

TOXCO INC.

Toxco Inc.

- Established 1984 – Nevada Corporation
- Headquarters – Anaheim CA
- Privately owned
- DOE Foreign Owned and Influence (FOCI) approval – DOE Security Clearance for personnel
- www.toxco.com

Toxco Locations:

- Toxco Battery Recycle Operations
 - Anaheim CA (Part B Permit)
 - Newark OH
- Large scale battery recycling facilities specializing in lead acid, cadmium, nickel based, silver zinc, and many other types of batteries and precious metals

Toxco Locations:

- LithChem International – Baltimore OH
 - Facility uses recycled lithium material to provide several grades of lithium hydroxide for the battery and international grease industries
- Lythdyne Laboratories – Philadelphia PA
 - R/D arm of Toxco which produces custom lithium compounds and developmental lithium polymer cells for the rechargeable lithium battery industry

Toxco Locations:

- Toxco Waste Management – Trail BC
 - Located in Trail British Columbia
 - Facility is unique in the world in that it recovers lithium and other valuable products and materials from all types and sizes of lithium and alkaline batteries

Toxco Material Management Center

- Acquired by on July 1, 2004
- Located in Oak Ridge TN.
- TN Radioactive Materials Processing License

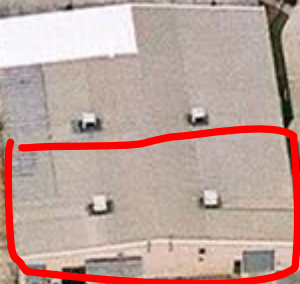
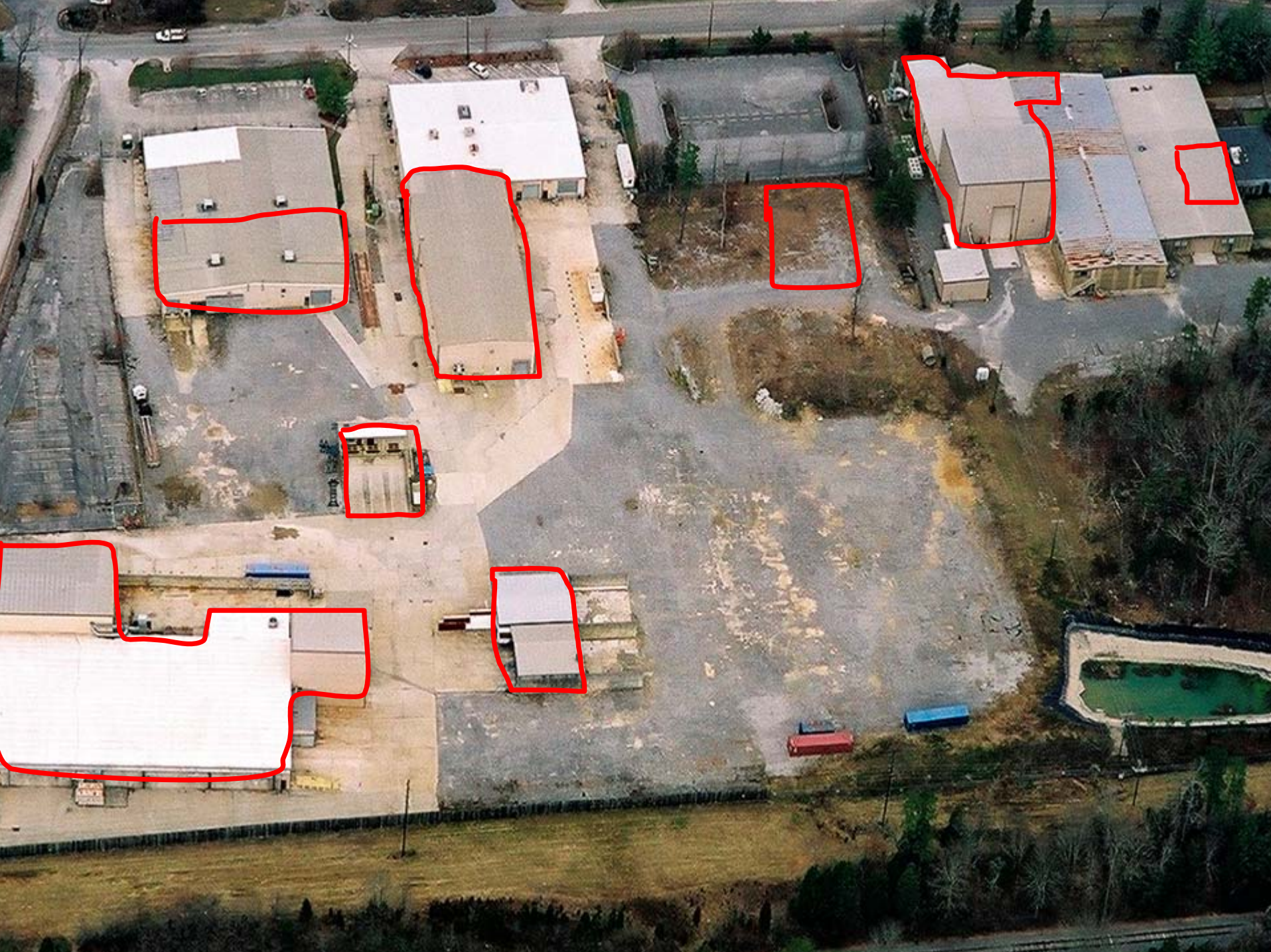
Toxco Material Management Center

