October 23, 2019

Real Alloy Specification, LLC
Attn: Mr. Phil Henson
Plant Manager
4525 West Old 24
Wabash, Indiana 46992

Dear Mr. Henson:

Re: Solid Waste Land Disposal Facility Permit Renewal
Real Alloy Non-Municipal Solid Waste Landfill
Solid Waste Program ID 85-06
Wabash County

Real Alloy Specification, LLC's permit renewal for the Real Alloy Non-Municipal Solid Waste Landfill is approved. You, the permittee, must comply with Indiana's rules for solid waste land disposal facilities (329 IAC 10) and the terms of this permit. Your attention to the requirements for managing, containing, and disposing of waste and leachate protects public health and the environment in your community. Please feel free to contact us or your compliance inspector if you have any questions.

This permit will expire on October 1, 2024. To operate past this date, you must submit a renewal application on or before June 3, 2024.

The facility is a non-municipal solid waste landfill with approximately 23.4 acres approved for the disposal of aluminum smelting wastes. It is located at 4525 West Old 24, Wabash.

Public records for your facility are available in IDEM's Virtual File Cabinet at www.in.gov/idem. Documents related to this approval include the application dated September 28, 2018 (VFC #82626969) and additional information dated July 3, 2019 (VFC #82805342).

You can review the Indiana Code (IC) and the Indiana Administrative Code (IAC) references in this document at iga.IN.gov. IC references are under the “Laws” link; IAC references are under the “Publications” link.
This permit does not: convey any property rights of any sort or any exclusive privileges; authorize any injury to any person or private property or invasion of other private rights or any infringement of federal, state, or local laws or regulations; or preempt any duty to comply with other state or local requirements (329 IAC 10-13-4(a)).

Please note, as the owner or operator of this facility, and owner of the land upon which it is located, you are liable for any environmental harm caused by the facility (329 IAC 10-13-4(b)).

If you do not comply with the requirements of this permit, IDEM may modify or revoke this permit (329 IAC 10-13-6) or initiate an enforcement action.

If you wish to appeal this decision, you must file a request for administrative review with the Office of Environmental Adjudication within 18 days after the postmark of this letter. The enclosed Notice of Decision and Guide to Appeals Process notifies you of additional important details regarding the appeal process and your rights and responsibilities for filing an adequate and timely appeal.

If you have any questions, please contact John Hale, the permit manager assigned this facility, by dialing (317) 232-8871 directly, or by e-mail at jhale@idem.in.gov.

Sincerely,

Rebecca Eifert Joniskan, Chief
Solid Waste Permits Branch
Office of Land Quality

Enclosures: Permit Requirements
Notice of Decision
Leachate Generation and Recirculation Report Form
Guide to Appeals Process
Letter to the Wabash Plain Dealer
Letter to the Wabash-Carnegie Public Library

cc with enclosures: Wabash County Health Department
Wabash County Commissioners
Wabash County Solid Waste Management District
Mayor, City of Wabash
PERMIT REQUIREMENTS

A. General Permit Requirements
B. Construction Requirements
C. Preoperational Requirements
D. Operational Requirements
E. Gas Emission Control and Monitoring
F. Ground Water Monitoring Requirements
G. Closure Requirements
H. Post-Closure Requirements
I. Financial Responsibility for Closure and Post-Closure
A. GENERAL PERMIT REQUIREMENTS

A1. The permittee must comply with 329 IAC 10 except where alternative specifications or requirements are noted in approved plans or this permit.

A2. The permittee must construct, operate, and maintain the solid waste land disposal facility (facility) as described in the approved plans and specifications. The permittee must request approval before modifying the facility or facility operating procedures. The permit modification application requirements are in 329 IAC 10-11. Application forms are available from the Solid Waste Permits Section at the address listed in Requirement A4.

Certain insignificant modifications defined in 329 IAC 10-2-97.1 are eligible for the streamlined notification or approval procedures described in 329 IAC 10-3-3.

A3. The permittee must call (888) 233-7745 (IDEM’s emergency response line) as soon as possible after learning of any event that may cause an imminent and substantial endangerment to human health or the environment, such as a reportable spill (327 IAC 2-6.1) or a fire or explosion that requires the response of the local fire department.

The permittee must submit a written report to the Solid Waste Permits Section at the address given in Requirement A4 within five business days after the event. The report must describe the event, and actions taken or planned to correct the event and prevent its recurrence.

A4. Unless otherwise noted, submittals must be sent to the permit manager assigned to your facility at the following address:

Indiana Department of Environmental Management
Office of Land Quality
Solid Waste Permits
IGCN 1101
100 North Senate Avenue
Indianapolis, IN 46204-2251

Please provide five copies printed double-sided. We greatly appreciate an electronic copy in Acrobat PDF format on CD or DVD, in place of one of the printed copies.

A5. The permittee must submit quarterly tonnage reports (329 IAC 10-14-1) through the Re-TRAC Connect website: https://connect.re-trac.com/. An account is already set up for you to submit this information. To obtain your login credentials, please e-mail olqregulatoryreporting@idem.IN.gov with your permit number and contact information. Each report must include the tonnage of waste received by and delivered to the facility during the period for which the report is being submitted. Reports must be submitted by the fifteenth day of the first month after the end of the period for which the report is being submitted.
A6. The permittee must pay the following annual operation fees if the facility is permitted on January 1 of the billing year (IC 13-20-21-4 and -8), in accordance with the following daily tonnages:

<table>
<thead>
<tr>
<th>Tons Per Day</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 500</td>
<td>$35,000</td>
</tr>
<tr>
<td>240-499</td>
<td>$15,000</td>
</tr>
<tr>
<td>100-249</td>
<td>$7,000</td>
</tr>
<tr>
<td>&lt; 100</td>
<td>$2,000</td>
</tr>
</tbody>
</table>

IDEM is required to invoice this fee by January 15 of each year (IC 13-20-21-8). Payments can be made as described on the invoice.

B. CONSTRUCTION REQUIREMENTS

B1. The permittee must notify IDEM in writing at least 15 days before beginning construction of a new area.

B2. The permittee must install boundary markers to identify limits of construction of each new area.

