AHWMA PERMIT DRAFT ADMINISTRATIVE RECORD PAGE-TROWBRIDGE RANCH LANDFILL UNIVERSITY OF ARIZONA (UA) AZD 980 665 814 VOLUME 1

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Arizona Department of Environmental Quality



FINAL ADMINISTRATIVE RECORD UNIVERSITY OF ARIZONA, PAGE-TROWBRIDGE RANCH LANDFILL AZD 980 665 814 HAZARDOUS WASTE MANAGEMENT FACILITY POST-CLOSURE CARE PERMIT RENEWAL

Pursuant to the A.A.C. R18-8-271.I (D)(1)(vii), a copy of the Arizona Hazardous Waste Management Act (AHWMA) and federal Resource Conservation and Recovery Act (RCRA) permit application, draft permit, and additional relevant documents must be made available for public review during the public comment period for the above-referenced facility. This collection of documents will be hereinafter referred to as the "Administrative Record."

The complete Administrative Record includes documents in the University of Arizona, Page-Trowbridge Ranch Landfill correspondence files in Arizona Department of Environmental Quality's (ADEQ's) Records Center, as well as numerous other documents generally available to the public through ADEQ or the United States Environmental Protection Agency (U.S. EPA). These documents are either attached (see Section I of this memo) or incorporated by reference (see Section II of this memo).

I. ATTACHED MATERIAL

The information below is either contained in Volume I (relevant information), Volume II (permit application) or Volume III (draft permit):

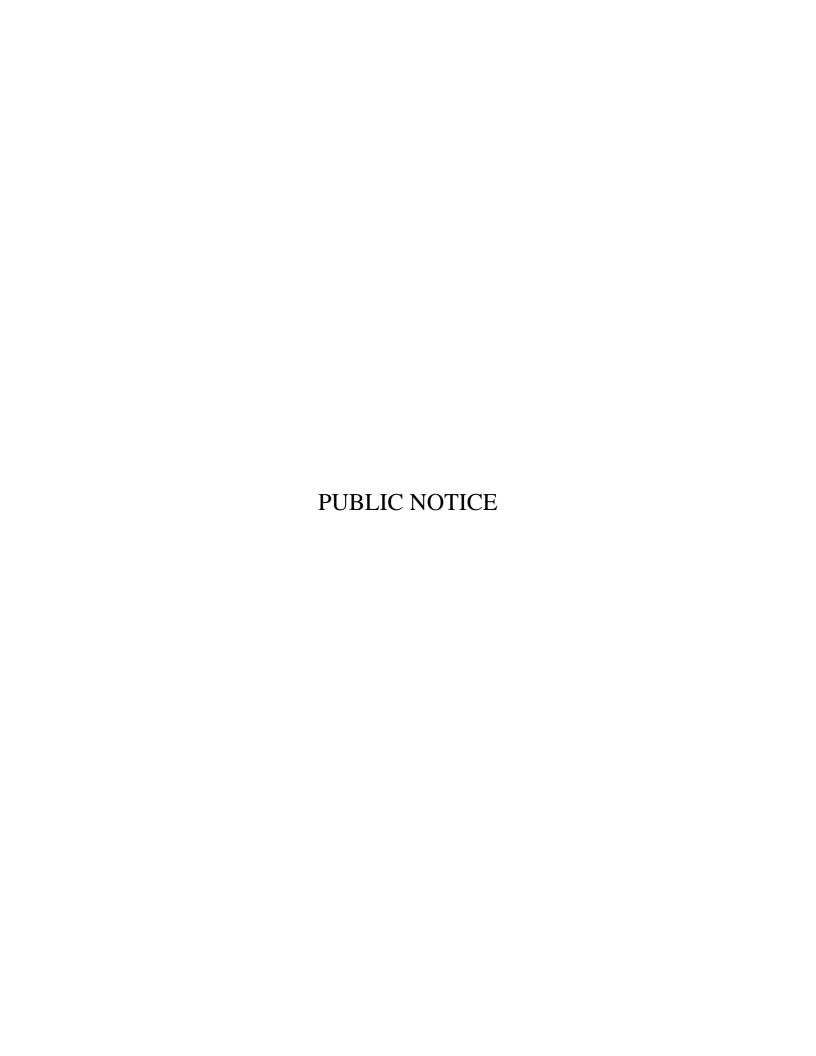
- 1. Volume I: This memorandum. It includes important portions of the Administrative Record. The complete Administrative Record may be found at the ADEQ Records Center Office, 1110 West Washington Street, Phoenix, Arizona; Monday through Friday from 8:30 a.m. to 4:30 p.m., excluding state holidays. To arrange an appointment to review this record at ADEQ, contact the ADEQ Records Center at (602) 771-4380 or email recordscenter@azdeq.gov.
- 2. Volume I: Public Notice of the Draft Permit Renewal
- 3. Volume I: Fact Sheet for the Draft Permit
- 4. Volume I: Inspection Reports
 - a. 2019 Inspection Report
 - b. 2020 Inspection Report
 - c. 2021 Inspection Report

(520) 628-6733

- d. 2021 Response to Deficiencies Noted During Inspection
- 5. Volume I: Mailing List
- 6. Volume I: Correspondence Log
 - a. Letter dated December 17, 2021 from ADEQ to UA "Request for Additional Information; Administratively Incomplete Application"
 - b. Email dated January 5, 2022 from UA to ADEQ "Response to Request for Additional Information"
 - c. Letter dated January 5, 2022 from ADEQ to UA "Administratively Complete Application"
 - d. Letter dated February 17, 2022 from ADEQ to UA "Substantive Notice of Deficiency"
 - e. Email dated March 2, 2022 from UA to ADEQ "Discussion on Substantive Notice of Deficiency"
 - f. Letter dated March 21, 2022 from UA to ADEQ "Response to Notice of Deficiency"
- 7. Volume I: Notifications to the City of Tucson and Pinal County
- 8. Volume I: Groundwater Monitoring Reports 2019 to 2021 (available online at https://azdeq.gov/node/6662 or by request)
- 9. Volume I: Response to Comments
- 10. Volume II: University of Arizona, Page-Trowbridge Ranch Landfill AHWMA Hazardous Waste Permit Application
- 11. Volume III: University of Arizona, Page-Trowbridge Ranch Landfill Final AHWMA Hazardous Waste Permit
- II. MATERIAL INCORPORATED BY REFERENCE (MAY INCLUDE MATERIAL READILY AVAILABLE AT ADEQ OR PUBLISHED MATERIAL GENERALLY AVAILABLE AT A LIBRARY OR OTHER SOURCE):
- 1. Complete Administrative Record These records may be viewed at ADEQ Records Management, 1110 West Washington Street, Phoenix, Arizona, Monday Friday from 8:30 a.m. 4:30 p.m., (excluding state holidays).
- 2. Arizona Administrative Code, Title 18, Chapter 8, Article 2, A.A.C. R18-8-260 et seq. (Supp 12-2 dated June 30, 2012) with a copy provided in Volume 3, draft Permit Attachment I.
- 3. Title 40 Code of Federal Regulations (40 CFR) Parts 260 et. Seq (July 1, 2006 edition).
- 4. Additional documents used in developing the Draft Permit:

- Completed ADEQ Character/Background Reference Check Forms (in ADEQ HWPU Confidential file) for: Miguel Delgado, Jeffrey Christensen, Joe Divijak, and Herbert Wagner. These are the Emergency Coordinators.
- "ADEQ Hazardous Waste Section Quality Assurance Program Plan (Final)," ADEQ, January 12, 2015.
- "Model RCRA Permit for Hazardous Waste Management Facilities (Draft)," U.S. EPA, September 1998.
- Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities NIOSH/OSHA/USCG/EPA-DHHS No. 85-115.
- "RCRA Public Participation Manual," U.S. EPA, EPA530-R-16-013, 2016.
- EPA/530-SW-84-004 "Permit Applicants' Guidance Manual for Hazardous Waste Land Treatment, Storage, and Disposal Facilities Final Draft"
- Other EPA or technical guidance can be made available by request to the site contact below.

For additional resources or clarification on any items, please reach out to Gav Orman at 602-771-8727 or by email at orman.gav@azdeq.gov.





PUBLIC NOTICE

DRAFT POST-CLOSURE HAZARDOUS WASTE PERMIT UNIVERSITY OF ARIZONA PAGE-TROWBRIDGE RANCH LANDFILL ORACLE/ORACLE JUNCTION, PINAL COUNTY ARIZONA

The Arizona Department of Environmental Quality (ADEQ) has prepared a draft Post-Closure Hazardous Waste Permit (Draft Permit) for University of Arizona's (UA) Page-Trowbridge Ranch Landfill (PTRL). The Draft Permit requires UA to perform post-closure care at PTRL located north of Highway 77, approximately three miles east of Oracle Junction, seven miles west of Oracle, and 30 miles north of Tucson. This notice announces the 45-day public comment period for the Draft Permit beginning **April 25, 2022** and ending **June 9, 2022**.

The PTRL occupies 3.25 acres and consists of two closed units: Unit A (200 ft by 200 ft) and Unit B (200 ft by 500 ft). Individual cells within the units were approximately 15 ft deep. PTRL was formally used to dispose of chemical waste and low-level radioactive material generated at the UA, Northern Arizona University, Arizona State University, and the Veterans Hospital in Tucson. Chemical wastes largely consisted of solvents, ignitable compounds, acids, bases, heavy metals, and pesticides. The PTRL operated from the early 1960s through 1986 and was closed in 1997.

As part of the closure activities, a final cover system with layers of clay, earth, geo-membrane, and vegetative grass, was constructed over each unit to prevent exposure to stormwater. Culverts and stormwater channels were installed to divert water from the site. The PTRL is surrounded by a six-foot high chain-link fence topped with barbed wire for security. Groundwater and soil vapor are routinely sampled to detect any releases from the PTRL. The Draft Permit renewal will allow UA to continue performing post-closure inspections, maintenance, and semi-annual groundwater and soil vapor monitoring at the PTRL. These actions are in accordance with Arizona rules established to protect human health and the environment. Once issued, the Post-Closure Permit would be effective for another ten years.

A copy of the Fact Sheet is available alongside the Draft Permit by visiting the ADEQ Public Notice Calendar at https://azdeq.gov/notices and searching for the keyword "Page-Trowbridge" or by selecting the start date for the public comment period. The last three years of monitoring reports are available at the ADEQ *My Community* webpage for PTRL at https://azdeq.gov/pt-ranch-landfill. The complete administrative record is available by contacting the site contact below.

A hard copy of the administrative record containing the permit application, Draft Permit, and inspection reports may be viewed at the ADEQ Phoenix office from 8:30 a.m. to 4:00 p.m., Monday through Friday (excluding state holidays). To arrange an appointment to review this record at ADEQ, contact the ADEQ Records Center at (602) 771-4380.

ADEQ invites all interested parties to submit written comments concerning the Draft Permit. All comments must be submitted to ADEQ and post-marked by the close of the public comment period, June 9, 2022. Submit your comments to:

Gav Orman, Hazardous Waste Permit Writer ADEQ – Hazardous Waste Permits and Support Unit 1110 West Washington St., Phoenix, AZ 85007

Phone: (602) 771-8727

Email: hazwastepermits@azdeq.gov

In addition to submitting public comments, any person may request the ADEQ Director to schedule a public hearing. Written requests for a public hearing must be submitted to ADEQ by no later than June 9, 2022, and must state the nature of the proposed issues to raise in the hearing. The Director will hold such a hearing if: 1) they find, on the basis of requests, a significant degree of public interest in the Draft Permit, or 2) they find that the hearing might clarify any issues involved in the permit decision, or 3) a formal written notice of opposition to the Draft Permit is received within the comment period.

