

**SOLID WASTE MANAGEMENT UNITS (SWMU's)**

**Inco Alloys International, Inc.**

**Huntington, West Virginia**

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**Huntington, WV**

**SWMU No.:** 001

**UNIT NAME:** Container Storage Area

**UNIT DESCRIPTION:** This storage area is used for storage of drums of hazardous wastes as identified in 40 CFR Part 261. The unit is located on the Northeast corner of the facility. The storage area occupies a rectangular area of approximately 135 feet by 43.5 feet or 5,873 square feet. All hazardous wastes stored within this facility are to be containerized in containers approved by DOT. Containers containing liquid wastes are stored within the metal pans. The storage Cell No. 1 and Cell No. 2 have metal pans as secondary containment to contain any leak and/or rupture developed during storage of a drum.

**DATE:** Nov. 17, 1980

**DISPOSITION:** Scheduled for closure by January 2005

**DETAILS:** The following are hazardous wastes stored in the Container Area:

RFA, RFI  
CORRESPONDENCE

- 1. Xylene Salt bath in Cell No. 4
- 2. Toxic Solid in Cell No. 3
- 3. Ignitable Hazardous waste in Cell No. 2
- 4. Non-Ignitable hazardous waste in Cell No. 1

**RELEASE CONTROLS:** Two metal pans for liquid waste storage drums.

**HISTORY OF RELEASES:** Unknown

**REFERENCES:** Part B application and Visual Site Inspection.

**ACTION RECOMMENDED:** At a minimum, one (1) round of soil sampling should be performed in order to determine the status of the subsurface soil in the vicinity of this unit.

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**SWMU No.:** 002

**UNIT NAME:** Baghouse Dust Storage Area (Closed on March 27, 1987)

**UNIT DESCRIPTION:** This storage area was used for the storage of boxes of baghouse dust which was hazardous waste by characteristic. The unit was located on the North side of the Stores Department in the "Nickel Storage Pad" area. The storage area was a concrete pad roofed over with 104 feet by 86 feet dimensions (8,944 square feet). All hazardous waste stored within this unit were containerized in approved DOT shipping containers. This unit was closed in March, 1987; however, the State of West Virginia, Department of Natural Resources, Waste Management Section has never received a final closure certification from the permittee.

**DATE OF START-UP:** Unknown

**DATE OF CLOSURE:** March 27, 1987

**WASTE MANAGED:**

1. Melting Department Baghouse Dust
2. B-40 Baghouse Dust

**RELEASE CONTROLS:** Unknown

**HISTORY OF RELEASES:** Unknown

**REFERENCES:** Closure plan and unit process description included in Part B application.

**ACTION RECOMMENDED:** No further action is recommended since the storage area had a concrete floor and was roofed during its useful life.

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**SWMU No.:** 003

**UNIT NAME:** Nitric - HF Storage Tank (Closed January, 1992)

**UNIT DESCRIPTION:** This unit was an 8000 gallon storage tank located in Acid Reclaim Pretreatment, metals recovery, area. Cold Draw spent nitric - HF acids, Corrosive hazardous waste, was received and stored in this tank. The tank was an inground Fiber glass storage tank with concrete secondary containment. The tank was closed and removed from the ground in January, 1992. The final closure certification has not been submitted to this office.

**DATE OF START-UP:** About 1957

**DATE OF CLOSURE:** January, 1992

**WASTE MANAGED:** Nitric Spent Acid, Corrosive hazardous waste

**RELEASE CONTROLS:** Concrete secondary containment.

**HISTORY OF RELEASES:** The concrete secondary containment for the this unit was inspected visually during VSI. There were signs of releases and concrete was severely contaminated. A large hole was notice on the body of the tank.

**REFERENCES:** Drawing number D-26320 submitted on Nov. 07, 1992 and VSI visit to the facility.

**ACTION RECOMMENDED:** At a minimum one (1) round of soil sampling should be performed in order to determine the status of the subsurface soil in the vicinity of this unit. Also, if warranted, a groundwater monitoring program should be implemented.

