

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
ALRECO Metals - Removal Polrep
Final Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: POLREP #15
Final
ALRECO Metals
C52N
Benton Harbor, MI
Latitude: 42.1389684 Longitude: -86.4362357

To:
From: Elizabeth Nightingale, OSC
Date: 5/21/2015
Reporting Period: 3/19/15- 5/21/2015

1. Introduction

1.1 Background

| | |
|--------------------------------------|--|
| Site Number: C52N | Contract Number: EP-S5-09-05 |
| D.O. Number: | Action Memo Date: 8/8/2014 |
| Response Authority: CERCLA | Response Type: Time-Critical |
| Response Lead: EPA | Incident Category: Removal Action |
| NPL Status: Non NPL | Operable Unit: |
| Mobilization Date: 11/10/2014 | Start Date: 11/10/2014 |
| Demob Date: 5/8/2015 | Completion Date: 5/21/2015 |
| CERCLIS ID: MIN000504648 | RCRIS ID: |
| ERNS No.: | State Notification: Yes |
| FPN#: | Reimbursable Account #: |

1.1.1 Incident Category

Time Critical Removal Action

1.1.2 Site Description

See initial POLREP.

1.1.2.1 Location

See initial POLREP.

1.1.2.2 Description of Threat

See initial POLREP.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

See initial POLREP.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

2.1.2 Response Actions to Date

Between 3/19/15 - 5/5/15 no onsite work occurred. Onsite work resumed during the period from 5/6/15- 5/8/15. During this time, the crew completed remaining decontamination of foundations to remove aluminum production waste. Over the course of the removal action, 5,462 tons of waste from aluminum dross piles, 51 tons of baghouse dust waste, 178 tons of non hazardous debris contaminated with incidental aluminum production waste, and numerous containers have been shipped for disposal. Waste shipped off site is cataloged in the waste metrics table below.

EPA has now completed all of the work that was planned in this time critical removal action.

Air Monitoring

During the foundation decontamination work, EPA continuously monitored data from particulate monitors for compliance with established standards. One - two personal data ram (PDR) particulate air monitor(s) were deployed daily in the work zone. The particulate action level within the work zone was established as a time weighted average (TWA) of 2.0 mg/m³ for the respirable fraction of total particulates. This is a site specific action level based on a calculation of airborne dust concentration. On May 6, the particulate TWA, using one PDR, was 0.059 mg/m³. On May 7, the crew used two PDRs to

monitor the areas in which the ER workers were consolidating and removing the waste. The TWAs for the two PDRs were .083 mg/m3 and 0.114 mg/m3.

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

- General notice letters were issued to current and former owners of the property. Investigation is ongoing.

- EPA Civil Investigator support contractors were onsite collecting site related documents during the weeks of 1/26/15 and 2/10/15.

2.1.4 Progress Metrics

Green Metrics: Fuel, Water and Electricity use

| Metric | Amount | Units |
|---|--------|--------------------|
| Diesel Fuel Used | 2629 | gallons |
| Unleaded Fuel Used | 2170 | gallons |
| Alternative/E-85 Fuel Used | 92.8 | gallons (kerosene) |
| Water Used | 100 | gallons |
| Electricity from Coal | 14302 | kwh |
| Electricity from Nuclear | 14291 | kwh |
| Electricity from Gas | 202 | kwh |
| Electricity from Oil | 15 | kwh |
| Electricity from Hydroelectric | 96 | kwh |
| Electricity from Solar | 1 | kwh |
| Electricity from Wind | 560 | kwh |
| Electricity from Biofuel | 16 | kwh |
| Electricity from Biomass | 9 | kwh |
| Electricity from Solid Waste Incineration | 1 | kwh |
| Electricity from Wood | 12 | kwh |

Green metrics: Recycling and Reuse

| Waste Stream | Medium | Quantity | Quantity Units | Quantity Estimated Or Final? | Recycling |
|---|--------|----------|----------------|------------------------------|------------------|
| Solid waste recycled/ Cardboard | Solid | 1144 | pounds | final | Padnos |
| Solid waste recycled/ demolished clean wood pallets | Solid | 230 | yd3 | final | Spurt Industries |
| Solid waste recycled/ mixed metal | Solid | 44,060 | pounds | final | Padnos |
| Solid waste recycled/ paper | Solid | 5 | pounds | final | |
| Solid waste recycled/ plastic | Solid | 5 | pounds | final | |

| Waste Stream | Medium | Quantity | Quantity Units | Quantity Estimated Or Final? | Reuse |
|---|--------|----------|----------------|------------------------------|----------------------------|
| Solid waste reused/Fly ash (cadmium treatment additive) | Solid | 106 | tons | final | Treatment of Pile 3 onsite |