Please share this notice with anyone who may be interested in the Draft Permit.



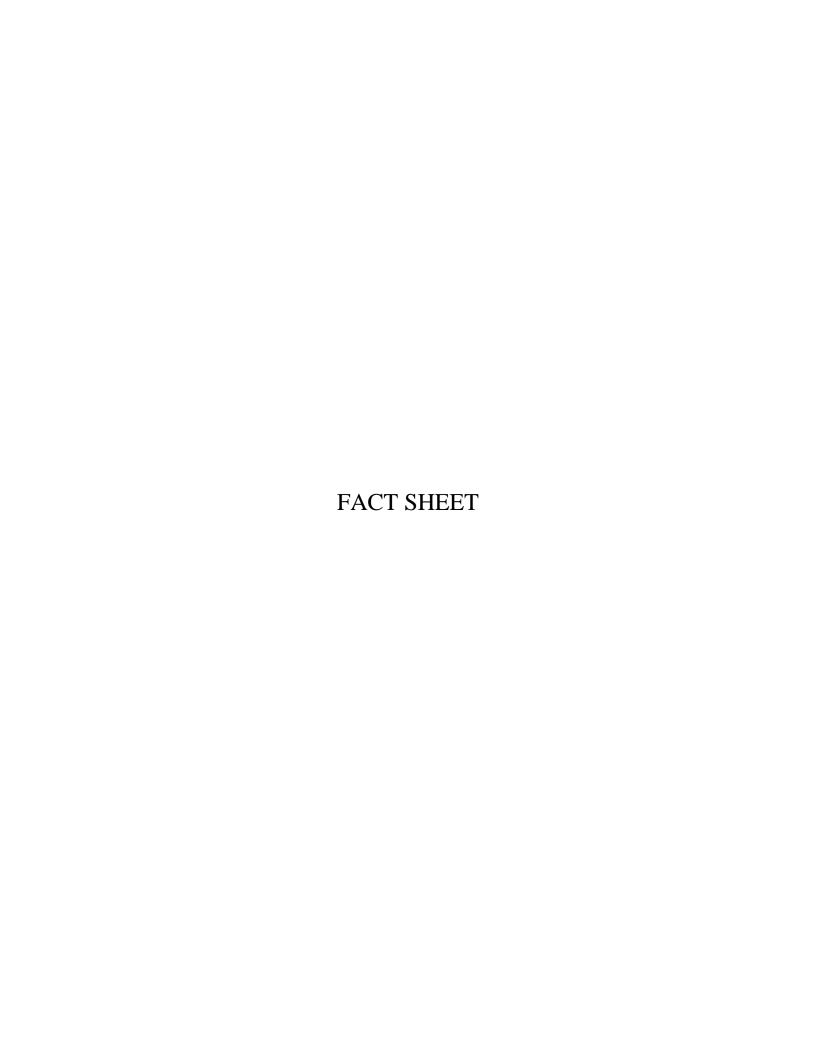
Figure 1: Location of PTRL



ADEQ will take reasonable measures to provide access to department services to individuals with limited ability to speak, write or understand English and/or to those with disabilities. Requests for language interpretation, ASL interpretation, CART captioning services or disability accommodations must be made at least 48 hours in advance by contacting Len Drago, Title VI Nondiscrimination Coordinator at 602-771-2288 or Drago.Leonard@azdeq.gov. Teleprinter services are available by calling 7-1-1 at least 48 hours in advance to make necessary arrangements.

ADEQ tomará las medidas razonables para proveer acceso a los servicios del departamento a personas con capacidad limitada para hablar, escribir o entender inglés y / o para personas con discapacidades. Las solicitudes de servicios de interpretación de idiomas, interpretación ASL, subtitulados de CART, o adaptaciones por discapacidad deben realizarse con al menos 48 horas de anticipación contactando a Ian Bingham, Coordinador de Anti-Discriminación del Título VI al 602-771-2288 o Drago.Leonard@azdeq.gov. Los servicios de teleimpresores están disponibles llamando al 7-1-1 con al menos 48 horas de anticipación para hacer los arreglos necesarios.







FACT SHEET

DRAFT PERMIT RENEWAL FOR POST-CLOSURE CARE PAGE-TROWBRIDGE RANCH LANDFILL, UNINVERSITY OF ARIZONA ORACLE/ORACLE JUNCTION AREA PINAL COUNTY, ARIZONA EPA ID. NO. AZD 980 665 814

This fact sheet was prepared in accordance with Arizona Administrative Code (A.A.C) R18-8-271.E(e) and R18-8-271.G. A fact sheet must accompany every Arizona Hazardous Waste Management Act (AHWMA) draft permit that the Arizona Department of Environmental Quality (ADEQ) has prepared. All references to the A.A.C. hereafter refer to the A.A.C. R18-8-260 et. seq., made effective on December 30, 2020, which incorporates and/or modifies parts of Title 40 Code of Federal Regulations (CFR) Parts 260 et. seq.

ADEQ has prepared a draft AHWMA Permit (Draft Permit) for the University of Arizona's (UA) post-closure care of the Page-Trowbridge Ranch Landfill (PTRL). This Draft Permit allows UA to continue post-closure care for PTRL located north of Highway 77, approximately seven miles west of Oracle, and 30 miles north of Tucson.

FACILITY OVERVIEW

PTRL's site location map is shown in Figure 1. The PTRL is located in Township 9 South, Range 14 East, Gila and Salt River Base and Meridian, and includes the southern half of Section 27 and the northern half of Section 34. Land to the north and northeast of the PTRL is owned by the State of Arizona and is used as open range grazing land. Land to the north, northwest, and east is owned by UA and used for agricultural research. Property to the southwest, south, and southeast is owned by Robson Ranch Mountains, L.L.C., for residential development. There are currently 1,165 homes and a clubhouse constructed in the Saddlebrooke Ranch Community.

The PTRL occupies a total of 3.25 acres and consists of two units: Unit A (northern unit, 200 ft by 200 ft) and Unit B (southern unit, 200 ft wide by 500 ft long) as shown in Figure 2. The individual cells within the units were approximately 15 ft deep. PTRL was formally used to dispose of chemical waste and low-level radioactive material generated at UA, Northern Arizona University, Arizona State University, and the Veterans Hospital in Tucson from the early 1960s to 1986. Chemical wastes primarily consisted of solvents, ignitable materials, acids, bases, heavy metals, and pesticides. The PTRL was closed in 1997 after the installation of a final cover system.

The final cover system was constructed over each unit to prevent percolation through the landfill and includes a final earthen cover that supports native vegetation. PTRL is surrounded by a six-foot tall chain-link fence topped with barbed wire for security. Culverts and stormwater channels were installed to divert water from the surface of the landfill. PTRL is not located in a 100-year flood plain nor in a seismic area.



A solar-powered soil vapor extraction (SVE) system was installed at PTRL and has been operating since June 2006 between Unit A and B (Figure 2). The SVE system includes a network of soil vapor monitoring points that can detect potential releases from the landfill units. If a release is detected by the SVE system, actions will be taken in advance of any contaminant reaching groundwater (found approximately 645 ft below ground surface (bgs)). Soil vapor is extracted from one well (SGS-Well) at a rate of approximately 85 ft³/min and at a depth of 98 to 255 ft bgs. The extracted soil vapor is then directed through an activated carbon treatment system to remove volatile organic compounds (VOCs). The activated carbon treatment system consists of two, 2,000-pound units. The system is monitored weekly to ensure proper operation and samples are taken monthly to check for breakthrough of the activated carbon. These samples are used to determine when the activated carbon needs to be replaced and to monitor the mass removal VOCs from the subsurface. Simultaneously, ambient air is injected into the soil through another well (SGD-Well) at a rate of approximately 40 ft³/min and at a depth of 435 to 605 ft bgs. The SVE system is shown in Figure 3.

In addition to the soil vapor wells (SGS-Well and SGD-Well), there are four soil vapor monitoring points used to monitor VOCs. These points (SGS-SP, SGD-SP, SGD-MP, and SGD-DP) monitor soil vapor at depths from 76 to 600 ft bgs. Additionally, PTRL has four active groundwater wells used to monitor chemical and radionuclide contaminates (MW-2, MW-3, MW-4, and MW-5). The groundwater monitoring wells reach a depth of approximately 800 ft bgs. For sample collection, a submersible pump is installed in each groundwater well, with power supplied by a generator during sampling. MW-2 and MW-5 are also utilized for soil vapor monitoring with monitoring points that extend to the groundwater table via inflatable packers. The groundwater monitoring wells and soil vapor monitoring points are within the fenced enclosure surrounding the PTRL and have protective steel casings with locking well head covers (Figure 4). A well construction drawing of MW-2 is shown in Figure 5. Groundwater and soil vapor monitoring is conducted semi-annually.

PTRL periodically generates waste in the form of granular activated carbon that is removed from the SVE treatment vessels. This carbon is sent off-site for regeneration. Condensate from the SVE system is managed appropriately in accordance with applicable regulations.

BRIEF SITE HISTORY

In 1962, UA began disposing of low-level radioactive waste in Unit B after receiving and maintaining approval from the Arizona Atomic Energy Commission. Mixed waste, containing hazardous chemical and low-level radioactive waste, was disposed in Unit B starting in the late 1960s until 1986. Unit B was initially used as an open neutralization and burn pit, but was subsequently used to bury 1- and 5-gallon containers (bottles, cans, boxes, and bags) and 55-gallon drums (lab packs) in unlined cells. The quantity of waste disposed in Unit B prior to 1978 is unknown because recordkeeping did not start until then.

In 1982, Unit A was designed and constructed for hazardous chemical waste disposal only in accordance with Resource Conservation and Recovery Act (RCRA) standards at the time. Unit A was used to dispose of plastic liner sealed 55-gallon drums (DOT 17C) in cells lined with a chemically resistant synthetic liner until 1986. The quantity of materials disposed at PTRL



decreased in mid-1983 due to the construction of incineration and neutralization facilities at UA, meaning that less than half of Unit A's capacity was utilized. Based on manifests and UA disposal records, 280 tons of hazardous waste were disposed in Unit A and Unit B between the late 1960s and 1986. An additional 312 tons of radioactive wastes were disposed of in Unit B between 1962 and 1986. This inventory does not include any undocumented radioactive or chemical wastes. No waste has been disposed on-site since 1986.

PTRL was closed in 1997. Closure activities included the construction of a final cover over both units, security fencing, and stormwater run-on and run-off controls. In December 1997, UA submitted their first post-closure application to ADEQ. ADEQ issued the final post-closure permit for UA under RCRA and AHWMA in November 2001.

The first four groundwater monitoring wells (MW-2, MW-3, MW-4, and MW-1) were installed in 1984 and 1985. MW-1 was replaced by MW-5 in 1990. These wells have shown that groundwater predominately flows southwest, with the groundwater table located approximately 645 ft bgs. Groundwater sampling began in November 1984 and has continued to the present day. This monitoring has not indicated the presence of organic or inorganic contaminants in groundwater.

Soil vapor surveys at PTRL were performed in 1988, 1994, 2003, and 2007 to assess contaminant migration potential. These surveys found that VOCs were present in the pore space immediately surrounding the landfill. However, VOC concentrations decrease substantially with increased distance from the landfill units. VOCs are present in shallow soils with higher concentrations found along the western and southern perimeter of the landfill. VOCs were not detected in soil samples deeper than 140 ft bgs and no analytes have been detected deeper than 190 ft bgs.