**SOLID WASTE MANAGEMENT UNITS (SWMU's)**  
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**SWMU No.:** 004

**UNIT NAME:** Waste Holding Tank

**UNIT DESCRIPTION:** This is a 8000 gallons hazardous waste storage tank located in Acid Reclaim Pretreatment, metals recovery, area. The hazardous waste received from off-site facility, INCO's Burnaugh plant, are stored in this tank prior to equalization. This unit is not a permitted RCRA hazardous waste management unit.

**DATE OF START-UP:** Unknown

**DATE OF CLOSURE:** Still in operation

**WASTE MANAGED:** 1. Alkaline Cleaners  
2. Kolene Rinse, characteristic hazardous waste.

**RELEASE CONTROLS:** Unknown

**HISTORY OF RELEASES:** Unknown

**REFERENCES:** Drawing number D-26320 submitted on Nov. 07, 1992.

**ACTION RECOMMENDED:** At a minimum, one (1) round of soil sampling should be performed in order to determine the status of the subsurface soil in the vicinity of this unit.

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**SWMU No.:** 005

**UNIT NAME:** Spent Acid Storage Tank System

**UNIT DESCRIPTION:** This unit consisted of three below ground acid brick - lined concrete storage tanks with a total capacity of approximately 71,000 gallons located in Acid Reclaim Pretreatment area. The East tank, known as Monel Storage Tank, has 55,000 gallons, the Southwest tank has 8,000 gallons and Northwest tank has 8,000 gallons capacity. At the present, only the Monel Storage Tank is in operation. The other two tanks, Southwest and Northwest storage tanks were closed in 1982 and the closure was certified January 17, 1983.

**DATE OF START-UP:** 1948

**DATE OF CLOSURE:** Two 8000 gallon tanks were certified closed on January 17, 1983. One tank, Monel Storage tank, is still in operation.

**WASTE MANAGED:** The following is list of waste stored in the tanks:

1. Spent Pickling Acids.
2. Sludge from the pickling rinse water.
3. Copper Nickel spent plating solutions.
4. Dust from Air Pollution control units.
5. Spent Pickling solution from Off-site (Burnaugh plant).

**RELEASE CONTROLS:** Unknown

**HISTORY OF RELEASES:** Unknown

**REFERENCES:** Part B application and closure plan submitted to EPA region III office.

**ACTION RECOMMENDED:** At a minimum, one (1) round of soil sampling should be performed in order to determine the status of the subsurface soil in the vicinity of this unit. Also, if warranted, a groundwater monitoring program should be implemented.

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**SWMU No.:** 006

**UNIT NAME:** Neutralization Tank

**UNIT DESCRIPTION:** This treatment tank is located in the Acid Reclaim Pretreatment area, metals recovery, has a capacity of 5,000 gallons. The hazardous waste stored in Monel tank is pumped to this tank for Neutralization process.

**DATE OF START-UP:** Unknown

**DATE OF CLOSURE:** Scheduled for closure by January, 2005

**WASTE MANAGED:** The following hazardous waste are neutralized in this unit:

1. Spent Pickling Acids.
2. Sludge from the pickling rinse water.
3. Copper Nickel spent plating solutions.
4. Dust from Air Pollution control units.
5. Spent Pickling solution from Off-site (Burnaugh plant).

**RELEASE CONTROLS:** Unknown

**HISTORY OF RELEASES:** During VSI, evidence of overflow was noticed on the outside wall and floor in the immediate area of the tank.

**REFERENCES:** Visual Site Inspection (VSI) and drawing number D-26320

**ACTION RECOMMENDED:** At a minimum, one (1) round of soil sampling should be performed in order to determine the status of the subsurface soil in the vicinity of this unit. Also, if warranted, a groundwater monitoring program should be implemented.

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**SWMU No.:** 007

**UNIT NAME:** Old West Tailing Pond (Closed in 1971)

**UNIT DESCRIPTION:** This unit was a surface impoundment used for storage of hazardous wastes for nearly twelve (12) years. The wastes stored were liquid. The impoundment was closed in place. There is no record to prove that the sludge was stabilized when the covering cap was placed on the lagoon. The size of this unit is unknown. It was located in the northwest portion of the facility.