B3. The permittee must test and install all liner and final cover components as specified in Section 7.3 titled "Liner Construction Specification," in documentation dated January 24, 1989 (VFC #69120238, pp. 19-25 of 25) and the requirements of this permit.

B4. The permittee must construct the base grades for the facility as shown on Sheet 8 of 17, titled "Leachate Collection/Engineering Modification Plan," dated April 1994 (VFC #32240222).

B5. Upon selecting the specific materials for the composite liner, the permittee must test the materials to verify that the interface friction values meet or exceed the values in the approved design. If the tests indicate that the interface friction values do not achieve the minimum factor of safety assumed in the approved plans, the permittee must select and test alternate materials and rerun the slope stability analysis.

B6. The permittee is approved to construct the double composite liner with a leachate collection system as described below, starting from the subgrade and extending upward:

a. 3 feet of compacted soil liner

b. 60 mil of high-density polyethylene (HDPE) geomembrane liner (secondary liner)

c. Geonet drainage layer (leak detection zone)
d. 3 feet of compacted soil liner

e. 60 mil of HDPE geomembrane liner (primary liner)

f. 18 inches of sand drainage layer

g. 24 inches of granular heat dissipation layer

B7. The permittee must construct the soil liners and the leachate collection system as follows:

a. Proof-roll the subbase of each cell, and remove and replace any soft pockets with compacted material before constructing the clay liners as specified in the original permit application.

b. Use soil that meets the Unified Soil Classification System (USCS) classification of ML, CL, MH, CH, or OH, and that is free of vegetation, roots, wood, large stones, and construction debris or other undesirable materials.

c. Compact the soil liners to at least 95% standard or 90% modified Proctor density.

d. Place the soil liners in lift thicknesses of 9 inches or less.

e. Verify the moisture content of the soil liners is between 0% and 5% on the wet side of optimum.

f. Achieve an equivalent hydraulic conductivity of not more than $1 \times 10^{-7}$ centimeters per second for the compacted soil liners.

g. Place at least 18 inches of drainage layer directly over the entire constructed primary geomembrane liner. The drainage layer must have a minimum hydraulic conductivity of $1 \times 10^{-3}$ centimeters per second.

B8. Before placing waste in a newly constructed area, the permittee must repair liner or leachate collection system components damaged by desiccation, freeze/thaw cycles, vehicular traffic, or other activities or weather conditions.
C. PREOPERATIONAL REQUIREMENTS

C1. The permittee must submit a construction certification report (CCR) at least 21 days before placing waste in a newly constructed area. An Indiana registered professional engineer must certify that the area's construction complies with approved plans and specifications. The CCR report must include the following:

a. The boundaries of the certified area;

b. The results of all tests conducted during construction;

c. The results of the interface friction tests and any new slope stability analyses;

d. Documentation that all leachate collection pipes and sumps are free of obstructions;

e. Documentation that the soil liners and the leachate collection system are properly constructed as specified in Requirement B7; and

f. Documentation that the damaged liner or leachate collection system components are properly repaired as specified in Requirement B8.

Unless notified otherwise by IDEM, the facility may begin to accept waste in a newly constructed area 21 days after IDEM receives the documents listed above.

D. OPERATIONAL REQUIREMENTS

D1. The permittee must comply with 329 IAC 10-28 (Operational Requirements).

D2. The permittee must not dispose of waste outside of the solid waste boundary line shown on Sheet 1, titled "Solid Waste and Facility Boundary Exhibit," dated August 1, 2018 (VFC #82628909, p.13 of 29).

D3. The permittee may only dispose of aluminum smelting wastes generated by Real Alloy Specification, LLC, or other Real Alloy-owned facilities that meet the limits specified in Requirement D4 and that have a valid waste approval under Requirement D5.

D4. The permittee must comply with the following disposal requirements:

a. Not dispose secondary aluminum smelting waste at the landfill that generates temperatures above 350 °F upon contact with water, or "hot" waste with temperatures above 250 °F.

b. Follow the procedures outlined in the documents titled, "Sampling and Screening Procedures to Identify Potentially More Reactive Incoming
Materials" and "Dross Mill Fines Acceptance Screening Test (RMT test)"
included as Attachments 2 and 3, respectively, in the document dated
February 1, 2008 (VFC #28305682, pp. 5-6 of 24, and pp. 7-11 of 24).

c. Submit to IDEM a quarterly report summarizing the test results and any
process changes or information learned.

d. Submit a minor modification application and receive approval before changing
the RMT testing required above.

D5. The permittee must submit a request to dispose of a new waste at least 90 days
before the intended date of initial disposal and receive the approval before
beginning disposal of the new waste. The permittee must renew waste approvals
every two years by submitting a renewal request at least 60 days before the
expiration date.

All new waste approval and waste approval renewal requests must include the
following information:

a. A description of the aluminum smelting waste. This documentation must
include the source, name, physical description, and estimated annual
 tonnage of the waste.

b. Documentation, based on either generator knowledge or testing for
hazardous waste characteristics, that the waste is not a hazardous waste
 regulated by 329 IAC 3.1.

c. Documentation that the waste is not hot or capable of generating heat in
combination with other wastes or water (329 IAC 10-8.2-3).
Documentation must include UNDOT 4.3 analysis, a summary of the
analysis specified in Requirement D4, and any documentation showing
that the material is compatible with wastes currently being disposed of in
the landfill.

d. Information regarding the presence/absence of volatile organic
 compounds (VOCs) to comply with Requirement F24.

D6. Because this landfill is limited to use by Real Alloy Specification, LLC, for the
disposal of wastes generated by Real Alloy Specification, LLC or other Real
Alloy-owned facilities, the following requirements do not apply:

a. A sign at the facility entrance (See 329 IAC 10-28-3(a))

b. Payment of the solid waste management fee (See IC 13-20-22-13)

c. Payment of the solid waste management district fee (See IC 13-21-13-4)
D7. The permittee must maintain the site benchmark throughout the entire life and post-closure care period of the facility.

D8. The permittee must maintain permanent visible facility and solid waste boundary markers for the life of the facility.