In June 2006, the SVE system was installed as a corrective action interim measure. The SVE system continues to operate and monitor VOC removal from the subsurface. Sampling from SVE monitoring wells and the system indicates that VOC concentrations are decreasing with time. A human health risk assessment was conducted in 2009. This assessment included a registered well survey, analysis of the risk of contaminate migration based on quantitative risk characterization, and developed a human health risk exposure model for PTRL. The results of this assessment show that the contamination at PTRL does not pose a non-carcinogenic nor an unacceptable cancer risk to people at or around the landfill site. The assessment recommended the continuation of on-site monitoring for soil vapor and groundwater. In July 2011, UA submitted their renewal post-closure permit application, and ADEQ issued the current final post-closure permit in June 2012.

PTRL is currently undergoing the renewal of the Permit in accordance with A.A.C R18-8-264.A (40 CFR §264.117) and A.A.C R18-8-270.A (40 CFR §270.50), but remains under the existing Permit's purview pending the renewal's issuance.



PERMIT DESCRIPTION AND STATEMENT OF BASIS

The Draft Permit prepared by ADEQ consists of four parts (I through IV) and nine attachments (A through I). The Draft Permit requires UA to maintain the PTRL for up to 30 years, or until it is demonstrated that the hazardous waste is removed from the site and that conditions at and surrounding the site are protective of human health and the environment. UA submitted the initial renewal permit application in December 2021.

Part I of the permit contains general permit conditions. These conditions include definitions, permit actions, duties and requirements, confidentiality, document maintenance, and modifications. These conditions are required by A.A.C R18-8-270.A (40 CFR §270.30 and 40 CFR §270.32).

Part II of the permit contains general, post-closure facility conditions. These conditions include maintenance and operation, security, general inspections, contingency plan, recordkeeping and reporting, and any schedules of compliance that may be required. These permit conditions are required by A.A.C R18-8-264.A (40 CFR §264), R18-8-270.A (40 CFR §270), the omnibus requirements of R18-8-270.A and N (40 CFR §270.32(b)) (Omnibus), and R18-8-270.A (40 CFR §270.33) (Schedule of Compliance or SOC). The permit contains four SOC permit conditions:

- Within thirty days (30) of permit issuance, UA must submit a scope of work and project timeline to update the PTRL's Human Health Risk Assessment (HHRA Project) as a Class 1 Permit Modification Request requiring Director Approval.
- Within thirty days (30) of approval of the scope of work and project timeline, UA must submit the HHRA Project's workplans and methods for ADEQ's review and approval as a Class 1 Permit Modification requiring Director approval.
- Within ninety days (90) of completion of the HHRA project work, UA must submit a draft HHRA report for ADEQ's review and approval as a Class 1 Permit Modification requiring Director approval.
- Within fourteen days (14) of approval of the draft HHRA report, UA must submit a final, certified, HHRA report.

Part III of the permit contains specific conditions for groundwater and soil vapor monitoring. These conditions include the detection monitoring plan, well locations, groundwater and soil vapor sampling and analysis, and reporting and recordkeeping. These conditions are authorized by A.A.C R18-8-264.A (40 CFR Subpart F). Generally, the monitoring requirements include:

 Groundwater samples will be collected from four on-site groundwater monitoring wells, semi-annually, and analyzed for VOCs (EPA Method 524.2 and 504.1), sVOCs (EPA Method 8270C), organochlorine pesticides (EPA Method 8081), and inorganic constituents, Manganese and Sodium (EPA Method 200.7), Chloride and Sulfate (EPA



Method 300.0). Samples will also be analyzed for radionuclides including gross alpha (EPA Method 900.0), tritium and carbon (EPA Method 906).

- Soil vapor samples will be collected from six on-site soil vapor monitoring points and two retrofitted groundwater monitoring wells, semi-annually and analyzed for VOCs (TO-15). When the SVE system is operating, samples will be collected monthly to monitor performance.
- Additionally, field measurements will include depth to groundwater, pH, temperature, specific conductance, and visual appearance for groundwater.
- Quality control methods include field duplicates, field blanks, and trip blanks for
 groundwater and soil vapor. If an exceedance of the alert levels (as stated in the detection
 monitoring plan) occurs, actions may include resampling, increased monitoring
 frequency, and analysis of statistical significance. If the exceedance is valid, UA will
 submit a permit modification to establish a compliance monitoring program.

Part IV of the permit contains conditions regarding corrective action. Particularly, the conditions include discussion of past corrective action projects and general conditions that may apply in the future. Corrective action is authorized by Arizona Revised Statues (A.R.S) §49-922.B and Section 3004(u) of RCRA, as amended by the Hazardous and Solid Waste Amendments. Regulatory basis for corrective action can be found in A.A.C R18-8-264.A (40 CFR Subpart F) and via Omnibus conditions.

The above permit parts refer to the following permit attachments:

- Attachment A Facility Description
- Attachment B Post-Closure Plan
- Attachment C Procedures to Prevent Hazards
- Attachment D Contingency Plan
- Attachment E Soil Vapor Extraction Operation and Maintenance
- Attachment F Groundwater and Soil Vapor Monitoring
- Attachment G Quality Assurance Project Plan
- Attachment H CASOC Approved Workplans, Reports [Reserved]
- Attachment I Arizona Administrative Code

The term of the permit is ten (10) years. After 10 years, UA may submit a renewal permit application to continue post-closure care of PTRL.

APPLICANT REQUESTED VARIANCES

No variances have been requested by the applicant.

PUBLIC PARTICIPATION AND PROCEDURES FOR REACHING FINAL DECISION

The administrative record for the Draft Permit contains the permit application, Draft Permit, and adjacent data and information (such as inspection reports). The last three years of monitoring



reports are available for public review on the ADEQ *My Community* page for PTRL at https://www.azdeq.gov/node/4901. A copy of the complete administrative record is available for public review Monday through Friday (excluding state holidays) from 8:30 a.m. to 4:30 p.m. at:

Arizona Department of Environmental Quality Records Management Center 1110 West Washington Street, 1st Floor Phoenix, Arizona 85007 To make an appointment call: (602) 771-4380 or visit http://www.azdeq.gov/records-center

The Draft Permit and supporting documents can be viewed during the public comment period, found on the Public Notice Calendar at http://www.azdeq.gov/notices using keyword search "Page-Trowbridge" or by selecting the start date for the public comment period.

As required by A.A.C R18-8-271(L) and 40 CFR §124.13, all persons, including applicants, who believe any condition of the Draft Permit or that the tentative decision to prepare and issue this Draft Permit is inappropriate, must raise all reasonable issues and submit all reasonably available arguments and supporting materials by the close of the public comment period. All comments submitted during the public comment period shall discuss and be relevant to the appropriateness of the Draft Permit and the conditions contained within.

The 45-day public comment period commences on April 25, 2022. During the public comment period, any interested person may submit written comments on the Draft Permit (via mail or e-mail). These comments and any supporting materials must be submitted to ADEQ by the last day of the public comment period, **June 9, 2022**, at:

Arizona Department of Environmental Quality Gav Orman, Permit Writer ADEQ Waste Permits and Support Unit 1110 West Washington Street, Phoenix, Arizona 85007 Phone: (602) 771-8727

Email: hazwastepermits@azdeq.gov

All written comments delivered or postmarked by the last day of the public comment period will be considered in ADEQ's final determination regarding the Draft Permit. After all comments have been considered, a final permit decision will be made by the Director. The applicant, each person who has submitted written or oral comments, and each person who has so requested, will receive a notice of this final permit decision. This notice shall reference procedures for appealing a decision on the Draft Permit. The final permit decision shall become effective on the date specified in the final permit notice.

At the time that the final decision is made, the Director shall also issue a response to any significant comments. The response to comments shall consider all items as specified in A.A.C R18-8-271.O and 40 CFR §124.17. The response to comments shall be made available to the public for review. Any person who desires to be placed on the mailing list for all future



permitting activities for this facility may request so in writing to the above address or email pursuant to A.A.C. R18-8-271.I(c)(1)(ix) and 40 CFR \$124.10(c)(1)(ix)(a).

In addition to submitting public comments, any person may request the Director to schedule a public hearing. Written requests for a public hearing must be submitted to ADEQ by no later than the closing of the public comment period, June 9, 2022, and must state the nature of the issues proposed to be raised in the hearing.

The Director will hold this hearing if:

- 1. They find, on the basis of requests, a significant degree of public interest in the Draft Permit, or
- 2. They find that the hearing might clarify one or more issues involved in the permit decision, or
- 3. A formal written notice of opposition to the Draft Permit is received within the comment period.

PERSONS TO CONTACT FOR ADDITIONAL INFORMATION

For additional information, please contact:

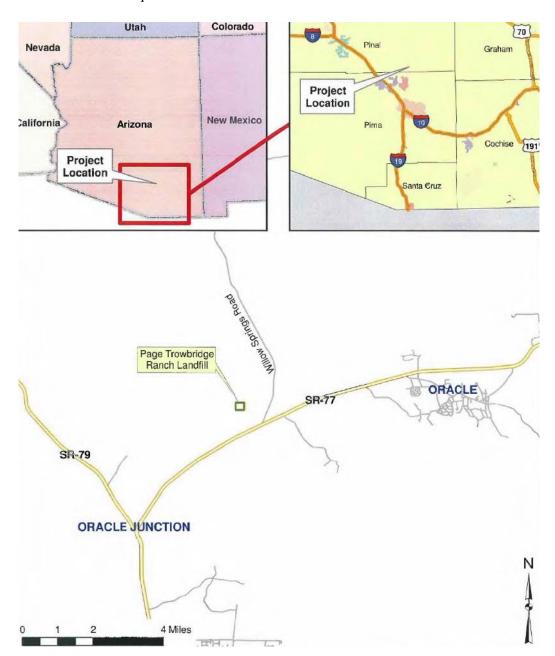
Gav Orman, Permit Writer ADEQ Waste Permits and Support Unit 1110 West Washington Street, Phoenix, Arizona 85007 Phone: (602) 771-8727