Disposal:

| Waste Stream | Medium | Quantity | Quantity Units | Quantity Estimated Or Final? | Manifest # | Disposal |
|-------------------------|--------|----------|----------------|------------------------------|--------------|----------|
| Hydrochloric Acid | Liquid | 55 | Gallons | Final | 014401301JJK | Chemtron |
| Bleach | Liquid | 110 | Gallons | Final | 014401301JJK | Chemtron |
| Magnesium | Solid | 605 | Gallons | Final | 014401301JJK | Chemtron |
| Aerosols (Spary Paints) | Gas | 5 | Gallons | Final | 014401301JJK | Chemtron |
| Paint | Liquid | 1 | yd^3 | Final | 014401301JJK | Chemtron |
| Sulfuric Acid | Liquid | 45 | Gallons | Final | 014401301JJK | Chemtron |
| Automotive Fluids | Liquid | 220 | Gallons | Final | 014401301JJK | Chemtron |
| Florescent Light Bulbs | Solid | 20 | Pounds | Final | 014401301JJK | Chemtron |

Disposal:

| Waste Stream | Medium | Quantity (Tons) | Quantity Estimated Or Final? | Manifest # | Disposal |
|--------------|--------|-----------------|------------------------------|------------|----------|
|--------------|--------|-----------------|------------------------------|------------|----------|

| | | | | | |
|-----------------------------------|-------|-------|-------|-----------|--------------------------------|
| RCRA empty containers & debris | Solid | 1 | final | A5-156-01 | Republic Forest Lawn |
| Aluminum Production Waste (Piles) | Solid | 32.46 | final | 2954167 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 33.16 | final | 2954168 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 29.74 | final | 2954169 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 29.88 | final | 2954170 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 30.11 | final | 2954171 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.31 | final | 2954172 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 24.89 | final | 2954173 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 23.38 | final | 2954174 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 23.89 | final | 2954175 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 26.33 | final | 2954176 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 24.6 | final | 2954177 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.52 | final | 2954178 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 27.05 | final | 2954179 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 24.84 | final | 2954180 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 24.7 | final | 2954181 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 23.72 | final | 2954182 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25 | final | 2954183 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 19.98 | final | 2954184 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 23.84 | final | 2954185 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 28.79 | final | 2954186 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 23.8 | final | 2954187 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 23.48 | final | 2954188 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.44 | final | 2954189 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 26.45 | final | 2954190 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 23.5 | final | 2954191 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 21.83 | final | 2954192 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 24.96 | final | 2954193 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.48 | final | 2954194 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 27.53 | final | 2954195 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 26.24 | final | 2954196 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 24.21 | final | 2954197 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.47 | final | 2954198 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 26.13 | final | 2954199 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 29.6 | final | 2954200 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 26.59 | final | 2954201 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.62 | final | 2954202 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 27.3 | final | 2954203 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 23.2 | final | 2954204 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 29.77 | final | 2954206 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 23.35 | final | 2954205 | WM-Oak Ridge RDF (AL Monofill) |

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| Aluminum Production Waste (Piles) | Solid | 25.59 | final | 2954207 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.45 | final | 2954208 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 22.9 | final | 2954209 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 28.41 | final | 2954210 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 33.83 | final | 2954211 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 24.72 | final | 2954212 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 22.78 | final | 2954213 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 27.51 | final | 2954214 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 28.11 | final | 2954215 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 26.8 | final | 2954216 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 23.61 | final | 2954217 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 24.76 | final | 2954218 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 27.46 | final | 2954219 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 28.88 | final | 2954220 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.14 | final | 2954221 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Baghouse Dust) | Solid | 8.03 | final | 2954118 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 23.63 | final | 2954222 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 27.36 | final | 2954223 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 26.18 | final | 2954224 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.93 | final | 2954225 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.05 | final | 2954226 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 29.56 | final | 2954227 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Baghouse Dust) | Solid | 7.56 | final | 2954119 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.9 | final | 2954228 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 26.84 | final | 2954229 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 23.38 | final | 2954230 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 24.15 | final | 2954231 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 22.82 | final | 2954232 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 26.93 | final | 2954233 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.95 | final | 2954234 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.14 | final | 2954235 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 22.76 | final | 2954236 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 26.8 | final | 2954237 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 27.75 | final | 2954238 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 27.91 | final | 2954239 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 26.27 | final | 2954240 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Baghouse Dust) | Solid | 7.86 | final | 2954121 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 23.24 | final | 2954241 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 26.41 | final | 2954242 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 26.84 | final | 2954243 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 30.34 | final | 2954244 | WM-Oak Ridge RDF (AL Monofill) |