- 16 acres – fenced, and secure facility
 - 115,000 ft² building space
 - NRC mandated Increased Controls
 - Motion Sensors
 - Video Cameras
 - Security Response briefed on building access



Toxco Material Management Center

- ~67,000 ft of “bonded space” for radioactive operations



Toxco Material Management Center

- EPA TSCA Identification
- Solid Waste Landfill Permit for disposal at 2 sites in TN
- Air Permits - Various
- Security Clearances for personnel
- Owns CSX rail spur to site

Radioactive Materials License

- Amended in Entirety in 2006
- Expires on May 31, 2016
- Basic Limits
 - 200 Curies mixed activation and fission products
 - 100 Curies Tritium
 - 50 Curies Carbon
 - 10 Curies Source Material

TMMC Operations

- Radioactive Material Operations
 - See TMMC Waste Acceptance Criteria at Toxcommc.com under shipping form.
 - Material characterization for cost effective disposition or recycle
 - Waste Volume Minimization
 - S4 Program – (survey – sort – size – segregate)

TMMC Operations

- Radioactive Material Operations
 - Super Compaction
 - Capacity to compact over one hundred 55 gallon drums per day.

Typical drum weighing 200 pounds
and six inches thick



Drums awaiting compaction



TMMC Operations

- Radioactive Material Operations
 - Decontamination and Refurbishment of equipment for reuse
 - Storage and rental of contaminated equipment

Released Equipment



Released Equipment



Awaiting Decon



Awaiting Decon



Typical survey and minor decon area



Typical bonded storage area



TMMC Operations

- Radioactive Material Operations

Manufacture lead lined shielded containers including Tru-Shield® drums.

TRU-Shield ®



TMMC Operations

- Radioactive Material Operations
 - Material Disposition
 - Unrestricted Release
 - Provenance Recycle
 - EnergySolutions
 - Barnwell
 - US Ecology
 - Bulk Survey For Release

TMMC Operations

- Radioactive Material Operations
 - What is Bulk Survey For Release
 - Two industrial disposal landfills with 150 miles of our facility
 - 9,000,000 pounds per month limit
 - Isotope specific concentration limits
 - Typically 500 pCi/g for MAFP
 - Conveyance and package dose rate limits
 - Typically < 40 urem/hr on contact

TMMC Operations

- Radioactive Material Operations
 - Material Disposition
 - Bulk Survey For Release
 - Based on resident farmer < 1mr/year, 30 years to 1000 years after closure
 - Short Lived isotopes controlled to limit contamination spread and airborne potential at the landfill

TMMC Operations

■ Facility Operations

- Rental of Buildings and Infrastructure for long term or on a job by job basis
 - Over 67,000 ft² Bonded space for storage
 - Water Treatment building with over 100,000 gallon storage capacity
 - HEPA equipped spaces for equipment refurbishment

TMMC Operations

■ Facility Operations

Use of TMMC infrastructure

- 45,000 lb capacity fork truck
- 65 ton indoor crane
- 5 full size excavators, cranes and/or bulldozers
- 40 different fork trucks, mobile cranes, genie booms, bobcats
- Truck Docks

Toxco Waste Philosophy

- Outstanding Service and Low Cost To The Customer
 - Achieved By
 - Proper characterization of the waste
 - Risk reduction
 - Recovery and recycle where ever possible
 - Unrestricted Release – Provenance reuse and recycle
 - Recycle of materials provides revenue to reduce customers project cost
 - Disposal in the appropriate facility
 - BSFR approved landfills
 - EnergySolutions
 - Barnwell
 - US Ecology