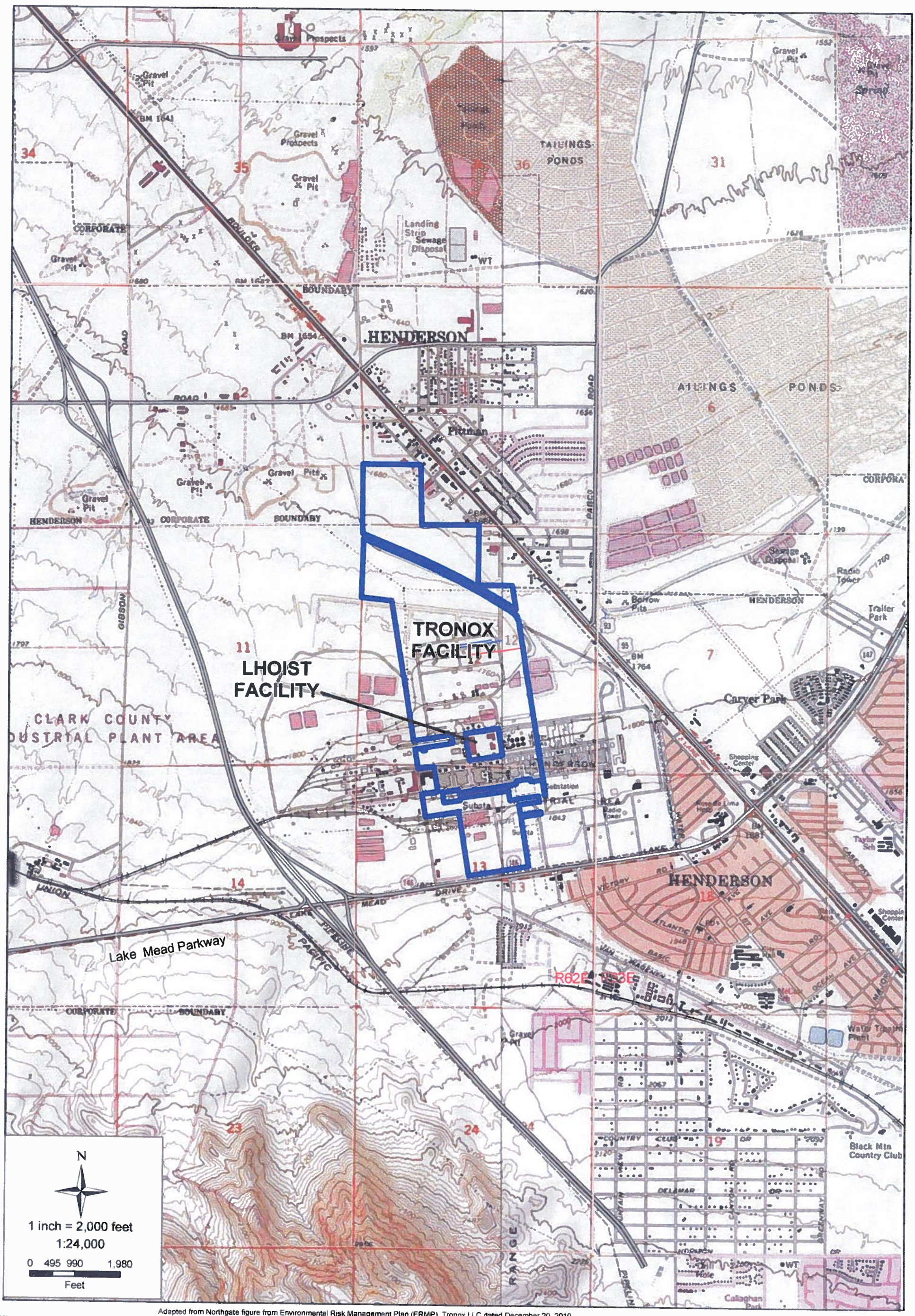
Q:\DRAWINGS\2126210A\2126210A-FIG-1-3-29.PDF



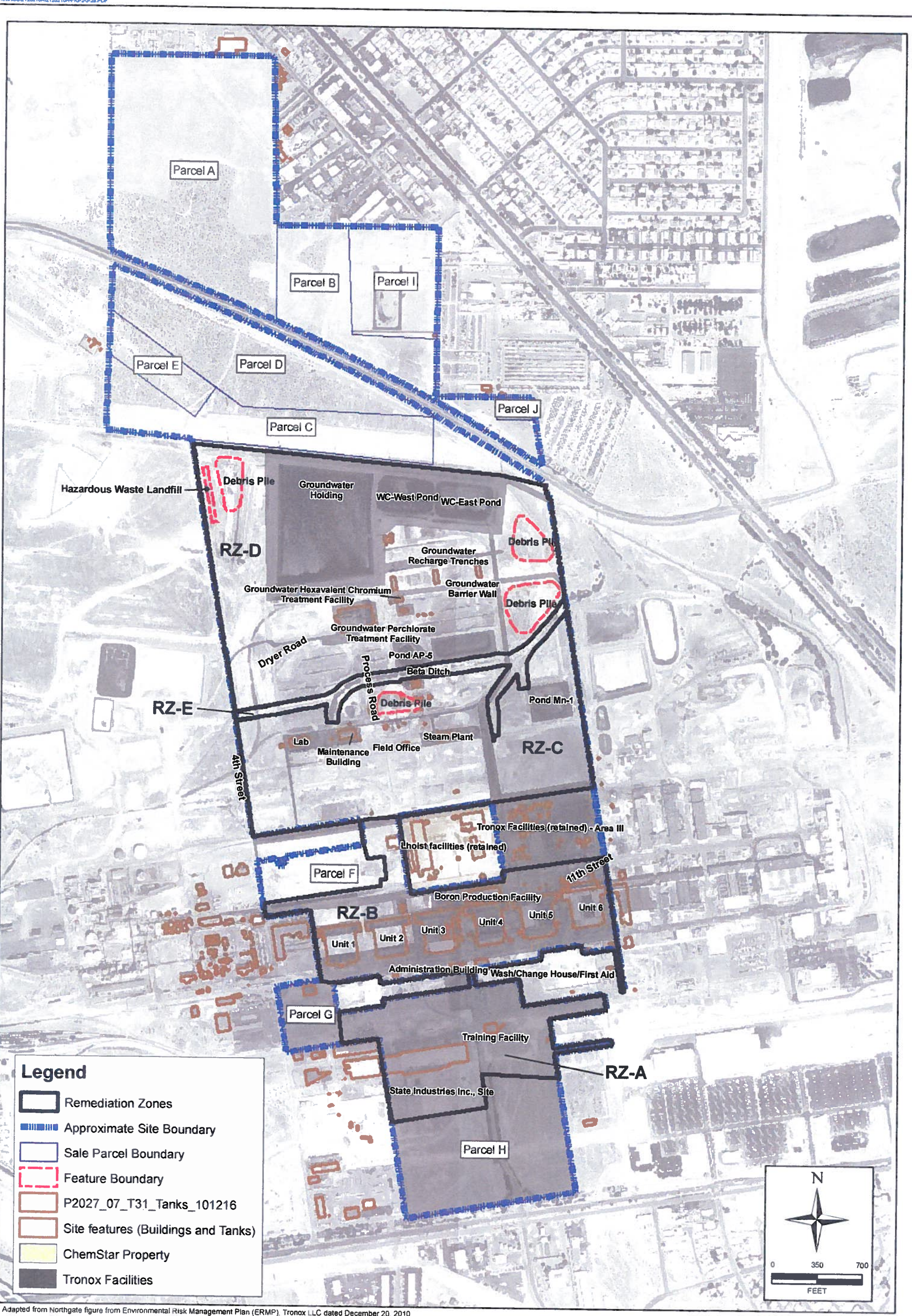

Adapted from Northgate figure from Environmental Risk Management Plan (ERMP), Tronox LLC dated December 20, 2010.