D9. The permittee must meet the following requirements regarding leachate storage at the facility:
   a. Maintain an adequate leachate storage capacity during the landfill operation and the post-closure period to ensure proper operation of the leachate collection system and compliance with 329 IAC 10-28-16 and 329 IAC 10-28-20. Leachate collection system and sump areas located within the waste disposal area do not count towards the leachate storage capacity.
   b. Maintain the leachate level in the sumps at or below the depth noted in the approved plans. Each week the permittee must monitor and record the leachate levels in the operating record to verify the leachate head in the landfill is maintained at or below one foot above the lowest elevation of the cell floor, not including the cell sump.
   c. Operate leachate storage in an environmentally safe manner.

D10. The permittee must meet the following requirements regarding leachate sampling and analysis:
   a. Conduct leachate sampling and analysis as required by the wastewater treatment plant or other leachate disposal facility, as applicable, and maintain the results in the facility’s operating record.
   b. On or before March 1 of each year, submit to IDEM a report for the leachate generated from the primary and secondary collection system the previous year using the enclosed “Leachate Generation and Recirculation Report” or a similar report developed by the permittee.

D11. The permittee must inspect the landfill monthly for compliance with 329 IAC 10 and this permit. The inspection must include the following: landfill cover for evidence of differential settlement, run-off control structures, erosion control structures, drainage ditches, monitoring wells, storm water system, landfill gas control system, airflow cooling system, and the leachate collection system. The permittee must keep a record of these inspections, problems observed, and corrective actions taken in the facility operating records for a period of at least three years. The permittee must submit at the end of each quarter a report to IDEM’s contact specified in Requirement A4 denoting any problems noted during the monthly inspections and corrective action(s) taken.
D12. The permittee must clean out the airflow cooling system as necessary to maintain the functionality of the system.

D13. The permittee must control public access to the facility and prevent unauthorized vehicular traffic and illegal dumping.

D14. The permittee must manage surface water as described in the approved plan dated March 7, 2014 (VFC #69789362) and meet the following requirements:
   a. Divert surface water from the active fill area to minimize surface water contact with the waste and interference with the daily operation.
   b. Properly maintain drainage ditches and the sedimentation basin to prevent off-site deposition of sediment. Remove sediment deposits from drainage ditches as necessary to properly convey storm water.
   c. Construct temporary run-off structures in areas which are unable to drain to the sedimentation basin.

D15. The permittee must apply six inches of soil cover to all exposed waste by the end of each operating day regardless of weather conditions (329 IAC 10-28-12(a)(1) and (2)).
   a. The permittee is approved to use restricted waste Type III foundry sand as alternate daily cover (ADC) (329 IAC 10-28-11(b)).
   b. All wastes accepted for disposal that are classified as “dangerous when wet” under UNDOT 4.3 analysis must have daily cover applied immediately after placement in the landfill.

D16. The permittee must apply one foot of intermediate soil cover over any areas that have not received waste for 90 days or more (329 IAC 10-28-12(a)(3)). The permittee must grade the intermediate cover to promote surface water drainage and prevent ponding of water, and implement erosion and sediment control measures within 15 days after placement. The erosion/sedimentation control measures may include the following: establishing vegetation, using alternative/synthetic covers or liners, and/or using other applicable erosion and sedimentation control measures.

D17. If the permittee notices changes to the physical appearance of the cover soil or uses borrow sites other than those specified in the approved plans, the permittee must conduct gradation and Atterberg Limits tests on three samples of the soil. The permittee must submit the results to IDEM within 15 days after such testing, and before using the material as cover at the landfill.
D18. The permittee must monitor and record the surface temperatures of the waste at the landfill before placing daily cover as described in Attachment 4, titled “Landfill Surface Temperature Monitoring and Record Keeping,” included in documentation dated February 1, 2008 (VFC #28305682, Attachment 4, pp. 12-13 of 24).

D19. The permittee must implement the following landfill management practices:

a. Place waste in layers, grade, and cover daily.

b. Grade the active face of the landfill to minimize standing water.

c. Each day before disposing waste, and after each precipitation event, inspect the active working face for standing water or steam or gas generation. The permittee must not place waste over an area with standing water or where steam or gas generation is observed.

d. Stop placing waste when:

   (1) There is a precipitation event.

   (2) A thermo-imaging device detects a surface temperature above 200 °F for two consecutive days at any location on the landfill. The permittee must measure the subsurface temperatures in these areas with a temperature probe. If the subsurface temperature in these areas is less than 250 °F, the permittee may resume placing waste. If the subsurface temperature is 250 °F or greater (a hot spot), the permittee must follow requirements e and f below.

   (3) A thermo-imaging device detects a surface temperature, or a probe detects a subsurface temperature, of 250 °F or greater (a hot spot) in an area of the active working face of the landfill.

e. Excavate wastes from “hot spots” (i.e. areas with surface or subsurface temperatures 250 °F or greater) and spread a thin layer of waste on top of a soil cover to let it cool. Cover the waste with soil by the end of the day.

f. Monitor these landfill “hot spots” (surface temperature and subsurface temperature) daily until the surface temperature is less than 200 °F and the subsurface temperature is less than 250 °F. When the surface temperature is less than 200 °F and subsurface temperature is temperature is less than 250 °F, the permittee may resume placing waste.

g. Each quarter, the permittee must measure the chloride level in the secondary leachate collection system and record the results in the facility operating record.
h. Install one thermocouple per acre for each newly constructed cell at or near the heat dissipation layer in the landfill’s composite bottom liner to monitor the internal waste temperature. Record the temperature quarterly. The permittee must comply with the following:

1. If a thermocouple fails, replace the damaged thermocouple within 30 days.

2. If, for reasons beyond the control of the permittee, the failed thermocouple cannot be replaced, the permittee must submit documentation to IDEM within 30 days after the thermocouple failed detailing why it cannot be replaced and proposing an alternative monitoring method.

D20. The permittee must submit a quarterly report to IDEM summarizing the daily monitoring and corrective action taken as required in Requirement D18 above.

**E. GAS EMISSION CONTROL AND MONITORING**

E1. As allowed by 329 IAC 10-13-6(a) and IC 13-15-7-1(5), the permittee may postpone explosive gas monitoring from the requirements under 329 IAC 10-28-19 (Explosive gases) until such time that the permittee starts to accept waste that generates explosive gases. At each renewal, the permittee must submit justification to demonstrate the absence of an operational need for explosive gas monitoring at the facility.