**DATE OF START-UP:** 1958

**DATE OF CLOSURE:** 1971

**WASTE MANAGED:** The following is a list of hazardous wastes stored in this unit:

1. Neutralized spent acids, D007, D008, liquid.
2. Alkaline permanganate solution, D002, D007, liquid.
3. Oxalate solution, D007, liquid.
4. Borax coating solution, D007, liquid.

**RELEASE CONTROLS:** Unknown

**HISTORY OF RELEASES:** Unknown

**REFERENCES:** West Virginia Hazardous Waste Survey conducted in 1982.

**ACTION RECOMMENDED:** At a minimum, one (1) round of soil sampling should be performed in order to determine the status of the subsurface soil in the vicinity of this unit. Also, if warranted, a groundwater monitoring program should be implemented.

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**SWMU No.:** 008

**UNIT NAME:** Old Lagoon No. 1 (Closed in 1958)

**UNIT DESCRIPTION:** This unit was a surface impoundment used for storage, treatment, and disposal of hazardous wastes for nearly ten years. The wastes stored were both liquid and solid. The treatment applied to the wastes was of Chemical/Biological type. The impoundment was closed in place. The sludge within the impoundment was not stabilized when the covering cap, consisting of general fill materials, was placed on lagoon. The impoundment occupied an estimated area of 0.24 acres. The unit was located in the Northeast portion of the facility. The lagoon construction did not include a liner of any type. Presently, the Equalization tank known as Liquid Waste Pretreatment Tank is erected at this location.

**DATE OF START-UP:** 1949

**DATE OF CLOSURE:** 1958

**WASTE MANAGED:** The following is a list of hazardous wastes stored in the unit:

1. Liquid Spent Acid characterized as D002, D007, and D008.
2. Liquid Alkaline Cleaning Solutions characterized as D002.
3. Liquid Permanganate Solution characterized as D002 and D007.
4. Solid Lead Compounds characterized as D008.
5. Solid Chromium Compounds characterized as D007.

**RELEASE CONTROLS:** Unknown

**HISTORY OF RELEASES:** Unknown

**REFERENCES:** West Virginia Hazardous waste Survey Report submitted in 1982.

**ACTION RECOMMENDED:** At a minimum, one (1) round of soil sampling should be performed in order to determine the status of the subsurface soil in the vicinity of this unit. Also, if warranted, a groundwater monitoring program should be implemented.

**SOLID WASTE MANAGEMENT UNITS (SWMU's)**  
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**SWMU No.:** 009

**UNIT NAME:** Old Lagoon No. 2 (Closed in 1980)

**UNIT DESCRIPTION:** This impoundment was used for storage, treatment, and disposal of hazardous wastes for ten (10) years. This unit occupied an estimated area of 2400 square feet. The sludge within the impoundment passed the EP Toxicity test, per a facility representative. However, there is no documentation of the beforementioned test available. During the active life of this unit, non-soluable waste oil was skimmed off and sold to off-site buyers for recycling.

**DATE OF START-UP:** 1970

**DATE OF CLOSURE:** 1980

**WASTE MANAGED:** The following is a list of hazardous wastes stored in the Lagoon No. 2:

1. Liquid Spent Acid characterized as D002, D007, and D008.
2. Liquid Alkaline Cleaning Solutions characterized as D002.
3. Liquid Permanganate Solution characterized as D002 and D007.
4. Oxalate Solution characterized as D002 and D007.
5. Borax Coating Solution characterized as D007.

**RELEASE CONTROLS:** Unknown

**HISTORY OF RELEASES:** Unknown

**REFERENCES:** West Virginia Hazardous Waste Survey Report submitted in 1982.

**ACTION RECOMMENDED:** At a minimum, one (1) round of soil sampling should be performed in order to determine the status of the subsurface soil in the vicinity of this unit. Also, if warranted, a groundwater monitoring program should be implemented.