| FIGURE NUMBER: | SITE LOCATION MAP | DESIGNED BY: | REVISIONS | | | |
|---|---|---|---|---|---|---|
| 1 | Site Management Plan | OS | NO. | DESCRIPTION | DATE: | BY |
| SHEET NUMBER: | Nevada Environmental Response Trust | DRAWN BY: | | | | |
| 1 | Henderson, Nevada | OS | | | | |
| | | CHECKED BY: | | | | |
| | | LMS | | | | |
| | | APPROVED BY: | | | | |
| | | LMS | | | | |

| SCALE: | DATE: | PROJECT NUMBER: |
|---|---|---|
| 1:24,000 | 12/17/2010 | 21-26210A |

ENVIRON

B1




Adapted from Northgate figure from Environmental Risk Management Plan (ERMP), Tronox LLC dated December 20, 2010

| SHEET NUMBER: | FIGURE NUMBER: |
|---|---|
| 1 | 2 |

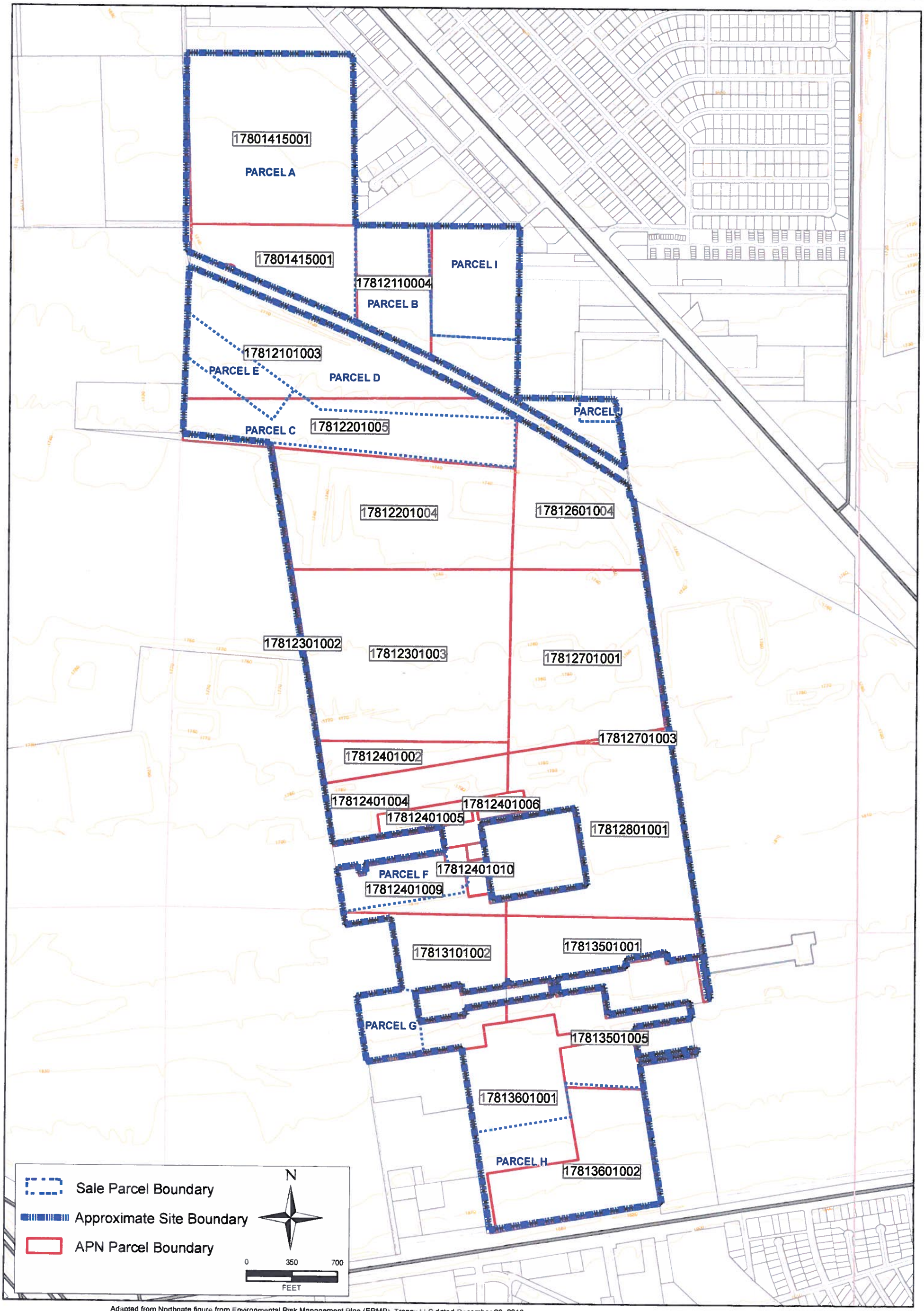
**SITE FEATURES**
Site Management Plan
Nevada Environmental Response Trust
Henderson, Nevada

| SCALE: | DATE: | PROJECT NUMBER: |
|---|---|---|
| 1 in = 700 ft | 12/20/2010 | 21-26210A |

| DESIGNED BY: | REVISIONS | | | |
|---|---|---|---|---|
| NGEM | NO.: | DESCRIPTION: | DATE: | BY: |
| DRAWN BY: | | | | |
| OS | | | | |
| CHECKED BY: | | | | |
| NGEM | | | | |
| APPROVED BY: | | | | |
| NGEM | | | | |

ENVIRON

\\ng-oak1\ng-gis\01_Projects\2027_Tronox\2027_07_RZ_Soil_Remediation_and_Closure\T3_RMP\P2027_07_T3_RMP_F03_Sales_Parcels_101210.mxd Last updated 12/10/2010




Adapted from Northgate figure from Environmental Risk Management Plan (ERMP), Tronox LLC dated December 20, 2010.

| SHEET NUMBER | FIGURE NUMBER |
|---|---|
| 1 | 3 |

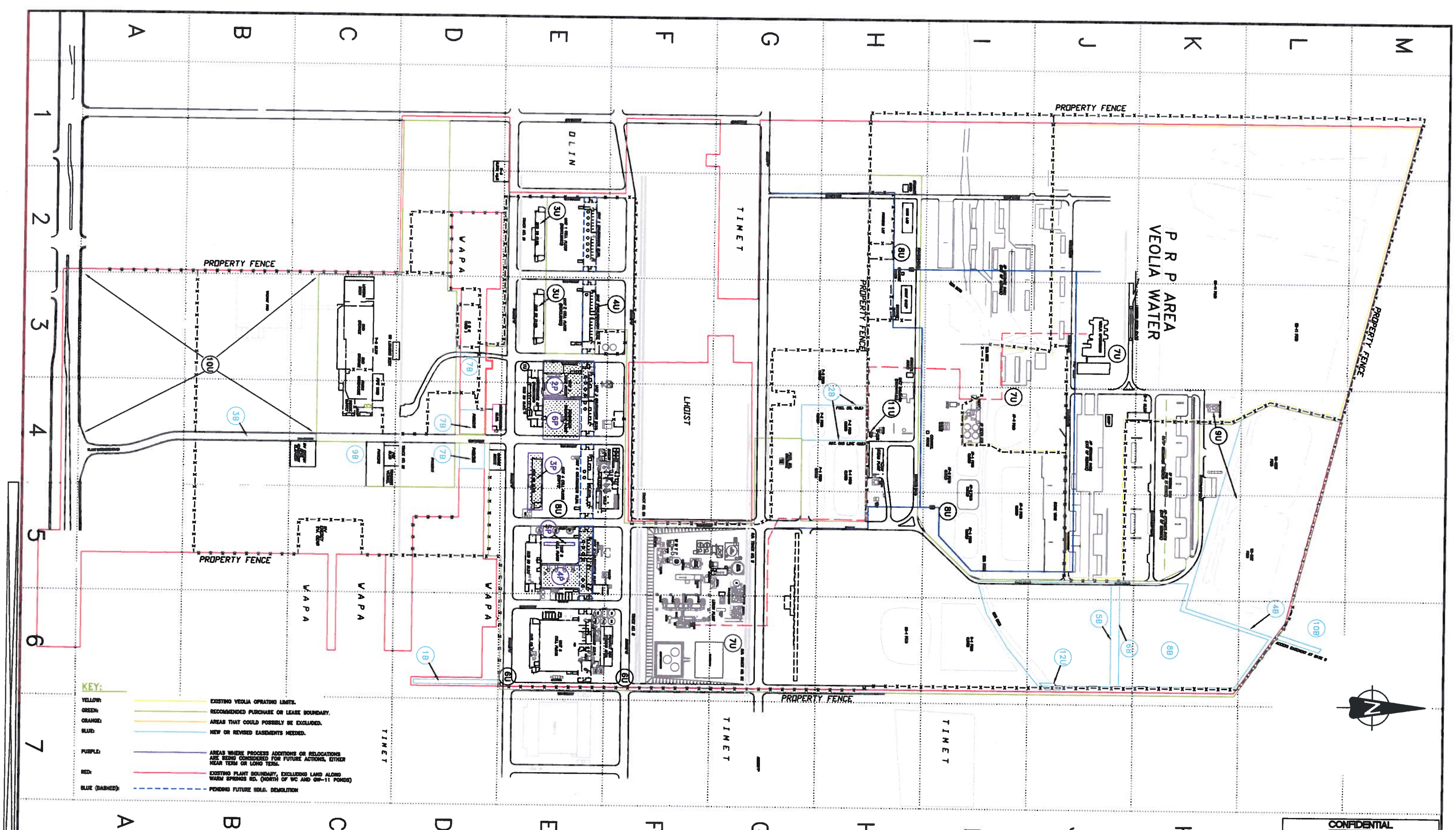
**TRONOX SALE PARCELS**
Site Management Plan
Nevada Environmental Response Trust
Henderson, Nevada