Direct Email: orman.gav@azdeq.gov

General Email: hazwastepermits@azdeq.gov



Figure 1: Site Location Map





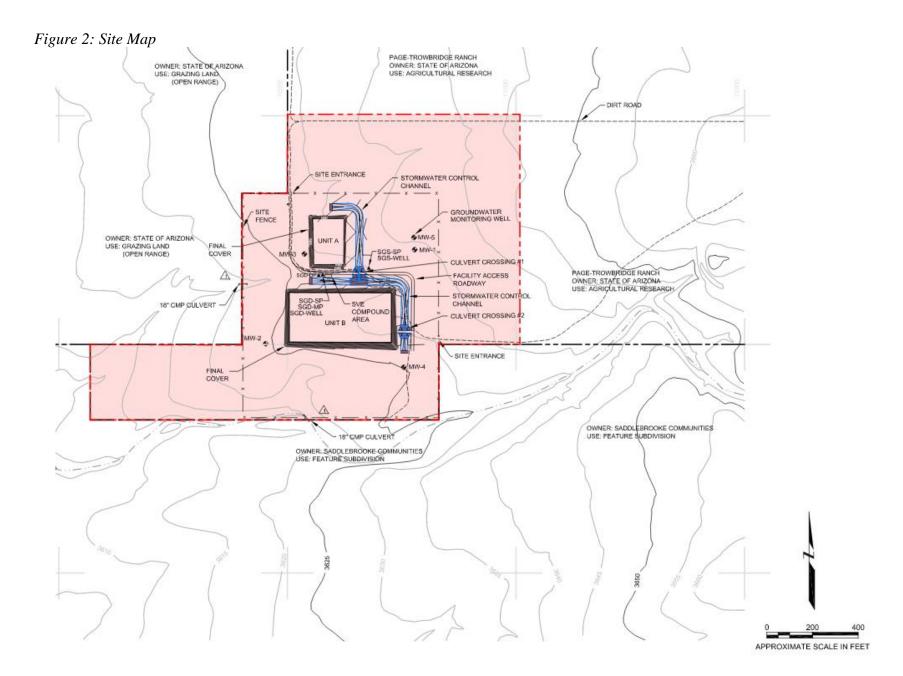




Figure 3: Picture of SVE System

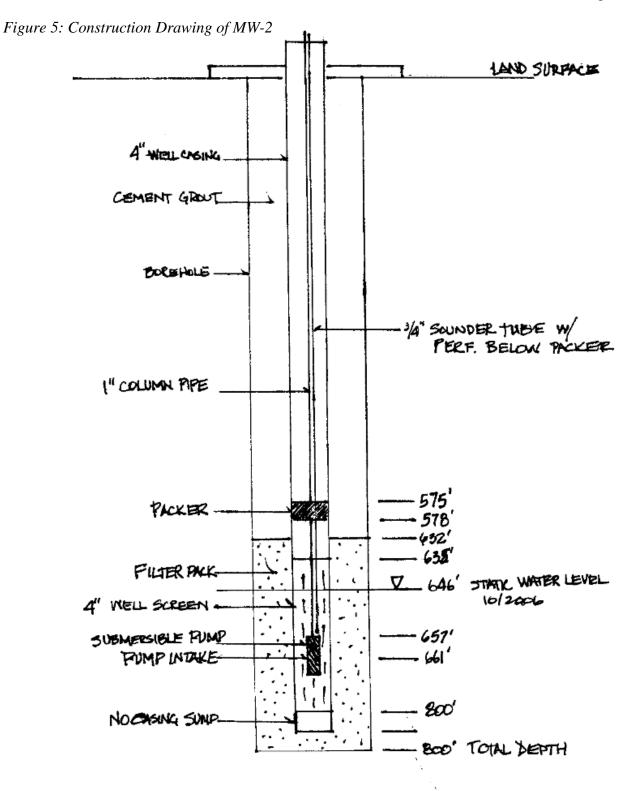


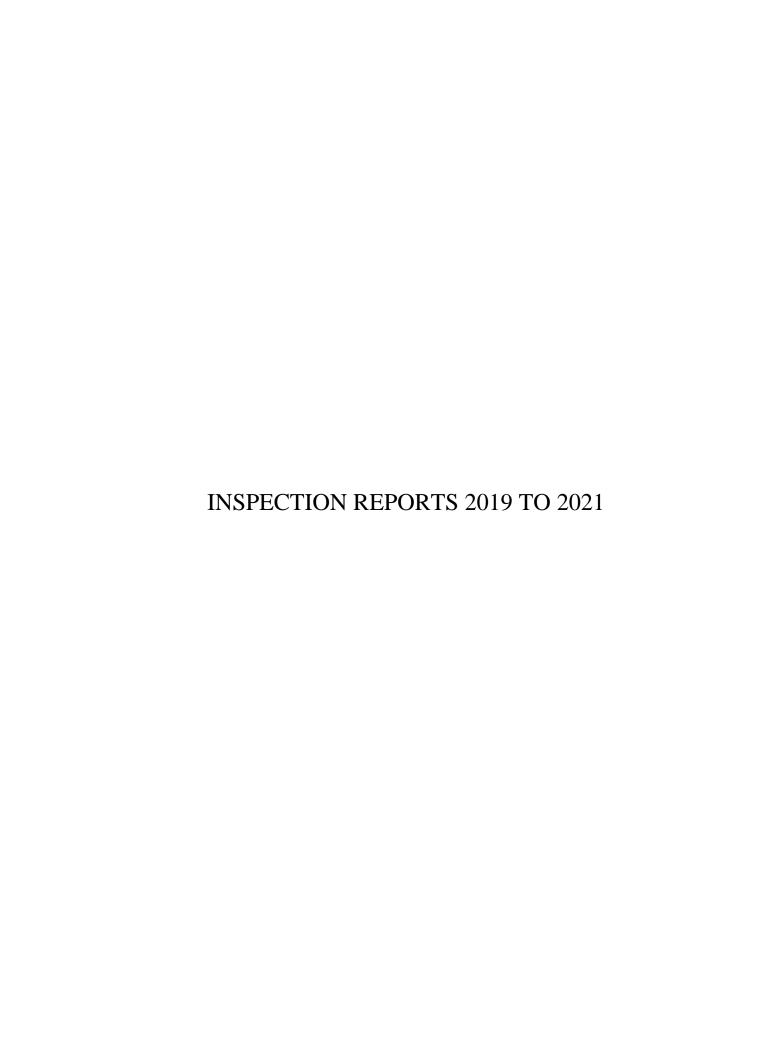


Figure 4: Picture of Well Casings (SGD-DP top and MW-2 bottom)











Arizona Department of Environmental Quality



Hazardous Waste Inspection Report Cover Page

Company Name: University of Arizona – Department of Risk Management	Inspection Report ID No.: 321411	
Place Name: Page-Trowbridge Ranch Landfill Place ID No.: 3166	Lead Inspector: Mario Barrios	
County: Pinal	Arrival Date and Time: 4/17/2019 9:00 AM	
Physical Location: Pinal County Sec 27-33, T9S, R14E, Oracle Junction, AZ 85721-0300	Reason for Inspection: ⊠ Routine Inspection	
Mailing Address: PO Box 210300 #Risk Management Service, Tucson, AZ 85721	☐ Follow-Up ☐ Complaint Complaint No. Click have to outer taxt	
Operator Person/Title: Jeffery Christensen, EHS Manager Phone No.: (520) 349-2187 Email: jgchrist@email.arizona.edu	Complaint No.: Click here to enter text. ☐ Other: Click here to enter text.	
Business Owner: University of Arizona Phone No.: (520) 621-1790 E-mail: rms-risk@email.arizona.edu	Announced Inspection: ⊠Yes □No	
Land Owner: University of Arizona Mailing Address: PO Box 210300 Tucson, AZ 85721		
Results of Inspection:		
 □ No deficiencies were noted during the course of the inspection. No ADEQ action will result from this inspection. □ Follow-up action is needed; please submit the requested documentation, which is detailed on the inspection report. □ Potential deficiencies were noted during the course of the inspection. Additional correspondence regarding this Inspection may be forthcoming. 		
Attachments: Notice of Inspection Rights Small Business Bill of Rights Inspection Checklist Photographic Log Exit Debriefing		



ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY NOTICE OF INSPECTION RIGHTS

FACILITY INFORMATION	ADEQ INFORMATION	
Facility Name (Customer): Page-Trowbridge Ranch Landfill	Date of Inspection: 4/17/2019	
Facility Location (Place): Pinal County Sec 27-33, T9S, R14E, Oracle Junction,	County: Pinal	
AZ 85721-0300	Inspector: Mario Barrios	
Mailing Address: PO Box 210300 #Risk Management Service, Tucson, AZ	Telephone: (602) 771-5349	
85721	Accompanied by: Mel Bunkers, Anthony	
Responsible Party: University of Arizona – Department of Risk Management	Leverock, Lowell Carty	
On-Site Representative: Jeffery Christensen	ADEQ Follow-up Contact:	
Title: EHS Manager	Mario Barrios	
Telephone: (520) 349-2187	Title: Hazardous Waste Compliance Officer	
Email: jgchrist@email.arizona.edu	Telephone: (602) 771-5349	

The ADEQ representative(s) identified above were present at the above address on the above listed date and time. Upon entry to the premises, the ADEQ representative(s) met with me, presented photo identification indicating that they are ADEQ employees and explained:

☒ That the purpose of the inspection is to determine:

⊠ Compliance with Title 49 of the Arizona Revised Statutes, Title 18 of the Arizona Administrative Code* and/or:

Arizona Revised Statutes: Title 49, Chapter 3 Arizona Administrative Code: Title 18, Chapter 2

Permit/Agreement Number:

☑ Qualification for a license issued pursuant to:

Arizona Revised Statutes: Title 49, Chapter 3 Arizona Administrative Code: Title 18, Chapter 2

☑ That this inspection is conducted pursuant to the authority granted in Arizona Revised Statutes § 49-104(B)(8) and/or:

Arizona Revised Statutes: § 41-1009

Arizona Administrative Code: Title 18, Chapter 2

Permit/Agreement Number:

☑ That the state shall not be barred by the statutes of limitations of actions, according to A.R.S. § 12-510, except as provided in A.R.S. § 12-529 concerning certain claims based on navigability of watercourses. According to 28 U.S.C. § 2462, the U.S. government must commence an action within 5 years after the date the claim first accrued.

☑ Possible applicability of Small Business Bill of Rights pursuant to Arizona Revised Statutes § 41-1001(21)

That the fee for this inspection is: N/A

*The Arizona Revised Statutes (A.R.S.) can be found on the internet: www.azleg.state.az.us/ArizonaRevisedStatutes.asp while the Arizona Administrative Code (A.A.C.) can be found at www.azsosaz.gov/public services/Table of Contents.htm

While I have the right to refuse to sign this form, the ADEQ representatives may still proceed with the inspection

* * 1111	of have the right to refuse to sigh this form, the ribbo representatives may still proceed with the	ie inspection
\boxtimes	I have read this notice and discussed any questions or concerns with the ADEQ representatives. Business Bill of Rights.	s and I have received the Small
	The regulated person or authorized on-site representative refused to sign.	
	The regulated person or an authorized on-site representative was not present at the facility.	EHS Manager
	Name of Regulated Person or Authorized On-Site Representative	Title
	4/17/2019 A/17/2019	11010

Signature of ADEQ Representative

Inspection Rights

- ☑ I understand that I can accompany the ADEQ representative(s) on the premises, except during confidential interview.
- ☑ I understand that I have right to, on request:
 - Copies of any original documents taken during the inspection, and that ADEQ will provide copies of those documents at ADEQ's expense;
 - A split of any samples taken during the inspection, if the split of the samples would not prohibit an analysis from being conducted or render an analysis inconclusive;
 - > Copies of any analysis performed on samples taken during the inspection and that ADEQ would provide copies of this analysis at ADEQ's expense;
 - Copies of any documents to be relied on to determine compliance with licensure or regulatory requirements if the agency is otherwise permitted by law to do so.

✓ I also understand that:

- Each person who is interviewed by an ADEO inspector during the inspection must be informed that:
 - 1) Participation in an interview is voluntary, unless legally compelled to participate;
 - 2) They have the right to have an attorney or other experts in their field present during the interview to represent or advise the regulated person;
 - 3) The ADEQ inspector may not take any adverse action or treat less favorably or draw any inference as a result of the regulated person's decision to be represented by an attorney or advised by any other experts in their field;
 - 4) Statements made by the person may be included in the inspection report; and
 - 5) They have the right to 24 hours to review and revise any written witness statement drafted by the ADEQ inspector on which the ADEQ inspector requests that person's signature.
- > If the information and documents provided to the ADEQ inspector become a public record, trade secrets and proprietary and confidential information may be redacted, unless the information and documents are not confidential pursuant to statute.
- Each person interviewed during the inspection must be informed that statements made by the person may be included in the inspection report;
- Each person whose conversation is tape recorded during the inspection must be informed that the conversation is being tape recorded;
- If an administrative order is issued or a permit decision is made based on the results of the inspection, I have the right to appeal that administrative order or permit decision. I understand that my administrative hearing rights are set forth in Arizona Revised Statutes § 41-1092 et seq. and my rights relating to an appeal of a final agency decision are found in Arizona Revised Statutes § 12-901 et seq;
- ➤ If I have any questions or concerns about this inspection, I may contact the person listed as the ADEQ Follow-up Contact on the front of this form; ADEQ's Ombudsman at (602) 771-4322 (toll free inside Arizona at (800) 2345677, extension, 771-4322); or the Arizona Ombudsman-Citizens' Aid office at (602) 277-7292 (toll free at (800) 872-2879);
- ➤ If I have any questions concerning my rights to appeal an administrative order or permit decision, I may contact ADEQ's Office of Administrative Counsel at (602) 771-2212 (toll free inside Arizona at (800) 234-5677, extension 771-2212).