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**SWMU No.:** 010

**UNIT NAME:** Old Lagoon No.3

**UNIT DESCRIPTION:** This unit was a surface impoundment used for storage of wet scrubber wastewater. The Acid Reclaim Pretreatment unit got on fire in 1978 which caused the process of sludge dewatering and sludge roasting to slow down. Then, the unit was constructed to hold wet sludge and water from wet scrubber unit. The unit was about 700 feet square in area and about three (3) feet deep.

**DATE OF START-UP:** April, 1978

**DATE OF CLOSURE:** August, 1978

**WASTE MANAGED:** Wet hazardous waste sludge and scrubber water.

**RELEASE CONTROLS:** Unknown

**HISTORY OF RELEASES:** Unknown

**REFERENCES:** West Virginia Hazardous Waste Survey Report submitted in 1982.

**ACTION RECOMMENDED:** At a minimum, one (1) round of soil sampling should be performed in order to determine the status of the subsurface soil in the vicinity of this unit. Also, if warranted, a groundwater monitoring program should be implemented.

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**SWMU No.:** 011

**UNIT NAME:** Landfill (Closed in 1964)

**UNIT DESCRIPTION:** This unit was a landfill used for disposal of hazardous wastes. Solvents and Cyanide Salt (F wastes) and characteristic wastes (D wastes) were disposed of in this unit for forty-four (44) years. The landfill was closed in 1964. A layer of asphalt and/or concrete is placed on the capped landfill. The wastes were left in place at the time of closure.

**DATE OF START-UP:** 1920

**DATE OF CLOSURE:** 1964

**WASTE MANAGED:** The following waste streams were disposed of in this unit;

- 1) Cyanide Bearing Heat-treating Salts, F011, Solid.
- 2) Kolene Salt Bath, Oxalate and Permanganate Sludges, D007, Solid.
- 3) Kolene Salt Bath, Oxalate and Permanganate Sludges, D007, Solid.
- 4) Solvents F001, F002, F003, F005 and D001 Liquids.

**RELEASE CONTROLS:** Unknown

**HISTORY OF RELEASES:** Unknown

**REFERENCES:** West Virginia Hazardous Waste Survey Report submitted in 1982.

**ACTION RECOMMENDED:** At a minimum, one (1) round of soil sampling should be performed in order to determine the status of the subsurface soil in the vicinity of this unit. Also, if warranted, a groundwater monitoring program should be implemented.

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**SWMU No.:** 012

**UNIT NAME:** Waste Pile (Closed in 1978)

**UNIT DESCRIPTION:** An area adjacent to Old Lagoon #3 was used for storage of Tailing Sludge and other unspecified non-hazardous wastes.

**DATE OF START-UP:** 1974

**DATE OF CLOSURE:** 1978

**WASTE MANAGED:** Unspecified Non-Hazardous solid waste and tailing sludge.

**RELEASE CONTROLS:** Unknown

**HISTORY OF RELEASES:** Unknown

**REFERENCES:** West Virginia Hazardous Waste Survey Report submitted in 1982.

**ACTION RECOMMENDED:** At a minimum, one (1) round of soil sampling should be performed in order to determine the status of the subsurface soil in the vicinity of this unit. Also, if warranted, a groundwater monitoring program should be implemented.

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**SWMU No.:** 013

**UNIT NAME:** Sulfuric Acid Spill Area

**UNIT DESCRIPTION:** Area of Sulfuric Acid spill in July, 1990. The spill capacity was about 300-500 gallons of pure sulfuric acid.

**DATE OF START-UP:** July, 1990

**DATE OF CLOSURE:** July, 1990

**WASTE MANAGED:** Spilled Sulfuric Acid

**RELEASE CONTROLS:** None

**HISTORY OF RELEASES:** This spill was never reported to OWM.

**REFERENCES:** Emergency Response Spill report and facilities representatives during VSI.

**ACTION RECOMMENDED:** At a minimum, one (1) round of soil sampling should be performed in order to determine the status of the subsurface soil in the vicinity of this unit.