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| Aluminum Production Waste (Piles) | Solid | 23.51 | final | 2954245 | Monofill) WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 26.83 | final | 2954246 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Baghouse Dust) | Solid | 8.79 | final | 2954122 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 23.05 | final | 2954247 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 26.56 | final | 2954248 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 26.86 | final | 2954249 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 24.78 | final | 2954250 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 28.08 | final | 2954251 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 23.29 | final | 2954252 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.12 | final | 2954253 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 26.53 | final | 2954254 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 26.25 | final | 2954255 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 24.61 | final | 2954256 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 27.5 | final | 2954257 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 32.07 | final | 2954258 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Baghouse Dust) | Solid | 14.09 | final | 2954123 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 22.88 | final | 2954260 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 27.08 | final | 2954261 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 24.13 | final | 2954262 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 28.95 | final | 2954263 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 18.34 | final | 2954264 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 24.41 | final | 2954265 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.81 | final | 2954266 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 28.61 | final | 2954267 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.98 | final | 2954268 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 23.78 | final | 2954269 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 27.68 | final | 2954270 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 23.5 | final | 2954271 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 27.47 | final | 2954272 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.3 | final | 2954273 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 26.73 | final | 2954274 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.06 | final | 2954275 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 29.21 | final | 2954276 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 23.34 | final | 2954277 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 28.58 | final | 2954278 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 27.07 | final | 2954279 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 23.91 | final | 2954280 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.47 | final | 2954281 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 23.64 | final | 2954282 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 28.34 | final | 2954283 | WM-Oak Ridge RDF (AL Monofill) |

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| Aluminum Production Waste (Piles) | Solid | 26.35 | final | 2954284 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 23.94 | final | 2954285 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 24.68 | final | 2954286 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 24.53 | final | 2954287 | WM-Oak Ridge RDF (AL Monofill) |
| Non hazardous debris with incidental aluminum production waste | Solid | 10.12 | final | T369107 | WM-Westside RDF |
| Aluminum Production Waste (Piles) | Solid | 28.25 | final | 2954288 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 26.76 | final | 2954289 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 22.21 | final | 2954290 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.73 | final | 2954291 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.56 | final | 2954292 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.49 | final | 2954293 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 28 | final | 2954294 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.66 | final | 2954296 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.71 | final | 2954297 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 28.01 | final | 2954298 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 27.05 | final | 2954295 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 26.35 | final | 2954299 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 23.6 | final | 2954300 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 24.27 | final | 2954301 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.63 | final | 2954302 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 29.22 | final | 2954303 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 23.87 | final | 2954304 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 27.74 | final | 2954305 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 24.8 | final | 2954306 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 23.87 | final | 2954307 | WM-Oak Ridge RDF (AL Monofill) |
| Non hazardous debris with incidental aluminum production waste | Solid | 10.62 | final | T369108 | WM-Westside RDF |
| Non hazardous debris with incidental aluminum production waste | Solid | 11.48 | final | T369109 | WM-Westside RDF |
| Aluminum Production Waste (Piles) | Solid | 27.03 | final | 2954308 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 27.16 | final | 2954309 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 22.98 | final | 2954310 | WM-Oak Ridge RDF (AL Monofill) |
| Non hazardous debris with incidental aluminum production waste | Solid | 12.28 | final | T369110 | WM-Westside RDF |
| Aluminum Production Waste (Piles) | Solid | 27.04 | final | 2954311 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 26.4 | final | 2954313 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 22.73 | final | 2954312 | WM-Oak Ridge RDF (AL Monofill) |
| Non hazardous debris with incidental aluminum production waste | Solid | 7.86 | final | T369111 | WM-Westside RDF |
| Aluminum Production Waste (Piles) | Solid | 26.66 | final | 2954314 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 27.28 | final | 2954315 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 24.3 | final | 2954316 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 27.45 | final | 2954317 | WM-Oak Ridge RDF (AL Monofill) |
| Non hazardous debris with incidental aluminum production waste | Solid | 8.46 | final | T369112 | WM-Westside RDF |
| Aluminum Production Waste (Piles) | Solid | 25.15 | final | 2954318 | WM-Oak Ridge RDF (AL |