If landfill wastes generate methane explosive gases, then IDEM requires the following:

a. Submit a methane monitoring plan (MMP) as required under 329 IAC 10-28-19. The permittee must submit the MMP to IDEM within 90 days after the explosive gas finding. This submittal must include one original paper copy and one PDF electronic file. IDEM will base the review of the MMP on the methane monitoring program non-rule policy document Waste-0056-NPD available on the IDEM website at http://www.in.gov/idem/ctap/2497.htm.

b. Implement the MMP following IDEM approval.

c. Submit a revised MMP for approval if requested by IDEM. The permittee must submit the revision within 60 days after receiving the request. This submittal must include one original paper copy and one PDF electronic file.
F. GROUND WATER MONITORING REQUIREMENTS

F1. The permittee must comply with 329 IAC 10-29 (Ground Water Monitoring and Corrective Action).

F2. The permittee must conduct ground water monitoring throughout the active life and the post-closure care period of the facility (329 IAC 10-29-3). IDEM may extend the post-closure care period if ground water monitoring results show that the facility has not stabilized (329 IAC 10-31-4).

MONITORING DEVICES

F3. The permittee's ground water monitoring well system includes the following wells: MW-4R (also referenced in the facility's historical record as MW-4AR), MW-5A, MW-7A, MW-8A, and MW-11A. Wells MW-4R and MW-5A are considered upgradient.

At least 60 days before installing new monitoring devices, the permittee must submit a device installation plan for IDEM approval. The plan must provide the following:

a. A map showing the location of each device with respect to the entire facility's ground water monitoring system and ground water flow.

b. A demonstration that each device yields representative ground water samples at an appropriate location and depth within the same aquifer or aquifers as the existing monitoring system.

c. Drilling methods and procedures that follow 329 IAC 10-21-4; well construction materials and details, including protocol for collecting, describing, and analyzing consolidated or unconsolidated materials (329 IAC 10-24-3(3)).

d. An example of a borehole log that includes information specified under 329 IAC 10-24-3(2).

e. Environmental qualifications of all field personnel.

The permittee must submit all field documentation to IDEM within 60 days after completing all related field work.

F4. The permittee must label all ground water monitoring wells with a permanent and unique identification. When reporting well information, the permittee must include the identification for each well.

F5. The permittee must secure the access ways to all ground water monitoring wells and piezometers to prevent unauthorized access and maintain the access ways so they are passable year round.
F6. The permittee must maintain all ground water monitoring wells as follows:
   a. Complete necessary repairs, other than replacement (see Requirement F8), within 10 days after discovery.
   b. Keep the monitoring wells securely capped and locked when not in use.
   c. Repair all cracks in and around the casings.
   d. Repair cracks in concrete pads.
   e. Control vegetation height.
   f. Redevelop the monitoring wells as needed.

F7. When abandoning a ground water well that is part of the facility's approved ground water monitoring system, the permittee must:
   a. Submit a written proposal for approval explaining the reasons for and detailing the method of abandonment.
   b. Use methods that comply with Indiana Department of Natural Resources (IDNR) regulation 312 IAC 13-10-2.
   c. Notify the IDEM Geology Section by phone, e-mail, or letter at least 10 days before the date the abandonment work will occur.
   d. Provide written notification of abandonment to IDEM and IDNR within 30 days after plugging is complete. (IDNR (312 IAC 13-10-2(f)) requires written notice.)

F8. The permittee must notify IDEM by phone, e-mail, or letter within 10 days after discovering that a ground water monitoring well has been destroyed or is not functioning properly. The permittee must repair the well if possible. If the well cannot be repaired, then within 30 days after discovery, the permittee must submit a proposal for abandonment and replacement.

PLANS


F10. If requested by IDEM, the permittee must submit for approval a detailed Statistical Evaluation Plan (StEP) under separate cover. The StEP must comply with the statistical evaluation requirements described at 329 IAC 10-29-5 and this permit requirement. Once approved, a StEP becomes a part of this permit.

In the new StEP and statistical evaluation report (see Requirement F20.d), the permittee must present the data distribution assumptions. The statistical procedures must be appropriate for the data distribution and provide a balance between the probability of falsely identifying a significant difference and the probability of failing to identify a significant difference. To achieve the balance, the permittee should consider the background sample sizes, the number of individual statistical tests performed, and the specific verification resampling method.
F11. If IDEM requests a revision to the GWM/QAP/P or StEP (see Requirement F10), the permittee must submit the revised plan(s) for approval. The permittee must submit the plan(s) within 60 days after receiving the request. This submittal must include one original paper copy and one PDF electronic file of each plan. The permittee must not implement the revised plan(s) before receiving approval.

F12. If the permittee makes design changes to the existing ground water monitoring system listed in Requirement F3, the permittee must submit a revised GWM/QAP/P and StEP (see Requirement F10) for approval. The permittee must submit the plans within 60 days after completing all field activities associated with the design changes. This submittal must include one original paper copy and one PDF formatted electronic file of each plan. The permittee must not implement the plans before receiving approval.

MONITORING PROGRAMS

F13. The permittee must sample the facility's ground water monitoring well system (see Requirement F3) semiannually, during the months of February and August of each year. Each sample must be analyzed for the following Phase I parameters including the supplemental parameters:

a. Field pH
b. Field specific conductance
c. Field Temperature
d. Aluminum (Total)
e. Ammonia (N)
f. Barium (Total)
g. Boron (Total)
h. Calcium (Total)
i. Chemical oxygen demand
j. Chloride
k. Fluoride
l. Lead (Total)
m. Magnesium (Total)
n. Manganese (Total)
o. Nitrate (as N)
p. Potassium (Total)
q. Selenium (Total)
r. Sodium (Total)
s. Total dissolved solids
t. Total phenolics
u. Zinc (Total)

Supplemental parameters (Waste specific):

a. Arsenic (Total)
b. Cadmium (Total)
c. Chromium (Total)
d. Copper (Total)
e. Mercury (Total)

The Supplemental parameters a. through e. do not require statistical evaluations unless the IDEM Geology Section notifies the permittee to make the evaluations as described in Requirement F10. However, the permittee must evaluate and discuss the concentrations of these supplemental constituents in the report submitted following each sampling event.

