

September 12, 2025

Mr. Chuck Sudwischer
Real Alloy Recycling, Inc.
1508 N 8th Street
Sapulpa, OK 74066

Re: Permit Renewal Application
Real Alloy Recycling, LLC
Class I Non-hazardous Injection Well
Creek County, Oklahoma
UIC Permit No. IW-NH-3519019-R1

Technical Completeness – Draft Permit

Dear Mr. Sudwischer:

On November 8, 2024, the Land Protection Division of the Department of Environmental Quality (DEQ) received the above-referenced Permit Renewal Application (Application) dated November 4, 2024, from E&E Engineering and Associates, LLC (E&E) on behalf of Real Alloy Recycling, LLC (Real Alloy). The Application is for the renewal of Real Alloy's Class I non-hazardous waste injection well permit for its facility located in Creek County, Oklahoma. In accordance with Oklahoma Administrative Code (OAC) 252:652-1-6, the required Application fee of \$500 was submitted with the Application. Real Alloy published the required notice of filing in *The Sapulpa Herald* on December 8, 2024, and submitted the affidavit of publication on January 6, 2025, pursuant to OAC 252:4-7-13.

DEQ reviewed the Application for administrative completeness in accordance with Title 40 of the Code of Federal Regulations (40 C.F.R.) Parts 144 and 146 and OAC 252:652. A Notice of Deficiency (NOD) was issued by DEQ in correspondence dated January 7, 2025. Real Alloy provided a Response to NOD on February 5, 2025, and DEQ determined the Application to be administratively complete on March 4, 2025, on which date a technical review began. DEQ reviewed the Application for technical adequacy in accordance with the applicable rules and regulations and issued a technical NOD on June 12, 2025, followed by Real Alloy's response on July 10, 2025. DEQ requested additional information in correspondence dated August 18, 2025, and Real Alloy submitted the requested information on August 25, 2025. After review, DEQ finds the Application to be technically complete.

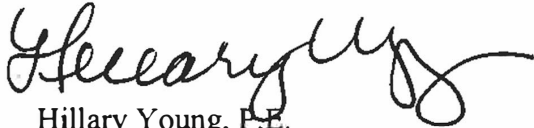
Enclosed is the Draft Operations Permit for public review and comment, which includes a fact sheet and language for public notice. If Real Alloy has comments on the draft permit, please provide them to DEQ within thirty (30) days of your receipt of this letter; otherwise,

Mr. Chuck Sudwischer
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please proceed with publishing the notice in one (1) newspaper local to the facility and notify DEQ of the publication date. Proof of publication must be submitted within twenty (20) days of the date of publication as required by OAC 252:4-7-13(d). Real Alloy must also mail a copy of the notice to all persons listed in 40 C.F.R § 124.10(c)(1), as applicable.

If you have any questions, please contact Brigitte Haley of my staff at 405-702-5104 or Brigitte.Haley@deq.ok.gov.

Sincerely,



Hillary Young, P.E.
Chief Engineer
Land Protection Division

cc: Deren M Ertugrul, P.E., Vice President, E&E Engineering and Associates, LLC

Enclosure: Draft Operations Permit, including a fact sheet and language for public notice

FACT SHEET
Real Alloy Recycling, LLC
Sapulpa, Oklahoma

The Oklahoma Department of Environmental Quality (DEQ) has tentatively approved a draft permit renewal for the Real Alloy Recycling, LLC (Real Alloy) Class I non-hazardous waste injection well facility located at 1508 North 8th Street, Sapulpa, Oklahoma. A permit renewal application was received on November 8, 2024. After a review by DEQ and the submittal of additional information, the application was determined to be administratively complete on March 4, 2025. DEQ reviewed the permit application for technical suitability and, after receiving additional information from the applicant, has determined the application to be technically complete and has issued a draft permit for public review and comment. The draft permit addresses the operation of one (1) Class I non-hazardous waste injection well. The injection well is located in the SW/4, NW/4, NE/4 of Section 26, Township 18 North, Range 11 East of the Indian Meridian in Creek County, Oklahoma.