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|---|-------|-------|-------|---------|---|
| Aluminum Production Waste (Piles) | Solid | 26.58 | final | 2954319 | Monofill) WM-Oak Ridge RDF (AL Monofill) |
| Non hazardous debris with incidental aluminum production waste | Solid | 9.65 | final | T369113 | WM-Westside RDF |
| Aluminum Production Waste (Piles) | Solid | 27.45 | final | 2954320 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 23.54 | final | 2954321 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 27.2 | final | 2954322 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 26.42 | final | 2954323 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 27.82 | final | 2954324 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 23.16 | final | 2954325 | WM-Oak Ridge RDF (AL Monofill) |
| Non hazardous debris with incidental aluminum production waste | Solid | 9.11 | final | T369114 | WM-Westside RDF |
| Aluminum Production Waste (Piles) | Solid | 25.74 | final | 2954326 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 27.05 | final | 2954327 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 24.65 | final | 2954328 | WM-Oak Ridge RDF (AL Monofill) |
| Non hazardous debris with incidental aluminum production waste | Solid | 13.24 | final | T369115 | WM-Westside RDF |
| Non hazardous debris with incidental aluminum production waste | Solid | 11.8 | final | T369117 | WM-Westside RDF |
| Non hazardous debris with incidental aluminum production waste | Solid | 16.51 | final | T369116 | WM-Westside RDF |
| RCRA empty containers & debris | Solid | 2.2 | final | 1302015 | Republic Forest Lawn |
| Non hazardous debris with incidental aluminum production waste | Solid | 9.26 | final | T369118 | WM-Westside RDF |
| Non hazardous debris with incidental aluminum production waste | Solid | 8.16 | final | T369119 | WM-Westside RDF |
| Non hazardous debris with incidental aluminum production waste | Solid | 12.23 | final | T369120 | WM-Westside RDF |
| Non hazardous debris with incidental aluminum production waste | Solid | 13.51 | final | T369121 | WM-Westside RDF |
| Non hazardous debris with incidental aluminum production waste and grease and oily solids | Solid | 4.66 | final | T369122 | WM-Westside RDF |
| Aluminum Production Waste (Baghouse Dust) | Solid | 4.43 | final | 2954124 | WM-Oak Ridge RDF (AL Monofill) |
| Non hazardous debris with incidental aluminum production waste | Solid | 6.55 | final | T369122 | WM-Westside RDF |
| Non hazardous debris with incidental aluminum production waste | Solid | 6.41 | final | T369122 | WM-Westside RDF |
| Aluminum Production Waste (Piles) | solid | 24.18 | final | 2954330 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | solid | 24.36 | final | 2954331 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | solid | 24.95 | final | 2954332 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | solid | 25.22 | final | 2954333 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | solid | 23.87 | final | 2954334 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | solid | 24.24 | final | 2954335 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | solid | 24.53 | final | 2954336 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | solid | 24.55 | final | 2954337 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | solid | 24.71 | final | 2954338 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | solid | 26.21 | final | 2954339 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | solid | 24.71 | final | 2954340 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | solid | 24.81 | final | 2954341 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | solid | 24.88 | final | 2954342 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | solid | 23.03 | final | 2954343 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | solid | 25.08 | final | 2954344 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | solid | 26.13 | final | 2954345 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | solid | 25.1 | final | 2954346 | WM-Oak Ridge RDF (AL |

| | | | | | |
|--|-------|-------|-------|---------|---|
| Aluminum Production Waste (Piles) | solid | 24.94 | final | 2954347 | Monofill) WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | solid | 25.09 | final | 2954348 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | solid | 25.13 | final | 2954349 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | solid | 23.32 | final | 2954350 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | solid | 24.91 | final | 2954351 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | solid | 24.56 | final | 2954352 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | solid | 22.7 | final | 2954353 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | solid | 25.15 | final | 2954354 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 28.97 | final | 2954355 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 26.27 | final | 2954356 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 24.44 | final | 2954357 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.18 | final | 2954358 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 23.61 | final | 2954359 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.74 | final | 2954360 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 29.72 | final | 2954361 | WM-Oak Ridge RDF (AL Monofill) |
| Non hazardous debris with incidental aluminum production waste | Solid | 5.18 | final | T369125 | WM-Westside RDF |
| Aluminum Production Waste (Piles) | Solid | 24.34 | final | 2954362 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 24.68 | final | 2954363 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 22.22 | final | 2954364 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 26.17 | final | 2954365 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 24.91 | final | 2954366 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 26.97 | final | 2954367 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.64 | final | 2954368 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 24.53 | final | 2954369 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 22.92 | final | 2954370 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.31 | final | 2954371 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 23.96 | final | 2954372 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.55 | final | 2954373 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.23 | final | 2954374 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 23.50 | final | 2954375 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 26.27 | final | 2954376 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.45 | final | 2954377 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 25.48 | final | 2954379 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 24.42 | final | 2954380 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 17.36 | final | 2954381 | WM-Oak Ridge RDF (AL Monofill) |
| Aluminum Production Waste (Piles) | Solid | 7.88 | final | 2954383 | WM-Oak Ridge RDF (AL Monofill) |
| Non hazardous debris with incidental aluminum production waste | Solid | 3.35 | final | T369127 | WM-Westside RDF |
| Aluminum Production Waste (Piles) | Solid | 17.09 | final | 2954384 | WM-Oak Ridge RDF (AL Monofill) |