F14. The permittee must use the results of the static water level measurements collected each semiannual ground water monitoring event to prepare ground water potentiometric surface maps containing the following:

a. Location and identification of each ground water monitoring well.
b. Static water level relative to mean sea level for each well and piezometer. The permittee must measure all elevations on the same day and as close in time as possible before the purging and sampling event.
c. Date and time of static water level measurement for each well and piezometer.
d. Ground-surface elevation at each well and piezometer.
e. Facility property boundaries.
f. Identification of the aquifer represented, either by a name or elevation.
g. Solid waste fill boundaries.
h. Facility name and county.
i. Map scale, north arrow, ground water flow direction arrows, and potentiometric-surface contour intervals.
j. Indications of which monitoring wells are considered background, upgradient, downgradient, or intrawell.
k. Locations and elevations of all site benchmarks.

F15. If a ground water potentiometric-surface map or flow map indicates that the ground water flow direction is other than anticipated in the design of the monitoring well system, the permittee must notify IDEM of the difference in the ground water monitoring report submitted for Requirement F20. The notification must include either of the following: information demonstrating that the monitoring well system still complies with 329 IAC 10-29-1(b); or a proposal to revise the monitoring system design for IDEM approval.

If design changes to the existing ground water monitoring system listed in Requirement F3 are necessary, the permittee must make the changes within 30 days after receiving IDEM approval of the revised design or other time frame approved by IDEM.
F16. The permittee must determine the background ground water quality for any background well added to the facility's ground water monitoring system by sampling each new well for four consecutive quarters within one year after its installation. The permittee must establish background ground water quality for the following:

b. The secondary standards in 329 IAC 10-29-7(c).
c. The ground water protection standard in 329 IAC 10-29-10, except those exempted by Requirement F24.

F17. If the permittee determines there is a statistically significant increase (increase or decrease for pH) over background (see Requirement F10) for two or more of the Phase I parameters (except field temperature) at any of the downgradient monitoring wells, the permittee must comply with the following requirements:

a. Notify IDEM in writing within 14 days after the finding. The notification must state which Phase I parameters showed statistically significant increases (increase or decrease for pH) over background levels and which downgradient monitoring well(s) showed the elevated concentrations.
b. Collect and analyze the ground water from all monitoring wells for the parameters specified in Requirement F13 and the parameters specified at 329 IAC 10-29-7(b), except those exempted by F24 and part c below. The permittee must submit the results to IDEM within 60 days after determining the statistically significant increases.
c. Establish a Phase II monitoring program based on the results obtained from Requirement F17.b and consult with the IDEM Geology Section within 30 days after completing Requirement F17.b.

The permittee must continue the scheduled Phase I monitoring as described in Requirement F13 and 329 IAC 10-29 throughout the establishment and implementation of a Phase II monitoring program.

F18. In lieu of Requirements F17.b and F17.c, the permittee may attempt to demonstrate that a source other than the solid waste facility caused the increase (increase or decrease for pH) or that the increase (increase or decrease for pH) resulted from error in sampling, analysis, or evaluation. For IDEM to approve the demonstration, the permittee must comply with the following requirements:

a. Notify IDEM in writing of the intent to make a demonstration. The permittee must submit the notification within 7 days after determining a statistically significant increase (increase or decrease for pH).
b. Submit a report to IDEM within 90 days after determining a statistically significant increase (or pH decrease). The report must demonstrate that a source other than the solid waste facility caused the increase (increase or
decrease for pH), or that the increase (increase or decrease for pH) resulted from error in sampling, analysis, or evaluation. The report must state what efforts the permittee will take to prevent these errors from recurring.

c. Continue to monitor ground water at all monitoring wells according to the scheduled Phase I monitoring established under 329 IAC 10-29-6.

If a demonstration is not acceptable to IDEM, the permittee must continue with Requirements F17.b and F17.c.

F19. If necessary, the permittee must implement a corrective action program as required under 329 IAC 10-29-9. The corrective action program is complete when ground water protection standards have been met at all points of the plume beyond the monitoring boundary for a period of 3 consecutive years using the statistical procedures outlined in 329 IAC 10-29-5 and procedures approved through this permit.

REPORTING

F20. No later than 60 days after each ground water monitoring event completed for Requirement F13, the permittee must submit the information in a ground water monitoring report to the IDEM Solid Waste Permits Section in one unbound paper copy and in one electronic version in PDF format. The report must include the following:

a. One original unbound laboratory-certified report with analytical and field parameters results, field sheets, and chain-of-custody forms. The laboratory-certified report must include the following: detection limit for each chemical parameter, date samples collected, date the laboratory received the samples, date the laboratory analyzed the samples, date the laboratory prepared the report, method of analysis the laboratory used for each parameter, sample identification number for each sample, and results of all sample analyses.

b. All information specified in Requirement F14 and a table summarizing the static water level and ground water elevation for each well and piezometer.

c. Comments regarding ground water quality, recent notifications of any compliance issues related to a problematic well or piezometer (see Requirement F8), special field observations and procedures, and deviations from the GWM/QAPP.

d. One original unbound copy of the statistical evaluation report (see Requirement F10).

The permittee may mail the PDF copy and electronic data file specified in Requirement F21 on a CD-ROM or DVD. The permittee must clearly label the PDF copy and data file with the facility name and a brief description of the file. Alternatively, the permittee may e-mail the PDF copy and electronic data file to IDEM Solid Waste Permits Section at the address listed in Requirement A4 and
carbon copy ollgdata@idem.IN.gov. The e-mail must include the facility name and a brief description typed in the e-mail's subject heading.