Real Alloy operates a secondary aluminum smelting facility in Sapulpa, Oklahoma. The facility consists of two (2) rotary furnaces, one (1) reverb furnace, and associated support and air pollution control equipment. During the smelting process, the various types of aluminum scrap are charged to the furnace and melted. The facility also maintains an on-site closed non-hazardous industrial waste landfill. The leachate from the landfill, surface water run-off and process wastewater from the plant site is collected and conveyed to the leachate collection pond where it is stored, then transferred to the on-site injection well for disposal. The average quantity of wastes expected to be injected is approximately 79,000 gallons per day, when injecting.

DEQ has established permit conditions for compliance with regulatory requirements outlined in Title 40 of the Code of Federal Regulations (40 C.F.R.) Part 146 and Oklahoma Administrative Code 252:652. Permit conditions in Section A are specific to this facility and include the operating, monitoring, and reporting requirements found in 40 C.F.R. § 146.13. These conditions are required by 40 C.F.R. § 144.52. Permit conditions in Section B are required in all Underground Injection Control permits pursuant to 40 C.F.R. § 144.51.

The local contact for the injection well facility is:

Chuck Sudwischer
Plant Manager
Real Alloy Recycling, LLC
1508 N 8th Street
Sapulpa, OK 74066
(918) 224-4746

DEQ will not make a final decision on approving this permit until the public has had an opportunity to comment. Any person may request a public meeting to present written or oral statements and data concerning the draft permit. Comments may also be provided to DEQ at the address below and on DEQ's website at <https://oklahoma.gov/deq/permits/land-permits/permit-public-participation-process.html> for a period of thirty (30) days beginning from the date of the newspaper publication.

Hillary Young, P.E.
Chief Engineer
Land Protection Division
Oklahoma Department of Environmental Quality
P.O. Box 1677
Oklahoma City, Oklahoma 73101
Telephone: (405) 702-5100

NOTICE OF DRAFT UNDERGROUND INJECTION CONTROL PERMIT

The Oklahoma Department of Environmental Quality (DEQ) hereby gives NOTICE OF THE OPPORTUNITY FOR PUBLIC COMMENT ON A DRAFT PERMIT prepared after review of a renewal application filed by Real Alloy Recycling, LLC (Real Alloy) for a non-hazardous injection well facility located at 1508 North 8th Street, Sapulpa, Oklahoma. The injection well is located in the SW/4, NW/4, NE/4 of Section 26, Township 18 North, Range 11 East of the Indian Meridian, Creek County, Oklahoma.

The draft permit, if made final, would authorize Real Alloy to continue to operate a Class I facility for injection of on-site generated non-hazardous wastewaters. The purpose of the Class I injection well is to dispose of leachate from the on-site closed non-hazardous industrial waste landfill, as well as the surface water run-off and process wastewater from the plant site.

DEQ has tentatively found that the application meets the requirements of the Safe Drinking Water Act, Oklahoma Administrative Code 252:652, and applicable portions of Title 40 of the Code of Federal Regulations, incorporated therein by reference.

The draft permit may be reviewed during normal business hours at the following locations:

1. Bartlett-Carnegie Sapulpa Public Library, 27 W Dewey Ave, Sapulpa, OK 74066
2. Oklahoma Department of Environmental Quality, Central Records, located on the 2nd floor of the DEQ building at 707 N. Robinson, P.O. Box 1677, Oklahoma City, Oklahoma 73101. The contact person is:

Hillary Young, P.E.
Chief Engineer
Land Protection Division
Oklahoma Department of Environmental Quality
P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677
(405) 702-5100

It may also be viewed on DEQ's website at <https://oklahoma.gov/deq/permits/land-permits/permit-public-participation-process.html>.

Persons wishing to comment on the draft permit should submit their comments in writing to DEQ at the above address. Also, any person may request in writing a formal public meeting to present oral and written statements and data concerning the draft permit. A request for a public meeting must identify the nature of the issues to be raised in the meeting. If a public meeting is requested, DEQ will schedule the meeting and provide notice of the date, time, and place.