Arizona Revised Statutes: Small Business Bill of Rights

41-1001.01. Regulatory bill of rights; small businesses

- A. To ensure fair and open regulation by state agencies, a person:
 - 1. Is eligible for reimbursement of fees and other expenses if the person prevails by adjudication on the merits against an agency in a court proceeding regarding an agency decision as provided in section 12-348.
 - 2. Is eligible for reimbursement of the person's costs and fees if the person prevails against any agency in an administrative hearing as provided in section 41-1007.
 - 3. Is entitled to have an agency not charge the person a fee unless the fee for the specific activity is expressly authorized as provided in section 41-1008.
 - 4. Is entitled to receive the information and notice regarding inspections and audits prescribed in section 41-1009.
 - 5. May review the full text or summary of all rulemaking activity, the summary of substantive policy statements and the full text of executive orders in the register as provided in article 2 of this chapter.
 - 6. May participate in the rulemaking process as provided in articles 3, 4, 4.1 and 5 of this chapter, including:
 - (a) Providing written comments or testimony on proposed rules to an agency as provided in section 41-1023 and having the agency adequately address those comments as provided in section 41-1052, subsection D, including comments or testimony concerning the information contained in the economic, small business and consumer impact statement.
 - (b) Filing an early review petition with the governor's regulatory review council as provided in article 5 of this chapter.
 - (c) Providing written comments or testimony on rules to the governor's regulatory review council during the mandatory sixty-day comment period as provided in article 5 of this chapter.
 - 7. Is entitled to have an agency not base a licensing decision in whole or in part on licensing conditions or requirements that are not specifically authorized by statute, rule or state tribal gaming compact as provided in section 41-1030, subsection B.
 - 8. Is entitled to have an agency not make a rule under a specific grant of rulemaking authority that exceeds the subject matter areas listed in the specific statute or not make a rule under a general grant of rulemaking authority to supplement a more specific grant of rulemaking authority as provided in section 41-1030, subsection C.
 - 9. May allege that an existing agency practice or substantive policy statement constitutes a rule and have that agency practice or substantive policy statement declared void because the practice or substantive policy statement constitutes a rule as provided in section 41-1033.
 - 10. May file a complaint with the administrative rules oversight committee concerning:
 - (a) A rule's, practice's or substantive policy statement's lack of conformity with statute or legislative intent as provided in section 41-1047.
 - (b) An existing statute, rule, practice alleged to constitute a rule or substantive policy statement that is alleged to be duplicative or onerous as provided in section 41-1048.
 - 11. May have the person's administrative hearing on contested cases and appealable agency actions heard by an independent administrative law judge as provided in articles 6 and 10 of this chapter.
 - 12. May have administrative hearings governed by uniform administrative appeal procedures as provided in articles 6 and 10 of this chapter and may appeal a final administrative decision by filing a notice of appeal pursuant to title 12, chapter 7, article 6.
 - 13. May have an agency approve or deny the person's license application within a predetermined period of time as provided in article 7.1 of this chapter.
 - 14. Is entitled to receive written notice from an agency on denial of a license application:
 - (a) That justifies the denial with references to the statutes or rules on which the denial is based as provided in section 41-1076.
 - (b) That explains the applicant's right to appeal the denial as provided in section 41-1076.
 - 15. Is entitled to receive information regarding the license application process before or at the time the person obtains an application for a license as provided in sections 41-1001.02 and 41-1079.
 - 16. May receive public notice and participate in the adoption or amendment of agreements to delegate agency functions, powers or duties to political subdivisions as provided in section 41-1026.01 and article 8 of this chapter.
 - 17. May inspect all rules and substantive policy statements of an agency, including a directory of documents, in the office of the agency director as provided in section 41-1091.
 - 18. May file a complaint with the office of the ombudsman-citizens aide to investigate administrative acts of agencies as provided in chapter 8, article 5 of this title.
 - 19. Unless specifically authorized by statute, may expect state agencies to avoid duplication of other laws that do not enhance regulatory clarity and to avoid dual permitting to the extent practicable as prescribed in section 41-1002.
 - 20. May have the person's administrative hearing on contested cases pursuant to title 23, chapter 2 or 4 heard by an independent administrative law judge as prescribed by title 23, chapter 2 or 4.

- B. The enumeration of the rights listed in subsection A of this section does not grant any additional rights that are not prescribed in the sections referenced in subsection A of this section.
- C. Each state agency that conducts audits, inspections or other regulatory enforcement actions pursuant to section 41-1009 shall create and clearly post on the agency's website a small business bill of rights. The agency shall create the small business bill of rights by selecting the applicable rights prescribed in this section and section 41-1009 and any other agency-specific statutes and rules. At the request of an authorized on-site representative of the regulated small business, the agency shall provide a written document of the small business bill of rights. In addition to the rights listed in this section and section 41-1009, the agency notice of the small business bill of rights shall include the process by which a small business may file a complaint with the agency employees who are designated to assist members of the public or regulated community pursuant to section 41-1006. The notice must provide the contact information of the agency's designated employees. The agency notice must also state that if the regulated person has already made a reasonable effort with the agency to resolve the problem and still has not been successful, the regulated person may contact the office of ombudsman-citizens aide.



ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

HAZARDOUS WASTE UNIT COMPLIANCE CHECKLIST

Hazardous Waste Permit (LTF # 54500)

University of Arizona – Page Trowbridge Ranch Landfill

EPA ID No. AZD 980 665 814

This checklist is provided as a tool for permit holders and ADEQ staff to have a consistent understanding of significant compliance expectations under this permit. This checklist is designed to be easy to read and follow. This list does not include every permit condition and permit holders should ensure they understand the full requirements of their permit. This list does not supplant or supersede any legal requirement and is not binding on the permit holder or ADEQ staff.

FACILITY NAME:	Page Trowbridge Ranch Landfill
EPA ID NUMBER:	AZD 980 665 814
PLACE ID NUMBER:	3166
STREET ADDRESS:	T9S, R14E, S½ of Section 27 and N½ of S34, Gila and Salt River Base & Meridian; Lat 32° 36′ 50″ N, Long 110° 53′ 30″ W
CITY/STATE/ZIP:	Pinal County, AZ
TELEPHONE NUMBER:	FAX: (520) 621-3706 – Jeff: (520) 621-1790 - Office: (520) 621-1590
	University of Arizona, Risk Management Services P.O. Box 210300
MAILING ADDRESS:	Tucson, AZ 85721-0300

Inspection

Date: April 17, 2019 Date of Last Inspection: October 24, 2017

NOTE: Any omissions in this report and any accompanying notices shall not be construed as a determination of compliance with applicable regulations. Any regulatory citations to 40 CFR are as adopted by the Arizona Administrative Code, A.A.C. R18-8-201 *et seq.* Photographs available upon request.

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Hazardous Waste Compliance Checklist

Page Trowbridge Ranch Landfill

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Facility Information & Process Top

From 1962 to February 1, 1986, University of Arizona (UA) used Page Trowbridge Ranch Landfill (PTRL) to dispose of low-level radioactive and chemical wastes generated by laboratories at the UA, NAU, ASU, and Veterans Hospital in Tucson. The PTRL site occupies a total of 3.25 acres and consists of two units: Unit A (northern unit) measures 200 feet by 200 feet, and Unit B (southern unit) measures 200 feet by 500 feet. In both units, wastes were placed into individual cells (pits) that were approximately 15 feet deep.

Disposal operations began at Unit B, which from early 1960's received and maintained approval from the Arizona Atomic Energy Commission for disposal of low-level radioactive laboratory wastes. Disposal of mixed wastes at Unit B started in late 1960's, and continued to 1986. Chemical waste disposal cells at Unit B were first used as open neutralization and burn pits; subsequently, they were used for direct burial of chemicals in one- and five-gallon containers (bottles, cans, boxes, bags) and 55-gallon drums packed with adsorbent materials (lab packs). In 1982, Unit A, which was used only for disposal of chemical wastes, replaced Unit B for disposal of hazardous waste only. The unit was designed and operated in accordance with RCRA standards for landfills. The disposal cells were individually double-lined with a chemically resistant synthetic liner. Wastes were received in sealed, 55-gallon drums (DOT 17C). These drums were placed into the cells in single layers, sealed with the plastic liner, and covered with soil. Recordkeeping of wastes disposed in PTRL began in 1978. Based on manifests and earlier disposal records, a total of 80 tons of original containers and 200 tons of lab packs were disposed. This inventory does not include the radioactive wastes or undocumented chemical wastes. The chemical wastes consisted primarily of solvents, ignitable liquids, acids bases, heavy metals, pesticides, and photographic compounds. The landfill was closed in August 1997, in accordance with an approved RCRA closure plan and amendments. Final closure included the following:

- Construction of a single monolithic earthen cover consisting of a 24-inch subgrade with two layers of geogrid; a 24-inch soil infiltration barrier; a 200-mil geonet; and a 24-inch vegetative soil cover.
- Installation of a 6-ft high chain link fence with barbed wire on top;
- Construction of a road network to provide easy access to the facility;
- Construction of storm water channels, and Installation of 36-inch x 22-inch corrugated metal pipe-arch culverts for storm water management;

Following landfill closure, investigations were conducted in 2002, 2003, 2005, and 2007 to evaluate potential impacts of the landfill on subsurface soil, soil vapor, and groundwater in the immediate vicinity of the landfill. The investigations noted that organic vapors were migrating from the landfill cells. In 2004 and 2005, UA submitted work plans for the installation of a soil vapor extraction system located between landfill cells A and B, to remove vapors from the vadose zone. The system commenced operations in June 2006. The calibrated model of vapor diffusion over the history of the landfill operation indicates that with implementation of a soil-vapor extraction system, soil vapor concentrations would likely decline and stabilize in approximately 10 years.

A post-closure permit application was submitted in December 1997, and was approved by ADEQ on November 6, 2001. The permit and subsequent renewals established a 30-year post-closure period for maintenance of PTRL. Post-closure care includes:

- Inspection and maintenance of the covers of the closed landfill unit periodic inspections are performed to monitor final cover integrity, erosion, and woody vegetation growth. Maintenance and repair is performed at the time of inspection or as soon as practicable to original final cover specifications and conditions.
- Inspection and maintenance activities Preventative and corrective maintenance and repair procedures are performed on the perimeter fence, access roads, warning signs, monitor wells, drainage control systems, survey monuments, soil vapor extraction system, and closed landfill unit vegetative covers; Inspection of these items is performed quarterly.
- Groundwater and soil vapor monitoring and reporting a groundwater detection monitoring plan is implemented to periodically collect and analyze groundwater and soil vapor samples from on-site monitoring wells and monitoring points. The measurement of groundwater elevations and implementation of groundwater detection monitoring at the on-site monitoring wells is performed semiannually.