F21. The permittee must submit one electronic data file of the analytical and field parameters results formatted as an ASCII, tab-delimited text file. The electronic data file must contain the facility's name, permit number, and the name of the analytical laboratory. Additionally, the file must include the fields listed below for the analytical results and the following field parameters: pH, specific conductance, temperature, well depth, depth to water, and static water elevation.

a. SamplingDate: Month, day, and year (mm/dd/yyyy). Value should be formatted as a date if possible.
b. SamplePointName: Names of monitoring wells, piezometers, leachate wells, surface water collection points, etc.
c. LaboratorySample ID: ID assigned to the sample by the laboratory.
d. SampleType: Regular, duplicate(s), trip blank(s), equipment blank(s), field blank(s), verification re-sample(s), and replicate(s).
e. SpeciesName: Chloride, sodium, ammonia, field pH, etc. The order of constituents is not critical. However, it is best to reflect the order that is on the laboratory-data sheets and keep all field data grouped together. Metals should indicate "dissolved" phase or "total" phase. Associated static water levels do not have their own header, but must be entered as "GW WaterLevel" under the header "SpeciesName." The actual elevations must be entered under the header "Concentration."
f. Concentration (results): The entry must be a number. Please do not enter text, such as "NA," "ND," or "<."
g. ConcentrationUnits: mg/l, µg/l, standard units for pH, degrees Celsius (°C) or degrees Fahrenheit (°F) for temperature, and umhos/cm for specific conductance.
h. Detected: Yes or no.
i. DetectionLimit.
j. AnalyticalMethods.
k. EstimatedValue: Indicate "Yes" if the reported concentration is an estimated value. If a value recorded was not estimated, enter "No." If a concentration is estimated, use the "Comment" field to explain why the concentration was estimated.
l. Comment: Analytical laboratory and/or field personnel comments regarding the reported results.
m. SampleMedium: Ground water, leachate, surface water, etc.
n. ProgramArea: Solid Waste.

Additional guidance on electronic data file submittals is available on IDEM's website at www.in.gov/idem/landquality/files/sw_resource_data_deliverable_reqs.pdf or by e-mailing questions to ollgdata@idem.IN.gov.
F22. The permittee must retain laboratory quality assurance/quality control (QA/QC) documentation from valid analyses of ground water samples for at least 3 years.

Upon IDEM request, the permittee must submit the laboratory QA/QC for a specified ground water monitoring data package, in 1 paper copy and 1 electronic copy in PDF format, within 60 days after receiving the request. The "Solid & Hazardous Waste Programs, Analytical Data Deliverable Requirements: Supplemental Guidance" provides additional information about laboratory QA/QC. The guidance is available on IDEM's website at www.in.gov/Idem/landquality/files/sw_resource_data_deliverable_regs.pdf.

F23. The permittee must include a graphical representation of the facility's ground water data, in the form of time versus concentration graphs, in the statistical evaluation report (see Requirement F10) when requested by the IDEM Geology Section.

F24. The permittee may omit volatile organic compounds (VOCs) from the facility's ground water monitoring program required under 329 IAC 10-29 as long as no waste containing VOCs has been placed in the landfill. If the facility disposes of waste containing VOCs, then the permittee must:

a. Monitor for VOCs in subsequent monitoring events in compliance with the ground water monitoring requirements of 329 IAC 10-29.

b. Update the GWM/QAP/P and StEP (see Requirement F10) in accordance with Requirement F11.

The permittee must notify IDEM at least 60 days before any planned disposal of waste containing VOCs. The permittee must notify IDEM within 5 business days after discovering any unplanned disposal of waste containing VOCs.

G. CLOSURE REQUIREMENTS

G1. The permittee must comply with 329 IAC 10-30 (Closure Requirements) and follow the facility's approved closure plan titled "Solid Waste Closure Plan," dated July 3, 2019 (VFC #82805342, pp. 48-57 of 69).

G2. The permittee must notify IDEM in writing at least 60 days before the intended date to begin closure of each area.

G3. The permittee must construct the final cover as follows:

a. As shown on the approved final grading plan drawing on Sheet 11 of 17, titled "Revised Final Grade Plan," dated March 31, 1998 (VFC #56468721).

b. Install one-foot thick gas venting layer as described in documentation dated March 31, 1998 (VFC #44687881).
c. Grade and stabilize the final cover as specified in 329 IAC 10-28-14.

d. Within 180 days after:

(1) Any area of the landfill is filled to its approved elevation, less the thickness of the cover material, or

(2) Receiving its final waste volume.

The facility closure contains 23.4 acres. As of the date of this permit, a total of 15.4 acres have been constructed and certified to receive waste. Of the 15.4 acres constructed and certified to receive waste, a total of approximately 8.6 acres have been certified closed. However, the post-closure period for the closed portion of the landfill will not begin until the entire facility is certified closed.

H. POST-CLOSURE REQUIREMENTS


I. FINANCIAL RESPONSIBILITY FOR CLOSURE AND POST-CLOSURE

I1. The permittee must maintain financial assurance in an amount not less than the estimated costs of closure and post-closure as required in 329 IAC 10-39. The permittee must submit signed originals of the financial assurance mechanism used to meet this requirement.

I2. The permittee must annually review and submit an update by June 15 addressing the following items as detailed in 329 IAC 10-39-2(c) and 329 IAC 10-39-3(c):

a. The permittee must adjust the closure and post-closure cost estimates for inflation.

b. The permittee must revise the cost estimates to account for changes which increase the cost of closure and/or post-closure.

c. The permittee may revise the cost estimates to account for changes which reduce the cost of closure and/or post-closure. The permittee must provide documentation supporting reduced cost-estimates, for example, letters and maps documenting areas certified as closed.

d. The permittee must submit an existing contour map of the approved solid waste land disposal facility that delineates the boundaries of all areas into which waste has been placed, and the boundaries of areas certified as
closed. The map must be certified by a professional engineer or a registered land surveyor.

e. The permittee must submit documentation showing that the financial assurance mechanism is adequate to cover the estimated costs of closure and post-closure. The permittee must submit signed originals of the financial assurance and/or updates used to meet this requirement.
Leachate Generation and Recirculation Report

Facility: __________________________

Year: __________

<table>
<thead>
<tr>
<th>Total Gallons Generated</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>June</th>
<th>July</th>
<th>Aug</th>
<th>Sept</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
<th>Total</th>
<th>Area Open</th>
<th>Area Closed</th>
<th>GPAD²</th>
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<tr>
<td>*Gallons disposed off-site</td>
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<td>*Gallons evaporated in LES¹</td>
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<td>*Gallons Recirculated Vertical Injection Method</td>
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<td>*Gallons Per Ton of Waste for Vertical Injection Method</td>
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<td>*Gallons Per Ton of Waste for Horizontal Injection Method</td>
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<td>*Gallons Recirculated Working Face Spray Method</td>
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<td>*Gallons Per Ton of Waste for Working Face Spray Method</td>
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</table>

Notes: *

Only applicable to those facilities that are approved for leachate recirculation or approved for leachate evaporation at an approved Leachate Evaporation System.