| SCALE: | DATE: | PROJECT NUMBER: |
|---|---|---|
| 1 in = 700 ft | 12/10/2010 | 21-26210A |

| DESIGNED BY: | REVISIONS | | | |
|---|---|---|---|---|
| NGEM | NO.: | DESCRIPTION: | DATE: | BY: |
| DRAWN BY: | | | | |
| OS | | | | |
| CHECKED BY: | | | | |
| NGEM | | | | |
| APPROVED BY: | | | | |
| NGEM | | | | |

ENVIRON

B2

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AFE No. _____ JOB No. _____

**REVISIONS** (CHECKED BY ALL PERSONS OF ALL DRAWINGS WORK THEIR LATEST REVISION)

| REV | DESCRIPTION | BY | DATE |
|---|---|---|---|
| 01 | SUB 10 BLDG ADDED TO BOUNDARY | GMB | 6/4/10 |
| 02 | MODIFIED PARKING AREA/CRC YARD 1 | GMB | 6/29/10 |
| 03 | RECOMMENDED BOUNDARY REVISED FROM "PURCHASE" TO "PURCHASE OR LEASE" | GMB | 9/20/10 |
| 04 | REMOVED UNIT 2 CHLORINATOR BUILDG & EVAC ROUTE SOUTH OF UNIT 6 | GMB | 1/11/11 |
| 05 | JAN. 12, 2011 MEETING UPDATES | GMB | 1/12/11 |

TRONOX

| APPROVED FOR CONSTRUCTION | BY | DATE | | BY | DATE |
|---|---|---|---|---|---|
| SAFETY | | | PROCESS ENGR. | | |
| ENVIRONMENTAL | | | PROJECT ENGR. | | |
| MAINTENANCE | | | ENGR. MNGR. | | |
| QUALITY | | | PROD. MNGR. | | |
| INSTRUMENTATION | | | PLANT MNGR. | | |

| DESIGN | DATE |
|---|---|
| DRAWN BY GM BUCO | 10/3/09 |
| PROJ. ENGR. | |
| ENGR. MNGR. SM HAIGH | |

# TRONOX DUE DILIGENCE HENDERSON FACILITY SITE MAP

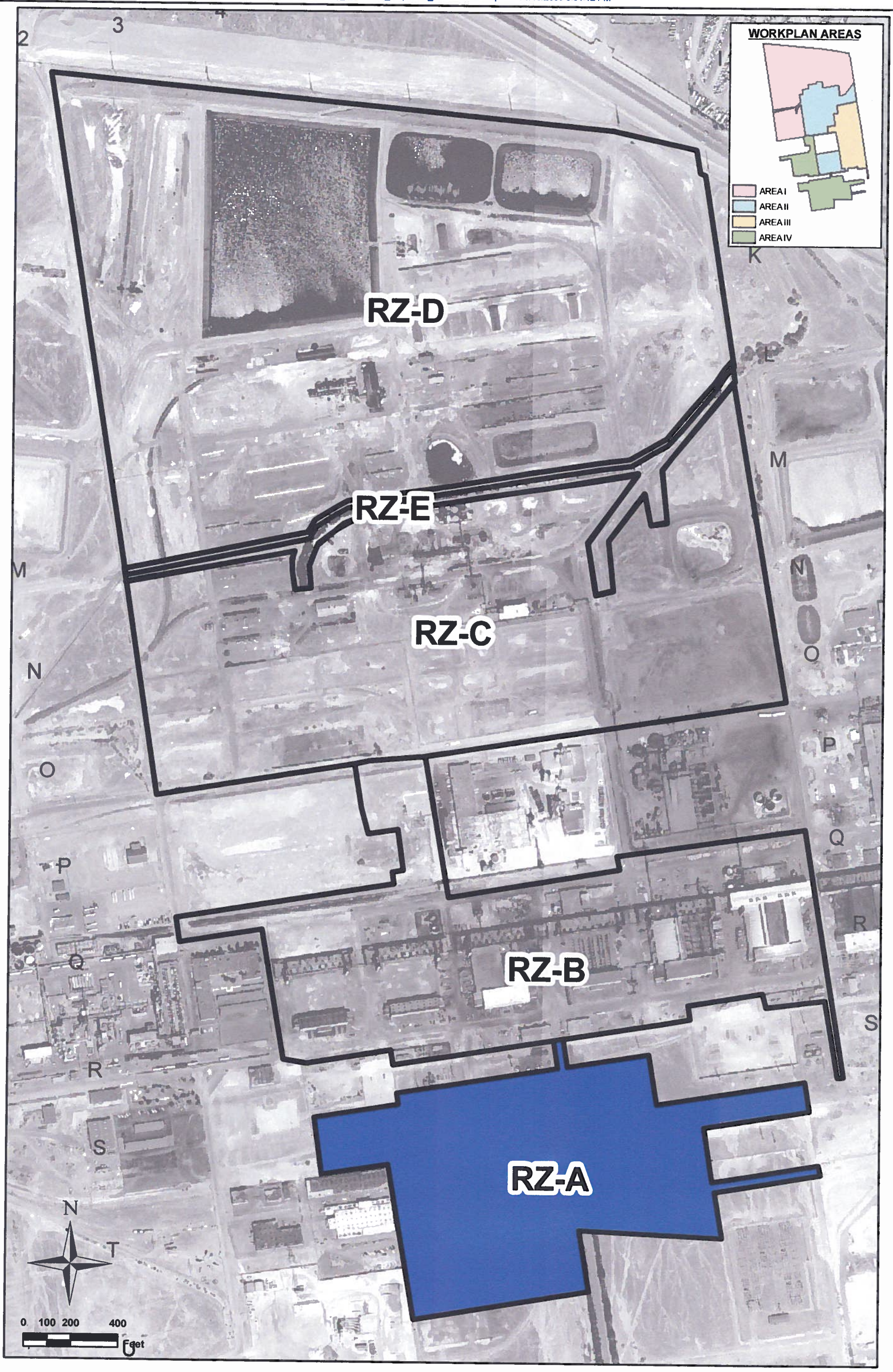
SCALE: AS NOTED

DRAWING NO. A-00-1-169

SHEET 1 OF 2

REVISION 05

\\Ng-oak1\NG-GIS\Projects\2027_Tronox\NGEM\Groundwater_Reports\2009_annual_report\fig_1_location_map-PHB_R01.mxd Last updated 8/18/2009 5:01:12 PM




| | | | |
|---|---|---|---|
| FIGURE NUMBER: 2 | REMEDIATION ZONE A<br>Tronox LLC<br>Henderson Nevada | | |
| SHEET NUMBER: 1 | SCALE: 1 inch 400 feet | DATE: 06/17/10 | PROJECT NUMBER: 2027.07 |

| DESIGNED BY | REVISIONS | | | |
|---|---|---|---|---|
| NGE | NO. | DESCRIPTION | DATE | BY |
| DRAWN BY | | | | |
| NGE | | | | |
| CHECKED BY | | | | |
| NGEM | | | | |
| APPROVED BY | | | | |
| NGEM | | | | |