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**SWMU No.:** 014

**UNIT NAME:** Multihearth Roasting Furnace Area

**UNIT DESCRIPTION:** The area around exit door of Multihearth Roasting Furnace was contaminated with spilled characteristic hazardous waste. A sampling of soil in the area was conducted in March, 1992. Low level contamination was found.

**DATE OF START-UP:** Unknown

**DATE OF CLOSURE:** March, 1992

**WASTE MANAGED:** Contaminated soil by characteristic (chromium) hazardous waste.

**RELEASE CONTROLS:** Unknown

**HISTORY OF RELEASES:** Unknown

**REFERENCES:** Compliance Evaluation Inspection conducted in November, 1991.

**ACTION RECOMMENDED:** Based on the result of the investigation of March, 1992, no further action is recommended.

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**SWMU No.:** 015

**UNIT NAME:** Barium Chloride Area (Closed)

**UNIT DESCRIPTION:** Barium Chloride Salt furnaces. This salt was used in heating tanks in the area of this unit. The hazardous waste generated was disposed of in the landfill which was closed in 1964. The method of disposal after 1964 is unknown.

**DATE OF START-UP:** Unknown

**DATE OF CLOSURE:** 1985

**WASTE MANAGED:** Barium Chloride Salt, characteristic hazardous waste.

**RELEASE CONTROLS:** Unknown

**HISTORY OF RELEASES:** Unknown

**REFERENCES:** VSI visit conducted in January, 1992.

**ACTION RECOMMENDED:** This unit must be closed properly. The existing furnaces and all hazardous wastes must be removed and extinct of contamination release, if any, to ground and groundwater. This should be determined by soil and groundwater sampling and analysis.

**SOLID WASTE MANAGEMENT UNITS (SWMU's)**  
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**SWMU No.:** 016

**UNIT NAME:** Existing West Tailing Pond

**UNIT DESCRIPTION:** This unit is located in the western corner of the facility. It is permitted by the Office of Water Resources, Industrial Waste Branch. An application for permit was submitted in 1974 and again in 1985.

**DATE OF START-UP:** Prior to 1974

**DATE OF CLOSURE:** Presently in operation.

**WASTE MANAGED:** Sludge from Wastewater treatment plant is stored in this for dewatering prior to disposal in the Huntington Landfill. Based on EP toxicity sampling and analysis, this waste was characterized as Non-Hazardous.

**RELEASE CONTROLS:** Unknown. There are four (4) monitoring wells as required by WV OWR, NPDES Permit.

**HISTORY OF RELEASES:** Unknown. However, sampling of stored sludge in March, 1992 revealed that the sludge pile was mostly hazardous waste.

**REFERENCES:** Correspondence from facility to the OWM in regard to sampling of stored sludge in the west tailing pond in Feb., 1992.

**ACTION RECOMMENDED:** At a minimum, one (1) round of soil sampling should be performed in order to determine the status of the subsurface soil in this unit. Also, if warranted, a groundwater monitoring program investigating hazardous wastes releases to the groundwater should be implemented.

## XI. REFERENCES

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13. West Virginia Division of Water Resources, **Industrial Waste Section issued permit to Inco Alloys International, Inc. to operate an industrial tailing pond (IWL-6312-85)**, October 9, 1985.
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20. Office of Radiological Weather Report for Huntington Area, 1991.
21. W. L. Healy, Inco Alloys International, Inc., letter to Office of Emergency Response, Re.: **Sulfuric Acid Spill Report**, July, 1991.
22. **West Virginia Hazardous Waste Survey**, Nov., 1982.
23. W. L. Healy, Inco Alloys International, Inc., letter to Gil Sattler, West Virginia Office of Waste Management, Re.: **Information on USTs**, September 5, 1991.
24. West Virginia Division of Water Resources, Industrial Waste Section reissued **permit to Inco Alloys International, Inc. to operate an industrial tailing pond (IWL-6325-91)**, September 30, 1991.
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