

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

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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	Medium	Quantity	Quantity	Quantity	Manifest #	Disposal
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Stream			Units	Estimated Or Final?		
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	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)
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)
Aluminum Production Waste (Piles)	Solid	23.51	final	2954245	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	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)
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 Monofill)
Aluminum Production Waste (Piles)	Solid	26.58	final	2954319	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 Monofill)
Aluminum Production Waste (Piles)	solid	24.94	final	2954347	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	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 numbers should overlap.	Miles of river systems cleaned and/or restored		n/a
	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
	Number of contaminated residential yards cleaned up		n/a
Stand Alone Assessment	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

2.4.1 Narrative

ERRS costs are estimated through May 13, 2015. START costs are estimated through May 15, 2015.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
ERRS - Cleanup Contractor	\$1,500,000.00	\$1,087,270.75	\$412,729.25	27.52%
TAT/START	\$120,000.00	\$95,021.00	\$24,979.00	20.82%
Intramural Costs				
Total Site Costs	\$1,620,000.00	\$1,182,291.75	\$437,708.25	27.02%

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

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 milligrams 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.

POLREP #15 Last Updated 3/29/2016