Written comments must be received by DEQ within thirty (30) days after the date of this publication at the DEQ address or website given above. More specific information may be obtained by contacting the applicant or DEQ contact listed above. The applicant contact person is:

Chuck Sudwischer
1508 N 8th Street
Sapulpa, Oklahoma 74066
(918) 224-4746

**OPERATIONS PERMIT
FOR AN
INJECTION WELL FACILITY**

**Real Alloy Recycling, LLC
P.O. Box 1070
Sapulpa, Oklahoma 74067**

**Permit Number: IW-NH-3519019-RI
Effective Date: xx/xx/2025
Expiration Date: xx/xx/2035**

Having complied with the requirements of the law, Real Alloy Recycling, LLC is hereby granted permission to operate, maintain, and monitor a Class I non-hazardous industrial waste injection well facility located at 1508 N. 8th Street, Sapulpa, Oklahoma 74066, in the SW/4, NW/4, NE/4 of Section 26, Township 18 North, Range 11 East of the Indian Meridian in Creek County, Oklahoma, specifically to inject non-hazardous wastes generated on-site.

The injection well facility includes Well Number 1, which is positioned at the following latitude and longitude:

Well No. 1 – latitude: 36 degrees, 00 minutes, 49.53 seconds, North
 longitude: 96 degrees, 06 minutes, 28.55 seconds, West

And other appurtenances as described in the permit application.

The disposal zone is defined as and limited to the strata of the Simpson and Arbuckle Groups or their geological equivalents. No injection shall be allowed into any stratum above the base of the Woodford (Chattanooga) Formation or its geological equivalent.

This permit is renewed by the Oklahoma Department of Environmental Quality (DEQ) pursuant to its authority under the Oklahoma Environmental Quality Act (27A O.S. § 1-1-101, et seq.), the Oklahoma Environmental Quality Code (27A O.S. § 2-1-101, et seq.), the federal Safe Drinking Water Act (42 U.S.C. § 300f) and rules promulgated thereunder at Title 40 of the Code of Federal Regulations (40 C.F.R.) Parts 144, 145, and 146 and the Oklahoma Administrative Code (OAC) 252:652.

Hillary Young, P.E., Chief Engineer
Land Protection Division

Kelly Dixon, Division Director
Land Protection Division

Preamble

The Permittee shall operate the facility in compliance with the terms and conditions of this permit, the provisions of the Environmental Quality Code, OAC 252:652 (effective July 1, 1998), the Safe Drinking Water Act, 40 C.F.R. Parts 144 and 146, and the approved permit application. The approved permit application, hereby incorporated by reference, for this permit consists of the original application dated November 4, 2024, and all subsequent submissions up to and including July 18, 2025. The provisions herein are severable. If any provision of this permit or its application to a given circumstance is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.

A. Conditions Specific to this Facility

1. **Maximum injection pressure and rate:** The applied surface injection pressure and flow rate shall be limited to:

<u>Well #</u>	<u>Pressure (psig)</u>	<u>Flow Rate (gpm)</u>
1	560	100

2. **Annulus pressure:** The annulus pressure shall be maintained above 10 psig with a program logic set-point added to the real-time monitoring of annulus pressure which will cause cessation of injection, and trigger investigative actions for possible mechanical integrity failure, if the annulus pressure exceeds 50 psig during an injection cycle.
3. **Continuous Monitoring:** The Permittee shall continuously monitor injection pressure, annulus pressure, and flow rate in accordance with 40 C.F.R. § 146.13(b)(2). Monitoring shall at a minimum be recorded on continuous recording devices, specifically strip/circular (paper) charts, at or near the wellhead. The injection flow rate shall be continuously monitored with a flowmeter and totalizer that is set in the injection line. Volume may be calculated from continuously monitored flow rate. All monitoring equipment shall be calibrated at least annually.
4. **Waste types:** Waste types are ammonia- and chloride-contaminated stormwater runoff, leachate and seepage from the landfill, and non-hazardous wastewater from the facility.
5. **Waste analysis:** Injectate shall be sampled at least monthly and analyzed for the following parameters: pH, ammonia-N, aluminum, cadmium, chlorides, lead, magnesium, nickel, nitrate, sulfate, specific gravity, iron, specific conductivity and total suspended solids. Results of the waste analyses, as well as all additional information required under 40 C.F.R. § 146.13(c)(1), shall be reported to DEQ in the Permittee's quarterly report.
6. **Groundwater monitoring:** The Permittee shall monitor groundwater in one (1) deep monitor well. A representative sample of groundwater shall be taken from the well monthly or as required by DEQ and analyzed for the following parameters: pH, ammonia-N, cadmium, chlorides, lead, magnesium, and nickel. Static water level shall be measured and recorded in

the monitoring well prior to acquisition of samples. Results of all groundwater static water levels and analyses shall be submitted with the operator's quarterly report.