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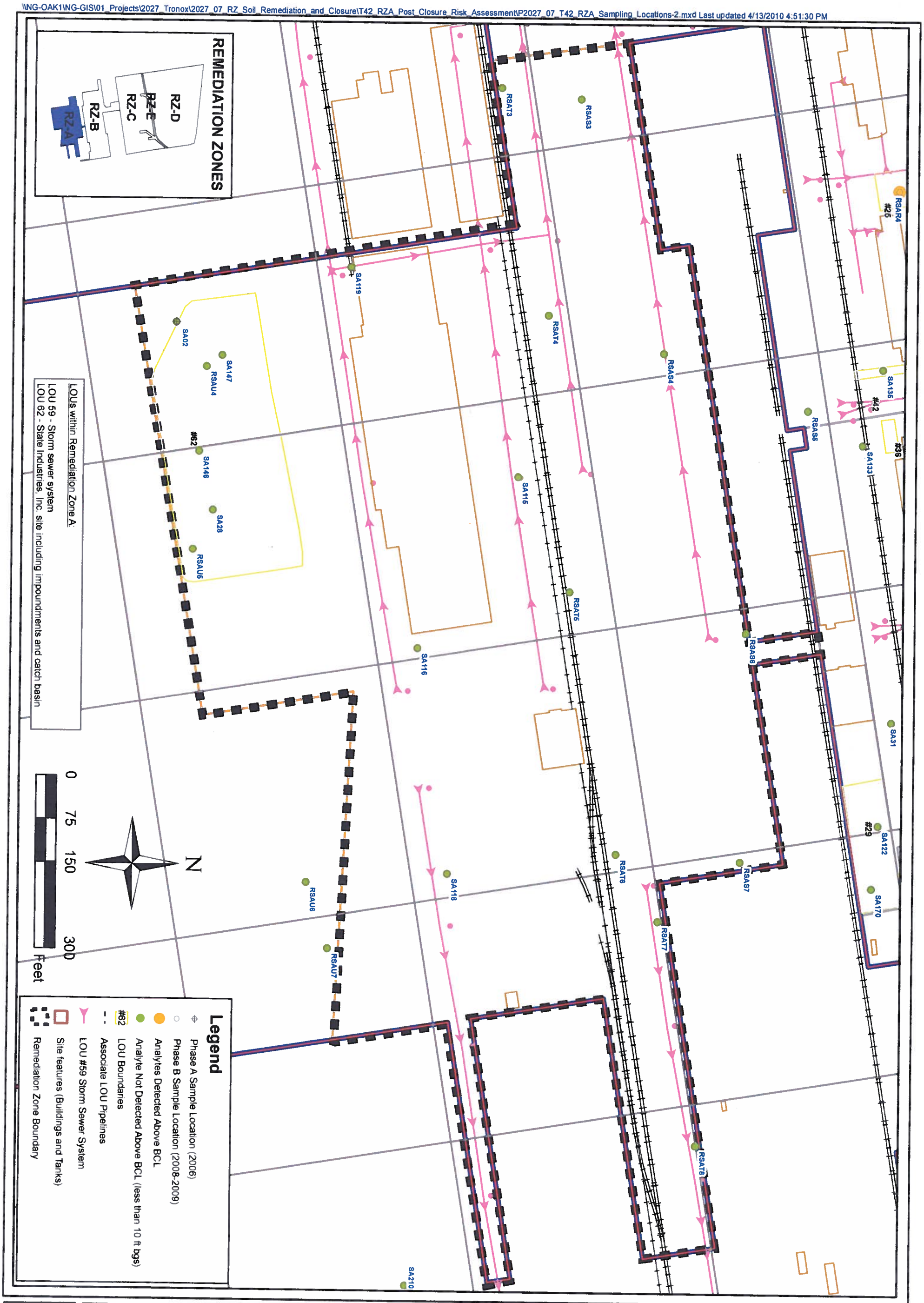
B5

\\NG-OAK1\NG-GIS\01_Projects\2027_Tronox\2027_07_RZ_Soil_Remediation_and_Closure\T42_RZA_Post_Closure_Risk_Assessment\P2027_07_T42_RZA_Sampling_Locations-2.mxd Last updated 4/13/2010 4:51:30 PM




| FIGURE NUMBER: | SHEET NUMBER: |
|---|---|
| 3 | 1 |

**REMEDIATION ZONE A SOIL SAMPLE LOCATIONS**
Tronox LLC
Henderson, Nevada

| SCALE: | DATE: | PROJECT NUMBER: |
|---|---|---|
| 1 in = 150 ft | 06/17/10 | 2027.07 |

| DESIGNED BY: | REVISIONS | | | |
|---|---|---|---|---|
| NGEM | NO: | DESCRIPTION: | DATE: | BY: |
| DRAWN BY: | | | | |
| NGEM | | | | |
| CHECKED BY: | | | | |
| NGEM | | | | |
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B6

# RZ-B EXCAVATION AREAS AND NATURE AND EXTENT OF CONTAMINATION

RZ-B Excavation Plan
Tronox LLC
Henderson, Nevada

| SCALE | DATE | PROJECT NUMBER |
|---|---|---|
| 1 in = 100 ft | 11/24/10 | 2027.01 T90 |

| DESIGNED BY | REVISIONS | | | |
|---|---|---|---|---|
| NGEM | NO | DESCRIPTION | DATE | BY |
| DRAWN BY: | | | | |
| OS | | | | |
| CHECKED BY: | | | | |
| NGEM | | | | |
| APPROVED BY: | | | | |
| NGEM | | | | |