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Physical Inspection

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- ADEQ observed a two foot wide hole under the perimeter fence. At the time of inspection the hole was corrected.
- At the time of inspection, ADEQ observed multiple signs that were not readable. The signage along the perimeter fence needs to be legible within 25 feet "Danger Unauthorized Personnel Keep Out." In addition, the spacing for the signs must between 50-75 feet, depending on the size of the sign.
- Part 2 Post Closure section F. security number 3:
 At the time of inspection, ADEQ observed multiple signs that were not readable. The permittee will maintain signs at all entrances in both English and Spanish.

Key: C = In Compliance N = Not in Compliance N/A = Not Applicable P = Pending Site Security Top 1. Are the facility's security/safety features listed below in good shape: □ Locks ☐ Signage NOTES: "In good shape" means: • Verify that the gates allow ease of access; verify that there are no gaps in or under the gate that would allow unauthorized access to the facility; verify that the barbed wire is uncut and not bent; Verify that the locks work; • Verify that no portion of the fence slumps and that the fencing supports appear to be straight; that the barbed wire C: \square N: \boxtimes N/A: \square P: \square strands are not cut or bent; verify that there are no holes or gaps in the fence itself or that there are no gaps under the fence resulting from burrowing or storm water flow so as to allow for unauthorized access to the facility; Verify that signage is present at the gate and appears along each side of the border/security fence with lettering that is readable at 25 feet. Permit Part II / Permit Attachment B App B-1, Permit Attachment D At the time of inspection, ADEQ observed multiple signs along the perimeter fence that were not readable. ADEQ also observed that the spacing between the signs in some sections was over 100 feet (see photos # 6 and 7). **Compliance Condition:** Please submit written and photographic documentation showing that new signs have been installed and the sign spacing is between 50-75 feet.

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Preparedness & Prevention Top	
1. Does the permittee have available the following required equipment to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment:	
 Communications system (e.g., range radio, cell phone) Device such as a telephone (e.g., landline phone box) 	C: ⊠ N: □ N/A: □ P: □
40 CFR § 264.32 / Permit Attachment F	
2. Are portable fire extinguishers stored at the soil vapor extraction system? Are they fully charged? Have they been inspected within the past year?	C: N: N/A: P:
40 CFR § 264.33 / Permit Attachment F	
Post Closure Care Top	
Does the access road leading to the facility allow ease of access?	
NOTE: Verify that the access road (i.e., not including Willow Springs Road) is not washed out or obstructed so as to restrict access by personnel or emergency services.	C: N: N/A: P:
Permit Part II / Permit Attachment B	
2. Are the roads onsite in good condition and free of vegetation?	
Permit Part II / Permit Attachment B	C: N: N/A: P:
3. Are the following structures free of damage, erosion and woody vegetation growth?	
☐ Cell A Cover	
☐ Cell A Side slope	
⊠ Cell B Cover	C: N: N/A: P:
⊠ Cell B Side slope	
Permit Part II / Permit Attachment B	
4. Are the survey monuments visible with no visible evidence of tampering?	
Permit Part II / Permit Attachment B	C: N: N/A: P:
Hazardous Waste Satellite Accumulation Area Top	
Are all hazardous waste satellite accumulation containers:	
 Located at or near point of initial generation? Under the direct control of operator generating the waste? 	C: N: N/A: P:
40 CFR § 262.34(c)(1)	
2. Are all hazardous waste satellite accumulation containers at or below the 55-gallons limit (or 1-quart of acute hazardous waste) for any one waste stream at any one work station/location?	C: N: N/A: P:
40 CFR § 262.34(c)(1)	
3. Are all hazardous waste satellite accumulation container (s) marked with the words "Hazardous Waste" or other words that identify the contents of the container(s)?	C: N: N/A: P:
40 CFR § 262.34(c)(1)(ii)	

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Hazardous Waste Satellite Accumulation Area Top	
 4. Are all hazardous waste satellite accumulation containers closed? Evidence of: Tight fitting lids Vapor tight/liquid tight 	
Roll-off tarps secured	
No evidence of:	
 Lid not secured or missing Gaskets, lid, bung, vent; damaged, missing 	
Ring missing	$C: \square N: \square N/A: \bowtie P: \square$
Ring not secured & bolted	
Funnel not screwed in tightFunnel lid not tight, closed	
Open/loose bung or vent	
Inappropriate vent, flash arrester, vacuum breaker, pressure relief	
40 CFR § 262.34 (c)(1)(i)/40 CFR § 265.173(a) / A.A.C. R18-8-262/A.A.C. R18-8-270(B)(1)	
5. Are all hazardous waste satellite accumulation containers in good condition? No evidence of:	
Leaking, spilling, off-gassing	
 Punctured, holes, broken Metal corrosion, rust, pitting, thinning; inside & outside 	
Plastic cut, gouged, heat deformed, softened, thinned	
Bulging, creasing, & denting (not restorable to original shape)	
 Metal fatigue from fire, bending, wear Chimes separated, bent, open, damaged, unsealed 	C: N: N/A: P:
Body weld open, bent, damaged, defective	
Rolling rings dented, creased damaged	
Note: If not in good condition, transfer the hazardous waste from this container to a container that is in good condition or manage the waste in some other way that complies with the requirements.	
40 CFR § 262.34 (c)(1)(i)/40 CFR § 265.171	
6. Is the hazardous waste satellite accumulation container or liner compatible with the waste? (ex. Acids/water solutions	
in metal drums)	$C: \square_{N:} \square_{N/A:} \boxtimes_{P:} \square$
40 CFR § 262.34 (c)(1)(i)/40 CFR § 265.172	C N IVA 1
7. If 55-gallons/1-quart of hazardous waste is exceeded, are the hazardous waste satellite accumulation containers moved to the central accumulation area within 3 days?	C: N: N/A: P:
40 CFR § 262.34(c)(2)	
8. Are hazardous waste satellite accumulation containers marked with the accumulation start date as the date the excess amount began accumulating?	C: N: N/A: P:
40 CFR §262.34(c)(2)	
	L
Run-on / Run-off Controls Ton	
1. Are the following structures in good shape?	
☐ Culvert Crossing #1 (located between Cell A and Cell B)	
☐ Culvert Crossing #2 (located on the southeastern end of Cell B)	
☑ 18" CMP Culvert (east of Cell B at the border/security fence)	
☑ 18" CMP Culvert (south of Cell B at the border/security fence)	
☐ Cell A Swales (e.g., ditches and rip-rap)	
☐ Cell B Swales (e.g., ditches, rip-rap, and storm water depression)	C: N: N/A: P:
NOTES "In good shape" means: • Gates on 18" CMP culverts must be locked, unobstructed/free of debris. Interior channels of culverts must be clear so as to allow the smooth flow of storm water. Sediment filters must be staked in place; • Culvert crossings must be free of debris, and interior channels must be clear so as to allow the smooth flow of storm	C. M. L. IVA. L. F. L.
water. • Swales must not be eroded, damaged, or blocked with debris or excessive vegetation.	
Permit Part II / Permit Attachment B	

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Corrective Action - Interim Measures Top	
1. Are the following structures used for Interim Measures in good shape?	
☐ GAC Absorbers (2)	
Solar panel Arrays (2)	
☐ Extraction Blower, Motor, Belt Drive	
☐ Injection Blower, Motor, Belt Drive	
Control Panel / Charge Controller / Load Controller / Inverter	
☐ Battery Array	C: N: N N/A: P:
☐ Piping	C: Z N: L N/A: L r: L
☐ Condensate Separators (KO-1 and KO-2)	
SGS Condensate Sump	
NOTE: "In good shape" means visually check for obvious physical damage.	
Permit Part III and Permit Attachment C	
2. Are the soil vapor monitoring enclosures in good shape?	
MW #2	
⊠ MW #5	
⊠ Well SGS	
☐ Probe SGS-SP	
☐ Probes SGD -SP and –MP (collocated)	C: N: N N/A: P:
☐ Probe SGD-DP (aka SGD-2)	
☑ Well SGD (used for air injection)	
NOTE: "In good shape" means visually check for obvious physical damage.	
Permit Part III / Permit Attachment C	
Permit Part III / Permit Attachment C	
Groundwater Monitoring Top	
1. Are the groundwater monitoring well enclosures in good shape?	
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1. Are the groundwater monitoring well enclosures in good shape?	C: N: N/A: P:
1. Are the groundwater monitoring well enclosures in good shape?	C: N: N/A: P:
1. Are the groundwater monitoring well enclosures in good shape? MW #2 MW #3 MW #4 MW #5 NOTE: "In good shape" means free of deterioration and/or vandalism, are the well enclosures locked? Are the ADWR IDs and the MW designations present and readable?	C: N: N/A: P:
1. Are the groundwater monitoring well enclosures in good shape? MW #2 MW #3 MW #4 MW #5 NOTE: "In good shape" means free of deterioration and/or vandalism, are the well enclosures locked? Are the ADWR IDs and the MW designations present and readable? Permit Part III/Permit Attachment B	C: N: N/A: P:
1. Are the groundwater monitoring well enclosures in good shape? MW #2 MW #3 MW #4 MW #5 NOTE: "In good shape" means free of deterioration and/or vandalism, are the well enclosures locked? Are the ADWR IDs and the MW designations present and readable?	C: ⊠ N: □ N/A: □ P: □
1. Are the groundwater monitoring well enclosures in good shape?	C: ⊠ N: □ N/A: □ P: □
1. Are the groundwater monitoring well enclosures in good shape?	
1. Are the groundwater monitoring well enclosures in good shape?	C: ⋈ N: □ N/A: □ P: □ C: ⋈ N: □ N/A: □ P: □
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1. Are the groundwater monitoring well enclosures in good shape?	C: ⊠ N: □ N/A: □ P: □