7. **Well testing:** Every six (6) months, or more frequently if necessary, the annulus of each injection well shall be tested by pressurizing the annulus to a minimum of 300 pounds per square inch or one hundred twenty-five percent (125%) of the highest operating annulus pressure, whichever is greater, for a period of two (2) hours. Pressure loss or gain exceeding -5% or + 10%, respectively, from the initial test pressure will require additional tests and/or immediate repairs to ensure the mechanical integrity of the well.
8. **Annual fall-off test:** The permittee shall conduct annual monitoring of the pressure buildup in the injection zone including, at a minimum, a shut-down of the well for a time sufficient to conduct a valid observation of the pressure fall-off curve (40 C.F.R. § 146.13(d)). The permittee shall submit a report of the pressure fall-off test to DEQ within thirty (30) days of conducting the test. The report shall include a comparison of the calculated reservoir parameters with the parameters presented in the permit application.
9. **Other reporting:** The permittee shall submit a report including test data, logs (where applicable), and expert interpretation thereof within thirty (30) days after completion of any of the following tests:
 - a. Mechanical integrity tests;
 - b. Workovers; or
 - c. Any other test of the injection well(s) or injection zone.
10. **Retention of records:** If the Permittee elects not to retain records concerning the nature and composition of all injected fluids after the required three-year retention period, the Permittee may transfer them to DEQ. 40 C.F.R. § 144.51(j)(2)(ii).
11. **Financial Assurance:** The Permittee must adjust the plugging and abandonment cost estimate for inflation within thirty (30) days after each anniversary of the date on which the first plugging and abandonment cost estimate was prepared. 40 C.F.R. § 144.62(b) and OAC 252:652-5-1(7).
12. **Plugging and Abandonment:** The Permittee is required to follow the requirements of OAC 252:652-5-1(5) and 40 C.F.R. § 146.10 for plugging and abandonment.
13. **Prohibition of Injection of Hazardous Waste:** The Permittee is prohibited from injecting hazardous waste as defined in 40 C.F.R. § 261.3.
14. **Mechanical Integrity:** The Permittee shall complete a demonstration of mechanical integrity as defined in 40 C.F.R. § 146.8 pursuant to 40 C.F.R. § 146.13(b)(3) at least once every five years during the life of the well.

B. Federal Conditions Common to All UIC Permits

As required by 40 C.F.R. § 144.51 and adopted by OAC 252:652-1-3, the following conditions apply to all UIC permits.

- 1. Duty to comply:** The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Safe Drinking Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application; except that the permittee need not comply with the provisions of this permit to the extent and for the duration such noncompliance is authorized in an emergency permit under 40 C.F.R. § 144.34.
- 2. Duty to reapply:** If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for new permit prior to the expiration date of the current permit.
- 3. Need to halt or reduce activity not a defense.** It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- 4. Duty to mitigate:** The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.
- 5. Proper operation and maintenance:** The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit.
- 6. Permit actions:** This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- 7. Property rights:** This permit does not convey any property rights of any sort, or any exclusive privilege.
- 8. Duty to provide information:** The permittee shall furnish to DEQ, within a time specified, any information which DEQ may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to DEQ, upon request, copies of records required to be kept by this permit.

- 9. Inspection and entry:** The permittee shall allow DEQ, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:
- a. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
 - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
 - d. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the SDWA, any substances or parameters at any location.

10. Monitoring and records:

- a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
- b. The permittee shall retain records of all monitoring information, including the following:
 - i. Calibration and maintenance records and all original strip/circular (paper) chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report, or application. This period may be extended by the request of DEQ at any time; and
 - ii. The nature and composition of all injected fluids until three (3) years after the completion of any plugging and abandonment procedures specified under 40 C.F.R. § 144.52(a)(6), or under 40 C.F.R. Part 146 subpart G as appropriate. DEQ may require the owner or operator to deliver the records to DEQ at the conclusion of the retention period.
- c. Records of monitoring information shall include:
 - i. The date, exact place, and time of sampling or measurements;
 - ii. The individual(s) who performed the sampling or measurements;
 - iii. The date(s) analyses were performed;
 - iv. The individual(s) who performed the analyses;
 - v. The analytical techniques or methods used; and
 - vi. The results of such analyses.