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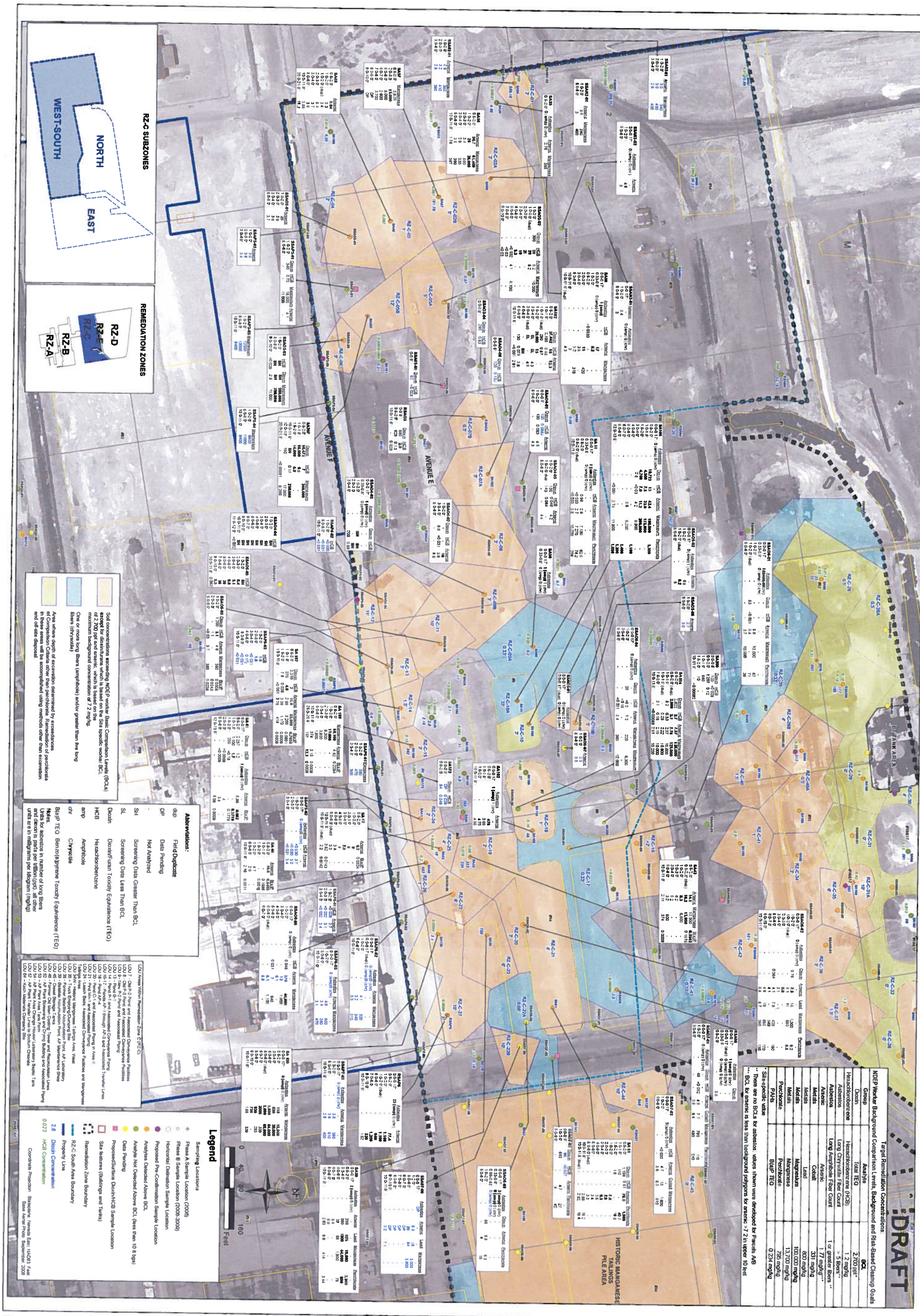
FIGURE NUMBER 1

SHEET NUMBER 1

B7




**REMEDIATION ZONE C-WEST AND -SOUTH EXCAVATION**

RZ-C Excavation Plan
Tronox LLC
Henderson, Nevada

| SCALE | DATE | PROJECT NUMBER |
|---|---|---|
| 1 in = 80 ft | 10/12/10 | 2027.01 T90 |

FIGURE NUMBER: 2a
SHEET NUMBER: 1

| DESIGNED BY: | REVISIONS | | | |
|---|---|---|---|---|
| NGEM | NO. | DESCRIPTION | DATE | BY |
| DRAWN BY: | | | | |
| OS | | | | |
| CHECKED BY: | | | | |
| NGEM | | | | |
| APPROVED BY: | | | | |
| NGEM | | | | |

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B8

DRAFT

RZ-C SUBZONES

NORTH

EAST

WEST-SOUTH

REMEDIATION ZONES

RZ-D

RZ-C

RZ-B

RZ-A

**Target Remediation Concentrations**

NDEP Worker Background Comparison Levels, Background and Risk-Based Cleanup Goals

| Group | Analyte | BCL |
|---|---|---|
| Dioxin | Total TEQ | 2,700 ppt* |
| Hexachlorobenzene | Hexachlorobenzene (HCB) | 1.2 mg/kg |
| Asbestos | Long Chrysotile Fiber Count | > 5 fibers** |
| Asbestos | Long Amphibole Fiber Count | 1 or greater fibers ** |
| Arsenic | Arsenic | 1.77 mg/kg*** |
| Metals | Cobalt | 331 mg/kg |
| Metals | Lead | 800 mg/kg |
| Metals | Magnesium | 100,000 mg/kg |
| Metals | Manganese | 13,700 mg/kg |
| Perchlorate | Perchlorate | 795 mg/kg |
| PAHs | B(a)P TEQ | 0.234 mg/kg |

* Site-specific value

** There are no BCLs for asbestos; values shown were developed for Parcels A/B

*** BCL for arsenic is less than background polygons for arsenic >7.2 in upper 10 feet

AREA I

BY TANK AREA

POND MN-1

HISTORIC MANGANESE TAILINGS PILE AREA

AVENUE E

AVENUE F

Soil concentrations exceeding NDEP worker Basic Comparison Levels (BCLs) except for dioxin/furans which is based on the Site specific worker BCL of 2,700 ppt and arsenic, which is based on the maximum background concentration of 7.2 mg/kg

One or more long fibers (amphibole) and/or greater than five long fibers (chrysotile)

Area where depth of excavation determined by exceedances of Comparison Criteria other than perchlorate. Remediation of perchlorate in these areas will be accomplished using methods other than excavation and off-site disposal.

**Abbreviations:**

| | |
|---|---|
| dup | Field Duplicate |
| DP | Data Pending |
| - | Not Analyzed |
| SH | Screening Data Greater Than BCL |
| SL | Screening Data Less Than BCL |
| Dioxin | Dioxin/Furan Toxicity Equivalence (TEQ) |
| HCB | Hexachlorobenzene |
| amp | Amphibole |
| chr | Chrysotile |
| B(a)P TEQ | Benzo(a)pyrene Toxicity Equivalence (TEQ) |

Notes:
Units for asbestos in number of long fibers and dioxin is parts per trillion (ppt), all other units are in milligrams per kilogram (mg/kg).

LCU Areas Within Remediation Zone C (RZ-C)

LCU 7 - Old P-2 Pond and Associated Conveyance Facilities
LCU 8 - Old P-3 Pond and Associated Conveyance Facilities
LCU 9 - New P-2 Pond and Associated Piping
LCU 13 - Pond B-1
LCU 14 - Pond P-1 and Associated Conveyance Piping
LCU 16-17 - Ponds AP-1 through AP-3 and Associated Transfer Lines
LCU 18 - Pond AP-4
LCU 20 - Pond C-1 and Associated Piping in Area II
LCU 21 - Pond Mn-1 and Associated Piping
LCU 24 - Leach Beds, Associated Conveyance Facilities and Manganese Tailings Area
LCU 34W - Historic Manganese Tailings Area, West
LCU 35 - Truck Emptying/Dumping Site
LCU 36 - Former Satellite Accumulation Point, AP Laboratory
LCU 39 - Satellite Accumulation Point, AP Maintenance Shop
LCU 45 - Diesel Storage Tanks
LCU 46 - Former Old Main Cooling Tower and Recirculation Lines
LCU 52 - AP Plant Screening and Drying Building and Associated Piping
LCU 53 - AP Plant Area Tank Farm
LCU 54 - AP Plant Area Change House/ Laboratory Septic Tank
LCU 57 - AP Plant Transfer Lines to Sodium Chlorate
LCU 64 - Koch Materials Company Site

**Legend**

Sampling Locations

- Phase A Sample Location (2006)
- Phase B Sample Location (2008-2009)
- Horizontal Delineation Sample Location
- Proposed Pre-Confirmation Sample Location
- Analytes Detected Above BCL
- Analyte Not Detected Above BCL (less than 10 ft bgs)
- Data Pending
- Proposed Surface Dioxin/HCB Sample Location
- Site features (Buildings and Tanks)
- Remediation Zone Boundary
- RZ-C South Area Boundary
- Property Line
- 2.8 Dioxin Concentration
- 0.029 HCB Concentration

Coordinate Projection: Stateplane Nevada East, NAD83, Feet
Base Aerial Photo: September 2008