Records Review

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ADEO Foog and Annual Danaut Ton	
ADEQ Fees and Annual Report Top 1. Has the permittee registered annually with ADEQ and paid an annual registration fee?	
NOTE: TSDF registration is due March 1 st of each year.	C: N: N/A: P:
A.R.S. 49-929.A & B/ A.A.C. R18-8-260.	
Has the permittee submitted a timely Facility Annual Report to ADEQ?	
NOTE: The report must be accurate and complete as per 40 CFR § 264.75.	C: N: N/A: P:
A.A.C. R18-8-264.I, Permit Part I.E.12	
Operating Record <u>Top</u>	
1. Does the permittee keep a copy of the most up-to-date Operating Record (at UA Risk Management)? Does the facility keep Operating Records for 3 years? The Operating Record must include:	
(a) Most recent copy of the Post-Closure Plan;	
[A.A.C. R18-8-264.A (40 CFR 264.73(b)(1) Permit Part I.G, Permit Attachment B]	
(b) Most recent copy of the Contingency Plan;	
[A.A.C. R18-8-264.A (40 CFR 264.73(b)(2)), Permit Part I.G, Permit Attachment F]	
[A.A.C. R18-8-264.A (40 CFR 264.73(b)(3)), Permit Part I.G, Permit Attachment E]	
(d) The summary reports and details of all incidents that require implementing the Contingency Plan (this may be a	
written record or an electronic record with written report provided upon request by the Director's authorized representative);	
[A.A.C. R18-8-264.A (40 CFR 264.73(b)(4))]	$C: \boxtimes N: \square N/A: \square P: \square$
(e) The records and results of inspections (this may be a written or an electronic record, however electronic records	
of any checklist must be identical electronic images of the original written record); [A.A.C. R18-8-264.A (40 CFR 264.73(b)(5)), Permit Part I.G]	
(f) Most recent copy of the EGDMP and EGDMP QAPP;	
[A.A.C. R18-8-264.A (40 CFR 264.73(b)(6)), Permit Part I.E.9, Permit Part I.G, Permit Attachments G and H]	
(g) The monitoring, testing or analytical data, and corrective action (this may be a written record or an electronic	
record with written report provided upon request by the Director's authorized representative); [A.A.C. R18-8-264.A (40 CFR 264.73(b)(6)), Permit Part I.E.9, Permit Part I.G]	
[A.A.C. R18-8-264.A (40 CFR 264.73(b)(9))]	
40 CFR § 264.73 / Permit Part II.J.1	
	<u> </u>
Waste Analysis Top	
1. Do waste analyses / determinations appropriately characterize wastes generated in association with the post-closure	
plan for purposes of proper storage, treatment and disposal? Waste determinations may include:	
Lists of wastes produced Raw analytical data and QA/QC documents	
Process descriptions Sampling plans Sofety Pate sheets Applitude results	
 Safety Data sheets Waste Profile Sheets Analytical results 	
NOTES And install and a second design of the	C: N: N N/A: P:
NOTES: Anticipated generated wastes associated with the Permit may include, but are not limited to: • contaminated soils, contaminated PPE, and investigative-derived wastes resulting from site-wide corrective actions,	
and	
• Liquids removed from the condensate collection drum, condensates from KO-1, or KO-2, and GAC generated at the interim measures response (i.e., SVE) system.	
40 CFR § 264.13 / Permit Part II / Permit Part III and Permit Attachment G / Permit Part IV and Permit Attachment I / Permit Attachment C	
Total Audinosi C	
Contingency Plan Top	
1. Is the Contingency Plan (CP) maintained at the Risk Management Office, and is available to facility personnel?	
40 CFR § 262.53(a) / A.A.C. R-18-8-270(B)(1) / Permit Part I.G / Permit Part II.I / Permit Attachment F	C: N: N/A: P:
2. Have there been changes to the CP, and has it been submitted as a Permit modification in accordance with 40 CFR	
270.42?	C: N: N N/A: P:
40 CFR § 264 52(e), and 264 54 / Permit Part ILL / Permit Attachment F	C: N: L N/A: L P: L

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.Contingency Plan <u>Top</u>	
3. Does the CP include an evacuation plan? Are evacuation routes accurately designated in contingency plan?	
NOTE: The evacuation plan must include signals to begin evacuation, evacuation routes, and alternate evacuation routes.	C: N: N/A: P:
40 CFR § 265.52(f) / Permit Part II.I / Permit Attachment F	
4. Does the CP include an updated list of required emergency equipment at the facility, including locations, descriptions and relevant capabilities?	C: N: N/A: P:
40 CFR § 264.52(e) / Permit Part II.I / Permit Attachment F	C. E. 14. E. 1771. E. 1.
5. Does the CP include the names, addresses, and phone numbers (office and home) of all persons qualified as emergency coordinators?	
NOTE: The primary coordinator must be listed first, and others must be listed in the order in which they will assume responsibility as alternates.	C: N: N/A: P:
40 CFR § 264.52(d) / Permit Part II.I / Permit Attachment F	
6. Is there, at all times, an emergency coordinator on the premises or on call (able to reach the facility within a short period of time, e.g., two hours)?	
NOTES:	
The emergency coordinator must be thoroughly familiar with: • All aspects of the contingency plan.	
All operations and activities at the facility.	C: N: N N/A: P:
 Location and characteristics of all waste. Location of all records. 	0. <u> </u>
Location of an records. Layout of the entire facility.	
The emergency coordinator must have the authority to commit the resources needed to carry out the CP.	
40 CFR § 264.55 / Permit Part II.I / Permit Attachment F	
7. Did the permittee submit the CP and its updates to all police and fire departments, and State and local emergency	
response teams that may be called upon during an emergency? The plan must specify names of the entities it is being	
submitted to. The facility must have copies of the transmittal letters.	C: N: N/A: P:
40 CFR § 264.53(b)/ Permit Part II.I / Permit Attachment F	
8. Has the facility had a release, fire or explosion and/or implemented the CP? Did the facility immediately notify the ADEQ Emergency Response Unit ((602) 771-2330 or (800) 234-5677) and either the on-scene government coordinator for the geographical area or the National Response Center (800) 424-8802? Responses may be made for copies of 15-day written reports and operating logs with records of spills and incidents, including those requiring fire department or 9-1-1 assistance. The reports must include:	
Name, address, and telephone number of the owner or operator;	
 Name, address, and telephone number of the facility; Date, time, and type of incident (e.g., fire, explosion); 	C: ⊠ N: □ N/A: □ P: □
 Date, time, and type of incident (e.g., fire, explosion); Name and quantity of material(s) involved; 	
• The extent of injuries, if any,	
 An assessment of actual or potential hazards to human health or the environment, where this is applicable; and Estimated quantity and disposition or recovered material that resulted from the incident. 	
40 CFR § 264.56 / Permit Part II.I /Permit Attachment F	
Personnel Training Top	
Does the permittee maintain the following documents and records at the facility: The job title for each position at the facility related to hazardous waste management, and the name of the employee	
filling each job (d)(1);	
 A written job description for each position. This description must include the requisite skill, education, or other qualifications, and duties of facility personnel assigned to each position; 	
A written description of the type and amount of both introductory and continuing training that will be given to each	
person filling a position; • Person filling a position;	C: N: N N/A: P: D
 Records that document that the required training or job experience has been given to, and completed by, facility personnel. 	
NOTE: Training records on current personnel must be kept until closure of the facility. Training records on former employees must be kept for at least three years from the date the employee last worked at the facility.	
40 CFR § 264.16 / A.A.C. R18-8-270(B)(1) /Permit Part II.H / Permit Attachment E	

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	Personnel Training Top	
Did facility personnel successfully complete a program of them to perform their duties in a way that ensures the factor handling hazardous waste?	of classroom instruction or on the job training that teaches cility's compliance with the requirements of 40 CFR § 265.16	
NOTE: This program must be directed by a person trained instruction which teaches facility personnel hazardous was implementation) relevant to the positions in which they are		C: N: N/A: P:
40 CFR § 264.16(a) / A.A.C. R18-8-270(B)(1)/Permit Part	II.H / Permit Attachment E	
3. Did facility personnel successfully complete the training or assignment to a facility, or to a new position at a facil	program within six months after the date of their employment	
NOTE: Employees hired after the effective date of these rehave completed the training requirements.	egulations must not work in unsupervised positions until they	C: N: N/A: P:
40 CFR § 264.16(b) / A.A.C. R18-8-270(B)(1) / Permit Pa	art II.H / Permit Attachment E	
4. Did facility personnel attend annual review of the initial	training?	C: N: N/A: P:
40 CFR § 264.16(c) / A.A.C. R18-8-270(B)(1) / Permit Pa	rt II.H /Permit Attachment E	C: N: N/A: P: L
	Inspection Records Top	
Does the permittee maintain quarterly inspection logs of Do the inspections address:	the facility structures?	
• Signage	Gates and locks	
Communication systems Landfill covers	Drainage structures Drainage structures	$C: \boxtimes N: \square N/A: \square P: \square$
Survey monuments	Perimeter fencingAccess roads	C. Z. N. Z. IVA. Z. I.
40 CFR § 264.174 / Permit Part II.G / Permit Part II.J / Per	mit Attachment B	
v	ree years from the date of the inspection, filled in after each	
inspection, and include the following information:	<u> </u>	
☐ Inspection date	☐ Observation remarks	
☐ Inspector's name	☐ Corrections made	
☐ Inspector's signature	☐ Date corrections completed	C: N: N/A: P:
NOTE: If deficiencies are found, then facility may be four and train staff.	nd in non-compliance with duty to inspect, log, keep records,	
40 CFR §264.174 / Permit Part II.G / Permit Part II.J / Pern	mit Attachment B	
Does the permittee keep weekly inspection logs of the Ir Do the inspections address:	nterim Measures (SVE) System	
• Pitot tubes	Blowers and blower motors Electrical proteins	
Presence of condensate in condensate separators (October through April)	Electrical systemBattery array	C: N: N/A: P:
 Grounding cables for the solar array and 	,	C: Z N: L N/A: L P: L
electrical systems		
40 CFR § 264.174 / Permit Part II.G / Permit Part II.J / Per		
4. Does the permittee keep quarterly inspection logs of the Do the inspections address:	Interim Measures (SVE) System	
Blower belt drives (PDB-1 and PDB-2)	Vacuum gauges	
General blower functionPanel array	PipingBlower motors (brushes)	C: N: N/A: P:
, and the second		
40 CFR § 264.174 / Permit Part II.G / Permit Part II.J / Per		
in after each inspection, and include the following informa	stem kept for three years from the date of the inspection, filled tion:	
☐ Inspection date		
☐ Inspector's name		
Observation remarks including corrections mad	e	C: N: N/A: P:
NOTE: If deficiencies are found, then facility may be four and train staff.	nd in non-compliance with duty to inspect, log, keep records,	
40 CFR 8264 174 / Permit Part II G / Permit Part II I / Peri	mit Attachment B / Permit Attachment C	

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J:\WPD\Permits\HWPU\Permit Docs\UA Page Trowbridge Ranch\Permit\Permit 2011\Compliance Checklist\PTRL Compliance Checklist.docm

Inspection Records Top	
4. Does the facility inspect the GAC on a semi-annual basis? Does the inspector collect a sample of the process stream vapor from the sampling port located in-between the lead and lag GAC absorber unit?	C: N: N/A: P:
40 CFR § 264.174 / Permit Part II/ Permit Attachment B / Permit Attachment C	
Groundwater Monitoring Records Top	
1. Does the facility have copies of groundwater monitoring analytical data?	
Note: See also Operating Record, item (g)	C: N: N N/A: P:
40 CFR § 264.73 / A.A.C. R18-8-264(A) / Permit Part I.G / Permit Part III.E / Permit Attachment G	6. 2. 11. 2. 1771. 2. 1. 2.
Soil Vapor Monitoring Records Top	
1. Does the facility have copies of soil vapor monitoring analytical data?	
Note: See also Operating Record, item (g))	C: N: N N/A: P:
Permit Part I.G / Permit Part III.D / Permit Part IV.I.4 / Permit Attachment G	
Notifications Top	
1. Has the permittee notified ADEQ in writing of new SWMUs or AOCs?	
Permit Part IV.E.1	C: N: N/A: P:
2. Has the permittee reported issues of noncompliance which may endanger human health or the environment as soon as	
possible or within twenty-four (24) hours of becoming aware of the circumstances?	C: N: N/A: P:
Permit Part I.E.12 / Permit Part IV.F.1	C. <u>E.</u> W. <u>E. W. E. W. </u>
Additional Comments <u>Top</u>	
Click here to enter text.	

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Hazardous Waste Inspection Photographic Log

Site Location:

Page Trowbridge Ranch Landfill -

Photographer:

Photographer: Mario Barrios

Place ID No.: 3166

Photo No. 1

Date: 4/17/2019

Photo Description:

At the time of inspection, ADEQ observed the east side entrance to Page Trowbridge Ranch Landfill.



Site Location:

Page Trowbridge Ranch Landfill -

Place ID No.: 3166

Photo No. 2 Date: 4/17/2019

Photo Description:

At the time of inspection, ADEQ verified that the gate was equipped with a padlock.



Page Trowbridge Ranch Landfill -

Place ID No.: 3166

Photo No.

Date:

4/17/2019

Photo Description:

At the time of inspection, ADEQ observed the signage at the east entrance to Page Trowbridge Ranch Landfill.