- 11. Signatory requirement:** All applications, reports, or information submitted to DEQ shall be signed and certified in accordance with 40 C.F.R. § 144.32.

12. Reporting requirements:

- a. Planned changes. The permittee shall give notice to DEQ as soon as possible of any planned physical alterations or additions to the permitted facility.

- b. Anticipated noncompliance. The permittee shall give advance notice to DEQ of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- c. Transfers. This permit is not transferable to any person except after notice to DEQ. DEQ may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Safe Drinking Water Act. In some cases, modification or revocation and reissuance is mandatory. 40 C.F.R. § 144.38.
- d. Monitoring reports. Monitoring results shall be reported at the intervals specified in this permit.
- e. Compliance schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than thirty (30) days following each schedule date.
- f. Twenty-four hour reporting. The permittee shall report any noncompliance which may endanger health or the environment, including:
 - i. Any monitoring or other information which indicates that any contaminant may cause an endangerment to an underground source of drinking water (USDW); or
 - ii. Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between USDWs.

Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
- g. Other noncompliance. The permittee shall report all instances of noncompliance not reported under paragraphs 12(d), (e), and (f) of this section, at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph (12)(f) of this section.
- h. Other information. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to DEQ, it shall promptly submit such facts or information.

13. Duty to notify: The permittee shall notify DEQ at such times as the permit requires before conversion or abandonment of the well or in the case of area permits, defined in 40 C.F.R. § 144.33, before closure of the project.

14. A Class I, II, or III permit shall include, and a Class V permit may include: conditions which meet the applicable requirements of 40 C.F.R. § 146.10 to ensure that plugging and abandonment of the well will not allow the movement of fluids into or between USDWs. Where the plan meets the requirements of 40 C.F.R. § 146.10, DEQ shall incorporate it

into the permit as a permit condition. Where DEQ's review of an application indicates that the permittee's plan is inadequate, DEQ may require the applicant to revise the plan, prescribe conditions meeting the requirements of this paragraph, or deny the permit. For purposes of this paragraph, temporary or intermittent cessation of injection operations is not abandonment.

15. Plugging and abandonment report: within sixty (60) days after plugging a well or at the time of the next quarterly report (whichever is less) the owner or operator shall submit a report to DEQ. If the quarterly report is due less than fifteen (15) days before completion of plugging, then the report shall be submitted within sixty (60) days. The report shall be certified as accurate by the person who performed the plugging operation. Such report shall consist of either:

- a. A statement that the well was plugged in accordance with the plan previously submitted to DEQ; or
- b. Where actual plugging differed from the plan previously submitted, an updated version of the plan on the form supplied by DEQ, specifying differences.

16. Duty to establish and maintain mechanical integrity:

- a. The owner or operator of a Class I, II, or III well permitted under this part shall establish, prior to commencing injection or on a schedule determined by DEQ, and thereafter maintain mechanical integrity as defined in 40 C.F.R. § 146.8. DEQ may require by written notice that the owner or operator comply with a schedule describing when mechanical integrity demonstrations shall be made.
- b. When DEQ determines that a Class I, II, or III well lacks mechanical integrity pursuant to 40 C.F.R. § 146.8 of this chapter, he shall give written notice of his determination to the owner or operator. Unless DEQ requires immediate cessation, the owner or operator shall cease injection into the well within 48 hours of receipt of DEQ's determination. DEQ may allow plugging of the well pursuant to the requirements of 40 C.F.R. § 146.10 or require the permittee to perform such additional construction, operation, monitoring, reporting and corrective action as is necessary to prevent the movement of fluid into or between USDWs caused by the lack of mechanical integrity. The owner or operator may resume injection upon written notification from DEQ that the owner or operator has demonstrated mechanical integrity pursuant to 40 C.F.R. § 146.8.
- c. DEQ may allow the owner or operator of a well which lacks mechanical integrity pursuant to 40 C.F.R. § 146.8(a)(1) to continue or resume injection if the owner or operator has made a satisfactory demonstration that there is no movement of fluid into or between USDWs.