0 40 80 160 Feet

N

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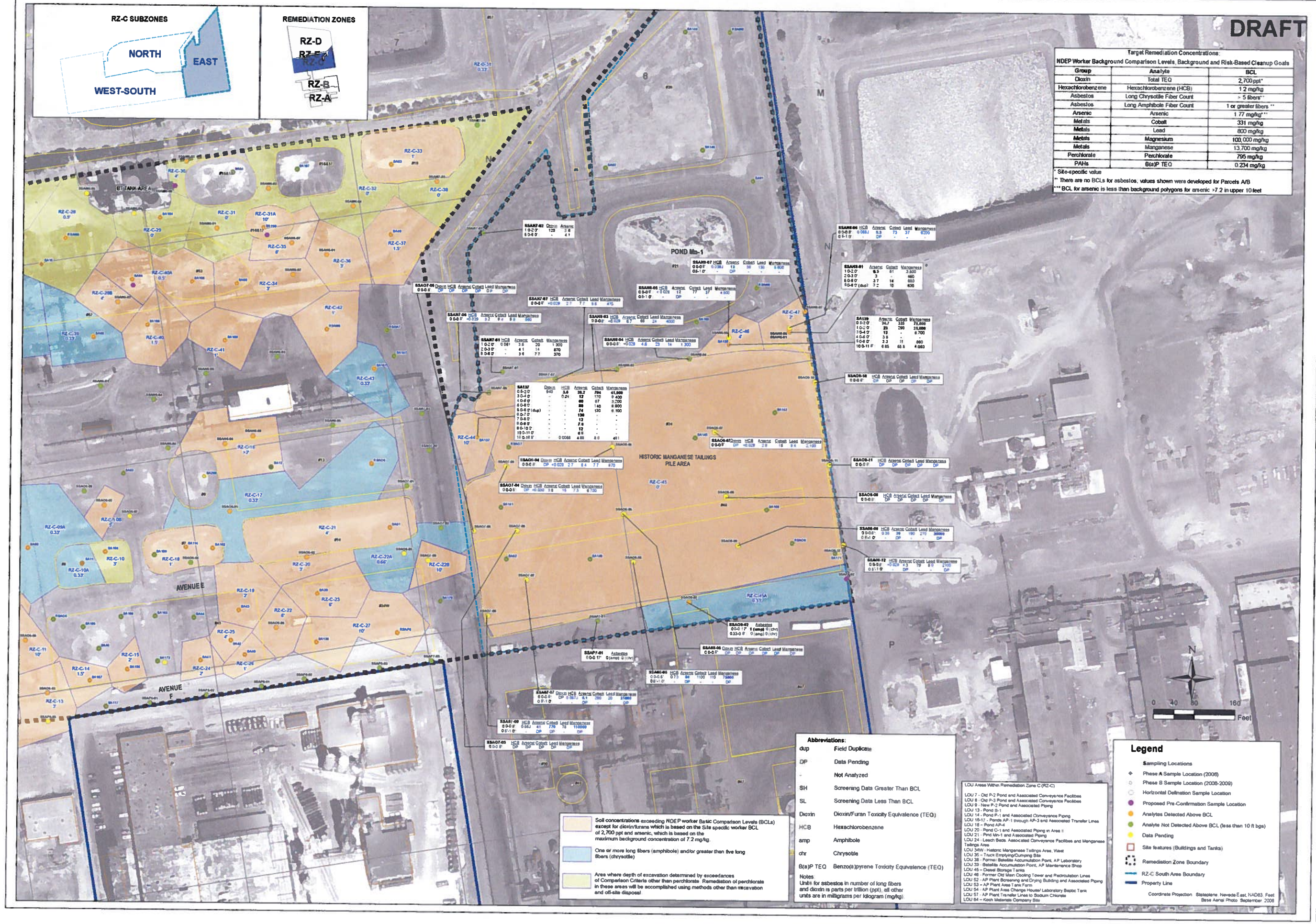
| NO. | REVISIONS DESCRIPTION | DATE | BY |
|---|---|---|---|
| | | | |

DESIGNED BY: NGEM
DRAWN BY: OS
CHECKED BY: NGEM
APPROVED BY: NGEM

**REMEDIATION ZONE C-NORTH EXCAVATION**
RZ-C Excavation Plan
Tronox LLC
Henderson, Nevada

SCALE: 1 in = 80 ft
DATE: 10/12/10
PROJECT NUMBER: 2027.01 T90

FIGURE NUMBER: 2b
SHEET NUMBER: 1

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| REVISIONS | | | |
|---|---|---|---|
| NO. | DESCRIPTION | DATE | BY |
| | | | |

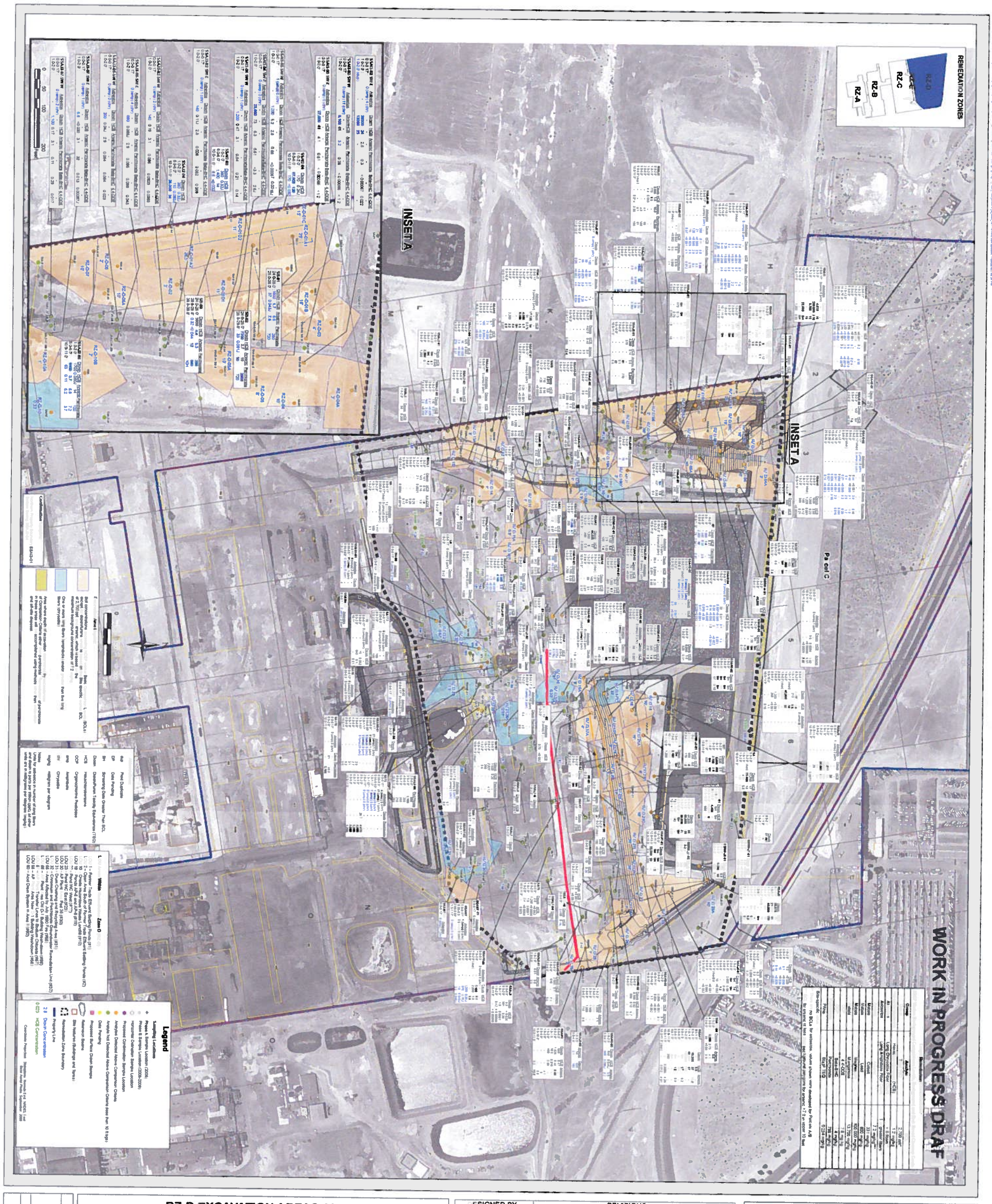
| | |
|---|---|
| DESIGNED BY: | NGEM |
| DRAWN BY: | OS |
| CHECKED BY: | NGEM |
| APPROVED BY: | NGEM |