Areas of landfill under operation, but not closed according to the approved closure plan. Please provide the breakdown of the area under operation in terms of composite liner vs. clay liner with a leachate collection system.

Area of landfill that is closed with final cover. Please provide the breakdown of the final cover in terms of clay soil vs. composite cover.

Gallons Per Acre Per Day

Leachate Evaporation System

Please use the available rainfall data from the city nearest your facility.

Locations of off-site disposal:

1. _____________________________________________
2. _____________________________________________
3. _____________________________________________

Additional notes: At a minimum, the permittee must also submit the following information when the vertical and horizontal well injection methods are used; it does not apply when the direct/working face application method is used.

a. Location of the leachate recirculation in terms of the cell #, the phase #, and the area of the cell/phase in acres.

b. Approximate volume of the in place waste in tons, where the leachate recirculation took place.

c. Total amount of leachate being recirculated in a specific cell/phase in gallons at the time of this report. If multiple cells/ phases are receiving recirculation, please specify.

Revised September 2011
NOTICE OF DECISION

The Indiana Department of Environmental Management (IDEM) issued a permit decision for the Real Alloy Non-Municipal Solid Waste Landfill (SW Program ID 85-06) at 4525 West Old 24. This renewal of a solid waste land disposal facility permit allows the permittee, Real Alloy Specification, LLC, to renew the permit for their existing facility in Wabash County for another five years. The permit is available for review at:

Wabash-Carnegie Public Library, 188 West Hill Street, Wabash, 46992 and

The final decision is also available online via IDEM’s Virtual File Cabinet (VFC). Please go to: http://vfc.idem.in.gov/. You can search there for approval documents using a variety of criteria.

APPEAL PROCEDURES

If you wish to challenge this decision, IC 13-15-6-1 and IC 4-21.5-3-7 require that you file a Petition for Administrative Review. If you seek to have the effectiveness of the permit stayed during the Administrative Review, you must also file a Petition for Stay. The Petition(s) must be submitted to the Office of Environmental Adjudication (OEA) at the following address within 15 days of the date of newspaper publication of this Notice:

Office of Environmental Adjudication
Indiana Government Center North, Room N103
100 North Senate Avenue
Indianapolis, IN 46204

The Petition(s) must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision, or otherwise entitled to review by law. Identifying the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, or date of this notice will expedite review of the petition. Additionally, IC 13-15-6-2 and 315 IAC 1-3-2 require that your Petition include:

1. the name, address, and telephone number of the person making the request;
2. the interest of the person making the request;
3. identification of any persons represented by the person making the request;
4. the reasons, with particularity, for the request;
5. the issues, with particularity, for the request;
6. identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type granted or denied by the Commissioner’s action; and
7. a copy of the pertinent portions of the permit, decision, or other order for which you seek review, at a minimum, the portion of the Commissioner’s action that identifies the person to whom the action is directed and the identification number of the action.

Pursuant to IC 4-21.5-3-1(f), any document serving as a petition for review or review and stay must be filed with the OEA. Filing of such a document is complete on the earliest of the following dates:

1. the date on which the petition is delivered to the OEA;
2. the date of the postmark on the envelope containing the petition, if the petition is mailed to the OEA by United States mail; or
3. the date on which the petition is deposited with a private carrier, as shown by a receipt issued by the carrier, if the petition is sent to the OEA by private carrier.

In order to assist permit staff in tracking any appeals of the decision, please provide a copy of your petition to John Hale, IDEM, Solid Waste Permits, IGCN 1154, 100 North Senate Ave., Indianapolis, IN 46204-2251.

The OEA will provide you with notice of any pre-hearing conferences, preliminary hearings, hearings, stays, or orders regarding this decision if you submit a written request to the OEA. If you do not provide a written request to the OEA, you will no longer be notified of any proceedings pertaining to this decision.

More information on the review process is available at the website for the Office of Environmental Adjudication at http://www.in.gov/oea.
TO: Legal Ads

COMPANY: Wabash Plain Dealer
Wabash County

TELEPHONE NUMBER: 260-982-9331
FAX NUMBER:
E-MAIL:
kgretschmann@wabashplaindealer.com

COMMENTS:

To Whom It May Concern:

Please insert for one time only the enclosed legal notice, in the The Herald-Palladium,
on October 23, 2019.

If there is an additional charge to post this notice on your web site, please DO NOT post.

As we understand it, you will provide us with a notarized form (publishers claim) and clippings showing the date on which the advertisement appeared in your paper. This information should be mailed to Diane Poe at the following address:

dpoe@idem.IN.gov or

Diane Poe
Indiana Department of Environmental Management
Office of Land Quality
Permits Branch
IGCN Room 1101
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

Please contact Diane Poe at (317) 232-4473 or dpoe@idem.IN.gov or John Hale at (317) 232-9971 or jhale@idem.IN.gov if you have any questions. Thank you for your cooperation.
October 23, 2019

Wabash-Carnegie Public Library
188 West Hill Street
Wabash, Indiana 46992

Re: Documents for Public View

Dear Sir/Madam:

A copy of a permit decision for the Real Alloy Non-Municipal Solid Waste Landfill is enclosed. Also enclosed is a copy of the public notice announcing this permit decision and indicating the documents' availability at your library. This public notice will appear in a local newspaper soon. Please make these documents available to the public for the next 20 days since this permit can be appealed.

Please date and sign the enclosed verification of receipt form and mail it to our office in the envelope provided.

If you have any questions or comments about the permit notice, please contact me by dialing (317) 232-8871 or by e-mail at jhale@idem.in.gov.