Regional Metrics

This is an Integrated River Assessment. The Miles of river systems cleaned and/or restored n/a

| | | |
|--|--|-------------------------------------|
| numbers should overlap. | Cubic yards of contaminated sediments removed and/or capped | n/a |
| | Gallons of oil/water recovered | n/a |
| | Acres of soil/sediment cleaned up in floodplains and riverbanks | n/a |
| Stand Alone Assessment | Number of contaminated residential yards cleaned up | n/a |
| | Number of workers on site | 18 |
| Contaminant(s) of Concern | Aluminum dross, hydrochloric acid, sulfuric acid, bleach, magnesium, flammable liquids | |
| Oil Response Tracking | | |
| Estimated volume | Initial amount released | n/a |
| | Final amount collected | n/a |
| CANAPS Info | FPN Ceiling Amount | n/a |
| | FPN Number | n/a |
| | Body of Water affected | n/a |
| Administrative and Logistical Factors (Place X where applicable) | | |
| Precedent-Setting HQ Consultations (e.g., fracking, asbestos) | Community challenges or high involvement | Radiological |
| x More than one PRP | Endangered Species Act / Essential Fish Habitat issues | Explosives |
| AOC | Historic preservation issues | Residential impacts |
| UAO | NPL site | Relocation |
| DOJ involved | Remote location | Drinking water impacted |
| Criminal Investigation Division involved | X Extreme weather or abnormal field season | X Environmental justice |
| Tribal consultation or coordination or other issues | Congressional involvement | High media interest |
| x Statutory Exemption for \$2 Million | Statutory Exemption for 1 Year | Active fire present |
| x Hazmat Entry Conducted – Level A, B or C | Incident or Unified Command established | Actual air release (not threatened) |

2.2 Planning Section

2.2.1 Anticipated Activities

2.2.1.1 Planned Response Activities

Please see initial POLREP for a summary of planned removal activities on-site.

All planned actions have been completed.

2.2.1.2 Next Steps

2.2.2 Issues

2.3 Logistics Section

ERRS managed site logistics.

2.4 Finance Section

No information available at this time.

2.5 Other Command Staff

2.5.1 Safety Officer

OSC served in this role.

2.5.2 Liaison Officer

OSC served in this role.

2.5.3 Information Officer

OSC served in this role.

3. Participating Entities

3.1 Unified Command

NA

3.2 Cooperating Agencies

MDEQ

4. Personnel On Site

5/6/15

EPA - 1

START - 0

ERRS - 4

MDEQ- 1

5/7/15
EPA - 1
START - 1
ERRS - 4

5/8/15
EPA - 0
START - 1
ERRS - 2

5. Definition of Terms

ATSDR Agency for Toxic Substances and Disease Registry
BZ Breathing Zone
CERCLA Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS Comprehensive Environmental Response, Compensation, and Liability Information System
DNR Department of Natural Resources
EPA Environmental Protection Agency
ERNS Emergency Response Notification System
ERRS Emergency and Rapid Response Service
LEL Lower Explosive Limit
MDEQ Michigan Department of Environmental Quality
mg/m³ miligrams per cubic meter
NCP National Oil and Hazardous Substance Pollution Contingency Plan
NOAA National Oceanic and Atmospheric Administration
NPL National Priorities List
NRC National Response Center
OSC On Scene Coordinator
PPE Personal Protective Equipment
PPM Parts per million
RCRIS Resource Conservation and Recovery Act Information System
RP Responsible Party
RRT Regional Response Team
START Superfund Technical Assessment and Response Team
ug/m³ micrograms per cubic meter
US FWS United States Fish and Wildlife Service
USCG United States Coast Guard
VOC Volatile Organic Compound

6. Additional sources of information

6.1 Internet location of additional information/report

<http://www.epaosc.net/alreco>

Air monitoring data was posted real time at <http://viper.ert.org>. Users need to create a login upon their first visit to the website. Once logged in, select *R05 ALRECO Metals Deployment* to view site data.

6.2 Reporting Schedule

This is the final POLREP for this project. All planned time critical removal action work has been completed and no further POLREPs are planned.

7. Situational Reference Materials

No information available at this time.