# REMEDIATION ZONE C-EAST EXCAVATION
RZ-C Excavation Plan
Tronox LLC
Henderson, Nevada

| SCALE: | DATE: | PROJECT NUMBER: |
|---|---|---|
| 1 in = 80 ft | 10/12/10 | 2027.01 T90 |

FIGURE NUMBER
**2c**

SHEET NUMBER
1




**RZ-D EXCAVATION AREAS AND NATURE AND EXTENT OF CONTAMINATION**

RZ-D Excavation Plan
Tronox LLC
Henderson Nevada

| SCALE: | DATE: | PROJECT NUMBER: |
|---|---|---|
| 1 in = 150 ft | 11/29/10 | 202[illegible].01 T90 |

| DESIGNED BY: | REVISIONS | | | |
|---|---|---|---|---|
| NGE[illegible] | NO: | DESCRIPTION: | DATE: | BY: |
| DRAWN BY: | 1 | Revised soil data and incorporated data through 09/30/10 | 09/24/2010 | TXS |
| C[illegible]S | | | | |
| CHECKED BY: | | | | |
| NGEM | | | | |
| APPROVED BY: | | | | |
| NGE[illegible] | | | | |

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SHEET NUMBER: 1 of 1

FIGURE NUMBER: 1

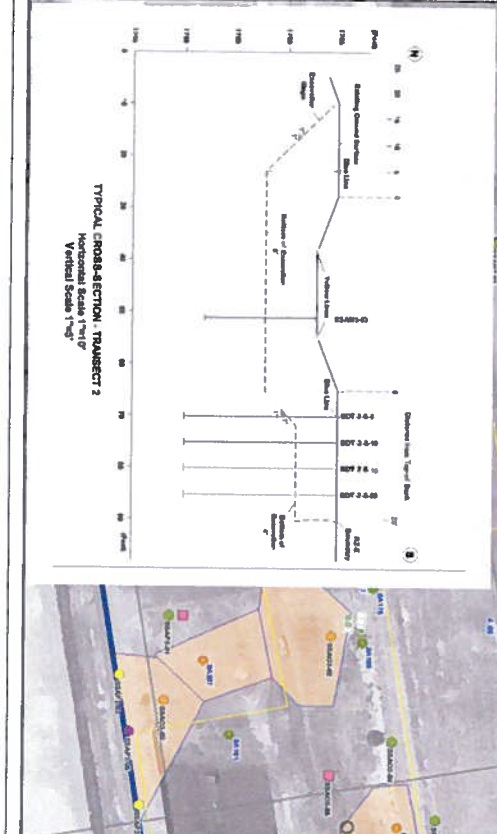
B11

| NDEP Worker Background Comparison Levels, Background and Risk-Based Cleanup Goals | | |
|---|---|---|
| Group | Analyte | BCL |
| Dioxin | Total TEQ | 2,700 ppt* |
| Hexachlorobenzene | Hexachlorobenzene (HCB) | 1.2 mg/kg |
| Asbestos | Long Chrysotile Fiber Count | > 5 fibers** |
| Asbestos | Long Amphibole Fiber Count | 1 or greater fibers** |
| Arsenic | Arsenic | 1.77 mg/kg*** |
| Metals | Lead | 800 mg/kg |
| Metals | Magnesium | 100,000 mg/kg |
| Metals | Manganese | 13,700 mg/kg |
| Perchlorate | Perchlorate | 735 mg/kg |
| OCP | Alpha-BHC | 0.399 mg/kg |
| OCP | Dieldrin | 0.12 mg/kg |
| OCP | 4,4-DDE, 4,4-DDT | 7.8 mg/kg |
| PCBs | Aroclor 1260 | 0.826 mg/kg |
| SVOCs | Benzo(a)pyrene (BaP) | 0.224 mg/kg |

* Site-specific value

** There are no BCLs for asbestos; values shown were developed for Parcels A/B

*** BCL for arsenic is less than background polygons for arsenic >7.2 in upper 10 feet



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INSET A

INSET B

INSET C

RECHARGE TRENCHES

BARRIER WALL

Las Vegas Wash

Las Vegas Valley Lateral

Pittman Lateral

PITTMAN LATERAL

SUNSET ROAD

INTERSTATE 515

PABCO ROAD

BOULDER HIGHWAY

LAKE MEAD PARKWAY

FORMER PEPCON PLANT

R 62 E

R 63 E

**LEGEND**

15 Perchlorate Concentration (mg/L)

NA No Analysis

Sampled Well (April - June, 2010)

Perchlorate Concentration Contour (mg/L) (Dashed where approximate)

Seep Pumping Station

Unsaturated Alluvium

Tronox Facility

Grid: Stateplane, Nevada East, NAD83, Feet

1:12,000
1 inch = 1,000 feet
1,000 500 0 1,000 Feet

PLATE NUMBER 7
SHEET NUMBER 1

# GROUNDWATER PERCHLORATE MAP
# SHALLOW WATER-BEARING ZONE
# SECOND QUARTER 2010

Annual Performance Report
Tronox Facility
Henderson, Nevada

| SCALE: | DATE: | PROJECT NUMBER: |
|---|---|---|
| 1:12,000 | 08/23/10 | 2027 02 T51 |

| DESIGNED BY: | REVISIONS | | | |
|---|---|---|---|---|
| E. Krish | NO. | DESCRIPTION: | DATE: | BY: |
| DRAWN BY: | | | | |
| NGEM | | | | |
| CHECKED BY: | | | | |
| NGEM | | | | |
| APPROVED BY: | | | | |
| NGEM | | | | |

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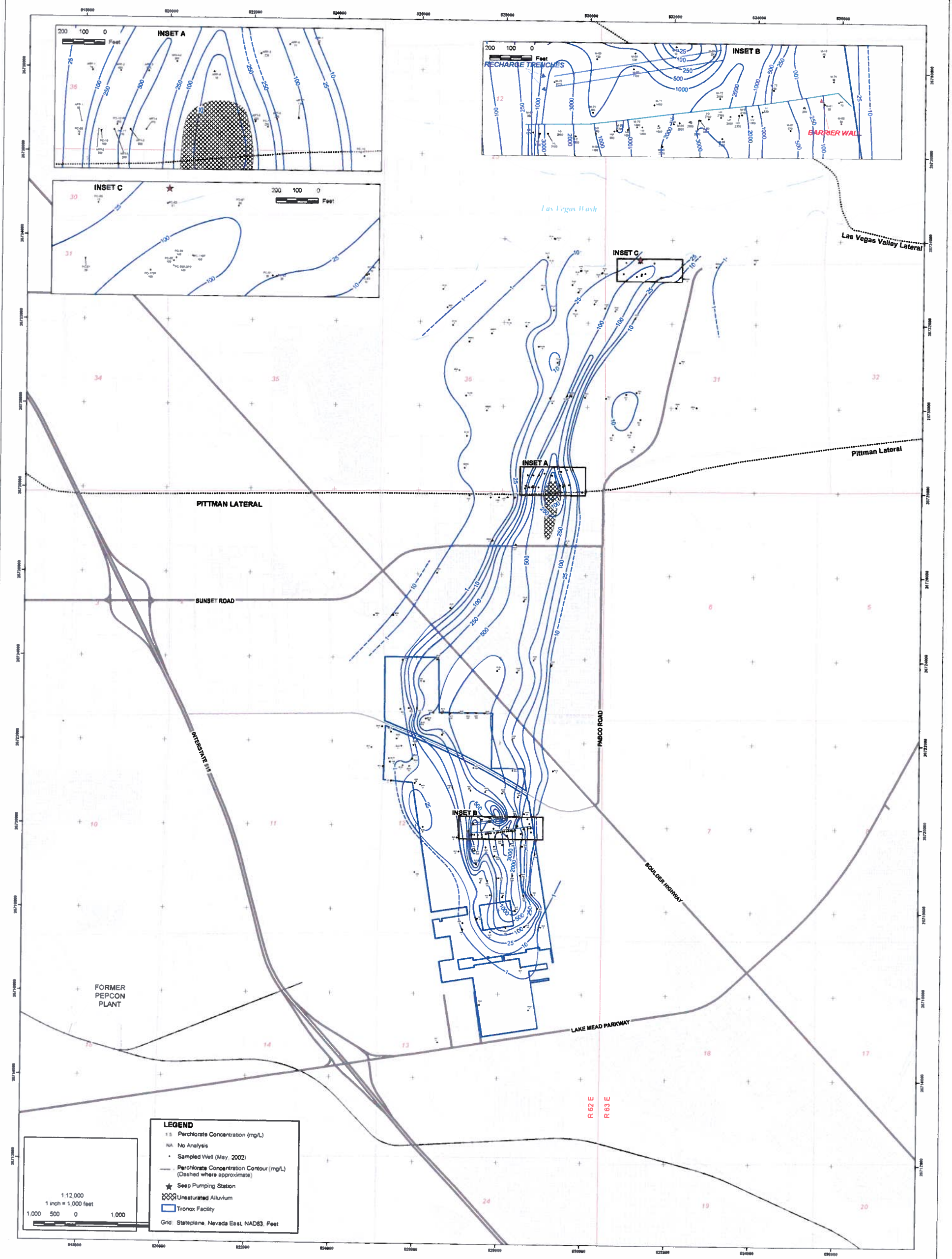