Sincerely,

[Signature]

John Hale
Solid Waste Permits Section
Office of Land Quality

Enclosures: Notice of Decision
Permit Letter
Verification of Receipt Form
Agency Addressed Envelope

cc with enclosures: Wabash County Health Department
Wabash County Commissioners
Wabash County Solid Waste Management District
Mayor, City of Wabash
VERIFICATION OF RECEIPT OF PUBLIC REVIEW MATERIALS

NAME OF LIBRARY AND LOCATION:

Wabash-Carnegie Public Library
188 West Hill Street
Wabash, Indiana 46992

FACILITY NAME AND LOCATION:

Real Alloy Non-Municipal Solid Waste Landfill
4525 West Old 24
Wabash County, Indiana

MATERIALS RECEIVED:

Notice of Decision
Permit Letter
Agency Addressed Envelope

DATE RECEIVED/MADE AVAILABLE TO THE PUBLIC:

________________________________________

SIGNATURE OF RECEIVING PARTY:

________________________________________ Date:__________

PLEASE RETURN THIS VERIFICATION IN THE ENCLOSED STAMPED, SELF-ADDRESSED ENVELOPE.
What if you are not satisfied with this decision and you want to file an appeal?

Who may file an appeal?
The decision described in the accompanying Notice of Decision may be administratively appealed. Filing an appeal is formally known as filing a "Petition for Administrative Review" to request an "administrative hearing".

If you object to this decision issued by the Indiana Department of Environmental Management (IDEM) and are: 1) the person to whom the decision was directed, 2) a party specified by law as being eligible to appeal, or 3) aggrieved or adversely affected by the decision, you are entitled to file an appeal. (An aggrieved and adversely affected person is one who would be considered by the court to be negatively impacted by the decision. If you file an appeal because you feel that you are aggrieved, it will be up to you to demonstrate in your appeal how you are directly impacted in a negative way by the decision).

The Indiana Office of Environmental Adjudication (OEA) was established by state law – see Indiana Code (IC) 4-21.5-7 – and is a separate state agency independent of IDEM. The jurisdiction of the OEA is limited to the review of environmental pollution concerns or any alleged technical or legal deficiencies associated with the IDEM decision making process. Once your request has been received by OEA, your appeal may be considered by an Environmental Law Judge.

What is required of persons filing an appeal?
Filing an appeal is a legal proceeding, so it is suggested that you consult with an attorney. Your request for an appeal must include your name and address and identify your interest in the decision (or, if you are representing someone else, his or her name and address and their interest in the decision). In addition, please include a photocopy of the accompanying Notice of Decision or list the permit number and name of the applicant, or responsible party, in your letter.

Before a hearing is granted, you must identify the reason for the appeal request and the issues proposed for consideration at the hearing. You also must identify the permit terms and conditions that, in your judgment, would appropriately satisfy the requirements of law with respect to the IDEM decision being appealed. That is, you must suggest an alternative to the language in the permit (or other order, or decision) being appealed, and your suggested changes must be consistent with all applicable laws (See Indiana Code 13-15-6-2) and rules (See Title 315 of the Indiana Administrative Code, or 315 IAC).
The effective date of this agency action is stated on the accompanying Notice of Decision (or other IDEM decision notice). If you file a “Petition for Administrative Review” (appeal), you may wish to specifically request that the action be “stayed” (temporarily halted) because most appeals do not allow for an automatic “stay”. If, after an evidentiary hearing, a “stay” is granted, the IDEM-approved action may be halted altogether, or only allowed to continue in part, until a final decision has been made regarding the appeal. However, if the action is not “stayed” the IDEM-approved activity will be allowed to continue during the appeal process.

Where can you file an appeal?
If you wish to file an appeal, you must do so in writing. There are no standard forms to fill out and submit, so you must state your case in a letter (called a petition for administrative review) to the Indiana Office of Environmental Adjudication (OEA). Do not send the original copy of your appeal request to IDEM. Instead, send or deliver your letter to:

The Indiana Office of Environmental Adjudication
100 North Senate Avenue, Room N103
Indianapolis, IN 46204

If you file an appeal, also please send a copy of your appeal letter to the IDEM contact person identified in the Notice of Decision, and to the applicant (person receiving an IDEM permit, or other approval).

Your appeal (petition for administrative review) must be received by the Office of Environmental Adjudication in a timely manner. The due date for filing an appeal may be given, or the method for calculating it explained, on the accompanying Notice of Decision (NOD). Generally appeals must be filed within 18 days of the mailing date of the NOD. To ensure that you meet this filing requirement, your appeal request must be:
1) Delivered in person to OEA, by the close-of-business on the eighteenth day (if the 18th day falls on a day when the Office of Environmental Adjudication (OEA) is closed for the weekend or for a state holiday, then your petition will be accepted on the next business day on which OEA is open), or
2) Given to a private carrier who will deliver it to the OEA on your behalf, (and from whom you must obtain a receipt dated on or before the 18th day), or
3) For those appeal requests sent by U.S. Mail, your letter must be postmarked by no later than midnight of the 18th day, or
4) Faxed to the OEA at (317) 233-9372 before the close-of-business on the 18th day, provided that the original signed “Petition for Administrative Review” is also sent, or delivered, to the OEA in a timely manner.

What are the costs associated with filing an appeal?
The OEA does not charge a fee for filing documents for an administrative review or for the use of its hearing facilities. However, OEA does charge a fifteen cent ($.15) per page fee for copies of any documents you may request. Another cost that could be associated with Your appeal would be for attorney’s fees. Although you have the option to act as your own
Attorney, the administrative review and associated hearing are complex legal proceedings; therefore, you should consider whether your interests would be better represented by an experienced attorney.

**What can you expect from the Office of Environmental Adjudication (OEA) after you file for an appeal?**

The OEA will provide you with notice of any prehearing conference, preliminary hearings, hearings, "stays," or orders disposing of the review of this decision. In addition, you may contact the OEA by phone at (317) 233-0850 with any scheduling questions. However, technical questions should be directed to the IDEM contact person listed on the Notice of Decision.

Do not expect to discuss details of your case with OEA other than in a formal setting such as a prehearing conference, a formal hearing, or a settlement conference. The OEA is not allowed to discuss a case without all side being present. All parties to the proceeding are expected to appear at the initial prehearing conference.