PLATE NUMBER: 7a
SHEET NUMBER: 1

# GROUNDWATER PERCHLORATE MAP
# SHALLOW WATER-BEARING ZONE
# SECOND QUARTER 2002

Annual Performance Report
Tronox Facility
Henderson, Nevada

| SCALE: | DATE: | PROJECT NUMBER: |
|---|---|---|
| 1:12,000 | 08/25/10 | 2027.02 T51 |

| DESIGNED BY: | REVISIONS | | | |
|---|---|---|---|---|
| E Krish | NO. | DESCRIPTION | DATE | BY |
| DRAWN BY: | | | | |
| NGEM | | | | |
| CHECKED BY: | | | | |
| NGEM | | | | |
| APPROVED BY: | | | | |
| NGEM | | | | |

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B14

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INSET A

INSET B

INSET C

RECHARGE TRENCHES

BARRIER WALL

Las Vegas Wash

Las Vegas Valley Lateral

Pittman Lateral

PITTMAN LATERAL

SUNSET ROAD

INTERSTATE 515

PABCO ROAD

BOULDER HIGHWAY

LAKE MEAD PARKWAY

FORMER PEPCON PLANT

R 62 E

R 63 E

**LEGEND**

- 1.5 Total Chromium Concentration (mg/L)
- NA No Analysis
- Sampled Well (April - June, 2010)
- Total Chromium Concentration Contour (mg/L) (Dashed where approximate)
- Seep Pumping Station
- Unsaturated Alluvium
- Tronox Facility

Grid: Stateplane, Nevada East, NAD83, Feet

1:12,000
1 inch = 1,000 feet
1,000 500 0 1,000 Feet

PLATE NUMBER: 6
SHEET NUMBER: 1

# GROUNDWATER TOTAL CHROMIUM MAP SHALLOW WATER-BEARING ZONE SECOND QUARTER 2010

Annual Performance Report
Tronox Facility
Henderson, Nevada

| SCALE: | DATE: | PROJECT NUMBER: |
|---|---|---|
| 1:12,000 | 08/26/10 | 2027 02 T51 |

| DESIGNED BY: | REVISIONS | | | |
|---|---|---|---|---|
| E. Krish | NO. | DESCRIPTION | DATE | BY: |
| DRAWN BY: | | | | |
| NGEM | | | | |
| CHECKED BY: | | | | |
| NGEM | | | | |
| APPROVED BY: | | | | |
| NGEM | | | | |

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B15

J:\TronoxGIS\mxd\Phase_B_WorkPlan\Area I WP\Figure3-Area1-LOUs.mxd

Parcel E

Parcel D

Parcel C

Parcel B

Parcel J

#69

BOULDER HIGHWAY

WARM SPRINGS ROAD

AREA I

Groundwater Injection Trenches

Groundwater Barrier Wall

BMI

Timet

Olin (Formerly Pioneer)

AREA II

AREA III

AREA IV

Chemstar

U.S. Vanadium

Parcel F

N

400 200 0 400 Feet

Area I LOUs

| LOU Number | Name of LOU |
|---|---|
| 1 | Trade Effluent Settling Ponds |
| 2 | Open Area Due South of "Trade Effluent Disposal Ponds" |
| 10 | On-Site Hazardous Waste Landfill (Closed) |
| 22 | Pond WC-1 (WC-West) and Associated Piping |
| 23 | Pond WC-2 (WC-East) and Associate Piping |
| 32 | Ground Water Remediation Unit |
| 35 | Truck Emptying/Dumping Site |
| 38 | Former Satellite Accumulation Point, AP Laboratory |
| 39 | Satellite Accumulation Point-AP Maintenance Shop |
| 54 | AP Plant Area Change House/ Laboratory Septic Tank |
| 58 | AP Plant Area New Building D-1 Washdown |
| 60 | Acid Drain System |
| 64 | Koch Materials Company Site |

LOU = Site identified in Letter of Understanding dated August 15, 1994

See Plate A for additional LOU information.

**LEGEND**

- Tronox Site Outline
- Acid Drain System (LOU #60)
- Storm Drain System (LOU #59)

LOU Boundaries

- LOU Area
- LOU Area (Less Well Defined)

Phase B Workplan Areas

- AREA I
- AREA II
- AREA III
- AREA IV

| REVISIONS | | | |
|---|---|---|---|
| NO | DESCRIPTION | DATE | BY |

DESIGNED BY: MF
DRAWN BY: TM
CHECKED BY: X
APPROVED BY: X


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**PHASE B AREA I LOUs**
AREA I WORKPLAN
PHASE B SOURCE AREA INVESTIGATION
TRONOX FACILITY
HENDERSON, NEVADA

SCALE: AS SHOWN
DATE: 4/2/2008
PROJECT NUMBER: 04020-023-430

FIGURE NUMBER: 3

SHEET NUMBER: X

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## Area IV LOUs

| LOU Number | Name of LOU |
|---|---|
| 4 | Hardesty Chemical Company Site (prior to J. B. Kelley Operations) |
| 25 | Process Hardware Storage Area |
| 26 | Trash Storage Area |
| 27 | PCB Storage Area |
| 28 | Hazardous Waste Storage Area |
| 41 | Unit 1 Tenant Stains |
| 42 | Unit 2 Salt Redler |
| 59 | Storm Sewer System |
| 60 | Acid Drain System |
| 62 | State Industries, Inc. Site, Including Impoundments and Catch Basin |
| 63 | J. B. Kelley, Inc. Trucking Site |
| 65 | Nevada Precast Concrete Products, Green Ventures International, Buckles Construction Company and Ebony Construction Sites |

LOU = Site identified in Letter of Understanding dated August 15, 1994.

See Plate A for additional LOU information.

## LEGEND

- Tronox Facility Boundary
- LOU Boundary in Area IV
- LOU Boundary in other areas
- LOU #59 Storm Drain System with manholes and sumps with flow direction in Area IV
- LOU #59 Storm Drain System with manholes and sumps with flow direction in other areas
- LOU #60 Acid Drain System with manholes and sumps with flow direction in Area IV
- LOU #60 Acid Drain System with manholes and sumps with flow direction in other areas
- Parcel Boundary

Phase B Workplan Areas

- Area I
- Area II
- Area III
- Area IV

Land Ownership

- Timet
- Olin (Formerly Pioneer)
- Chemstar
- BMI

| REVISIONS | | | |
|---|---|---|---|
| NO | DESCRIPTION | DATE | BY |

DESIGNED BY: M. Flack
DRAWN BY: M. Scop
CHECKED BY: C. Schnell
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**PHASE B AREA IV LOUs**
AREA IV WORKPLAN
PHASE B SOURCE AREA INVESTIGATION
TRONOX FACILITY
HENDERSON, NEVADA

SCALE: AS SHOWN
DATE: 5/14/2008
PROJECT NUMBER: 04020-023-430

FIGURE NUMBER: 3
SHEET NUMBER: X