Photographer:

Mario Barrios



Site Location:

Page Trowbridge Ranch Landfill -

Place ID No.: 3166

Photo No.

Date:

4/17/2019

Photo Description:

At the time of inspection, ADEQ observed that the gate was locked at the west entrance to Page Trowbridge Ranch Landfill.

Photographer:

Mario Barrios



Page Trowbridge Ranch Landfill -

Photographer:

Mario Barrios

Place ID No.: 3166

Photo No. 5

Date: 4/17/2019

Photo Description:

At the time of inspection, ADEQ observed the fence along the west side of the property.



Site Location:

Page Trowbridge Ranch Landfill -

Photographer: Mario Barrios

Place ID No.: 3166

Photo No. 6

Date: 4/17/2019

Photo Description:

At the time of inspection, ADEQ observed that the sign along the west side of the property was not readable.



Page Trowbridge Ranch Landfill -

Place ID No.: 3166

Photo No.

Date: 4/17/2019

Photo Description:

At the time of inspection, ADEQ observed that the sign on the west side of the property had sun damage.

Photographer: Mario Barrios



Site Location:

Page Trowbridge Ranch Landfill -

Place ID No.: 3166

Photo No.

Date: 4/17/2019

Photo Description:

At the time of inspection, ADEQ observed that there was a gap under the fence (see photo 9).

Photographer:

Mario Barrios



Page Trowbridge Ranch Landfill -

Place ID No.: 3166

Photo No.

Date: 4/17/2019

Photo Description:

During the inspection, Jeff placed a rock covering the gap under the fence (see photo 8).

Photographer: Mario Barrios



Site Location:

Page Trowbridge Ranch Landfill -

Place ID No.: 3166

Photo No. 10

Date: 4/17/2019

Photo Description:

At the time of inspection, ADEQ observed that the culvert was locked.

Photographer:

Mario Barrios



Page Trowbridge Ranch Landfill -

Place ID No.: 3166

Photo No. Date: 4/17/2019

Photo Description:

At the time of inspection, ADEQ observed Cell B to be free of damage, erosion, and woody vegetation growth.

Photographer:

Mario Barrios



Site Location:

Page Trowbridge Ranch Landfill -

Place ID No.: 3166

Photo No. Date: 4/17/2019

Photo Description:

At the time of inspection, ADEQ observed that the Soil Vapor Extraction system was in good shape.

Photographer: Mario Barrios



Page Trowbridge Ranch Landfill -

Photographer: Mario Barrios

Place ID No.: 3166

Photo No. 13

Date: 4/17/2019

Photo Description:

At the time of inspection, ADEQ observed that the Soil Vapor Extraction system was in good shape.



Site Location:

Page Trowbridge Ranch Landfill -

Place ID No.: 3166

Photo No.

Date: 4/17/2019

Photo Description:

At the time of inspection, ADEQ observed fully charged portable fire extinguishers.

Photographer: Mario Barrios



Page Trowbridge Ranch Landfill -

Place ID No.: 3166

Photo No. 15

Date: 4/17/2019

Photo Description:

At the time of inspection, ADEQ observed fully charged portable fire extinguishers.

Photographer:

Mario Barrios



Site Location:

Page Trowbridge Ranch Landfill -

Place ID No.: 3166

Photo No.

16

Date: 4/17/2019

Photo Description:

At the time of inspection, ADEQ observed monitoring well number 3 was in good shape.

Photographer:

Mario Barrios



Page Trowbridge Ranch Landfill -

Photographer: Mario Barrios

Place ID No.: 3166

Photo No. 17

Date: 4/17/2019

Photo Description:

At the time of inspection, ADEQ observed monitoring well number 3 was locked.



Site Location:

Page Trowbridge Ranch Landfill -

Place ID No.: 3166

Photo No.

18

Date: 4/17/2019

Photo Description:

At the time of inspection, ADEQ observed monitoring well number 2 was in operation.

Photographer: Mario Barrios



Page Trowbridge Ranch Landfill -

Photographer: Mario Barrios

Place ID No.: 3166

Photo No. 19

Date: 4/17/2019

Photo Description:

At the time of inspection, ADEQ observed Cell A to be free of damage, erosion, and woody vegetation growth.



Site Location:

Page Trowbridge Ranch Landfill -

Place ID No.: 3166

Photo No. 20

Date: 4/17/2019

Photo Description:

At the time of inspection, ADEQ observed that the culvert crossing and ditch was in good shape.

Photographer: Mario Barrios



Page Trowbridge Ranch Landfill -

Place ID No.: 3166

Photo No. 21

Date: 4/17/2019

Photo Description:

At the time of inspection, ADEQ observed that the interior channel of the culvert was unobstructed.

Photographer: Mario Barrios





ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY FIELD INSPECTION EXIT DEBRIEFING

Site Nai	ne/ID No(s):	Page Trowbridge / 3166	inspe	ction Date:	April 1/	, 2019		
Location	T9S, R14I S34, Gila	E, S½ of Section 27 and N and Salt River		onmental Pro	gram(s):	Hazardous Was	ste	
itle 49; the efficiencies no aspector that	Arizona Admited during the is necessary t	an inspection condunistrative Code; and apprinspection, items you show make a compliance decrease yomissions in this exit decrease.	plicable permits/ ould consider for etermination. Be	licenses. The r follow up acadvised that	following ction, or ac additional	is intended to ditional informa reports and cor	summarize petion requested respondence 1	otential by the may be
• At t fenc the s • Part At t	he time of inspeneeds to be lisigns must bet 2 - Post Clost he time of insp	two foot wide hole unde pection, ADEQ observed legible within 25 feet "Da ween 50-75 feet, dependi ure - section F. security re pection, ADEQ observed both English and Spanis	multiple signs to anger — Unauthoring on the size of tumber 3 multiple signs to	that were not orized Person f the sign.	readable. inel Keep (The signage alo Out." In additio	ng the perime n, the spacing	eter g for
☐ Additiona	l areas of con	cern can be found on the	back of this for	·m				
Please submit	requested doc	umentation by: July 1, 2	2019 / see inspec	tion report				
	<u>Fac</u>	ility Representative			Inspe	ector		
Name:	Jeff Chaji	stensen		Mario Ba	ırrios			
Signature:				$\overline{\mathcal{M}}$	P			

Please submit your response to your inspector's attention at the Arizona Department of Environmental Quality, 1110 West Washington Street, Phoenix, Arizona 85007.



Arizona Department of Environmental Quality



HAZARDOUS WASTE INSPECTION REPORT COVER PAGE

Facility Name: Page Trowbridge Ranch Landfill	Inspection Report ID No.: 346308
EPA ID#: AZD980665814	Date of Inspection: 4/22/2020
Physical Address: Pinal County Sec 27-33, T9S, R14E,	Announced Inspection: ⊠Yes □No
Oracle Junction, AZ 85721-0300	Announced Inspection. \(\text{DTes}\)
Responsible Party: University of Arizona – Department of	Reason for Inspection:
Risk Management	⊠ Routine Inspection
Mailing Address: University of Arizona, Risk	□ Follow-Up
Management Services	☐ Complaint
P.O. Box 210300 Tucson, AZ 85721-0300	Complaint No.:
Land Owner: University of Arizona	□ Other:
Mailing Address: PO Box 210300 Tucson, AZ 85721	□ Other:
On-Site Representative: Jeff Christensen	
Title: EHS Manager	
Phone: 520-621-1790	
Email: jgchrist@email.arizona.edu	
Lead Inspector: Kalie Rumaner	
Accompanied by: David Janke, Mary Cottrell	
ADEQ Follow-up Contact: Kalie Rumaner	
Title: Compliance Officer	
Phone: 602-771-4739	
Email: Rumaner.kalie@azdeq.gov	
Results of Inspection:	
\square No deficiencies were noted during the course of the inspec	
\square Follow-up action is needed; please submit the requested d	
☐ Potential deficiencies were noted during the course of the	inspection. Additional correspondence regarding this
inspection will be forthcoming.	
☑ Deficiencies were noted during the course of the inspection	on and all deficiencies were corrected at the time of the
inspection. No ADEQ action will result from this inspection.	
Attachments:	
Notice of Inspection Rights Small Business Bill of Rights	
Inspection Checklist and Observations	
Photographic Log	

NOTICE OF INSPECTION RIGHTS

The ADEQ representative(s) identified above were present at the address listed above. Upon entry to the premises, the ADEQ representative(s) met with me, presented photo identification indicating that they are ADEQ employees and explained:

☑ That the purpose of the inspection is to determine compliance with:

Arizona Revised Statutes: <u>Title 49 (The Environment)</u> – Chapter 5 (Hazardous Waste Disposal)
Arizona Administrative Code: <u>Title 18 (Environmental Quality)</u> – Chapter 8 (Hazardous Waste Management)
Code of Federal Regulations: <u>Title 40 - Parts 260 through 273</u>
Hazardous Waste Permit (if applicable):

☑ That this inspection is conducted pursuant to the authority granted in Arizona Revised Statutes § 49-104(B)(8) and/or:

Arizona Revised Statutes § 49-144 Arizona Revised Statutes § 41-1009

- ☑ That the state shall not be barred by the statutes of limitations of actions, according to <u>A.R.S. § 12-510</u>, except as provided in <u>A.R.S. § 12-529</u> concerning certain claims based on navigability of watercourses. According to <u>28 U.S.C. § 2462</u>, the U.S. government must commence an action within 5 years after the date the claim first accrued.
- ☑ Possible applicability of Small Business Bill of Rights pursuant to Arizona Revised Statutes § 41-1001(21)
- \boxtimes There is no fee associated with this inspection.
- ☑ Photos will be taken during the inspection.
- ✓ I understand that I can accompany the ADEQ representative(s) on the premises, except during confidential interview.
- ☑ I understand that I have right to, upon request:
 - Copies of any original documents taken by the agency during the inspection.
 - A split of any samples taken during the inspection if the split of any samples would not prohibit an analysis from being conducted or render an analysis inconclusive.
 - Copies of any analysis performed on samples taken during the inspection.
 - > Copies of any documents to be relied on to determine compliance with licensure or regulatory requirements if the agency is otherwise permitted by law to do so.
- ⋈ I understand that:
 - Each person who is interviewed by an ADEQ inspector during the inspection must be informed that:
 - 1) Statements made by the person may be included in the inspection report.
 - 2) That conversation with an agency inspector during the inspection are being tape recorded.
 - 3) Participation in an interview is voluntary, unless legally compelled to participate in the interview.
 - 4) The person is allowed at least twenty-four hours to review and revise any written witness statement that is drafted by the agency inspector which the agency inspector requests the person's signature.
 - 5) The agency inspector may not prohibit the regulated person from having an attorney or any other experts in their field present during the interview to represent or advise the regulated person.
 - 6) The agency inspector may not take any adverse action, treat the regulated person less favorably or draw any inference as a result of the regulated person's decision to be represented by an attorney or advised by any other experts in their field.

- That the information and documents provided to the agency inspector become a public record, the regulated person may redact trade secrets and proprietary and confidential information unless the information and documents are confidential pursuant to statute.
- ➤ If an administrative order is issued or a permit decision is made based on the results of the inspection, I have the right to appeal that administrative order or permit decision. I understand that my administrative hearing rights are set forth in <u>Arizona Revised Statutes: Title 41 (State Government)</u> Chapter 6 (Administrative Procedure) Article 10 (Uniform Administrative Hearing Procedures) <u>41-1092.03</u> and my rights relating to an appeal of a final agency decision are found in <u>Arizona Revised Statutes: Title 41 (State Government)</u> Chapter 6 (Administrative Procedure) Article 10 (Uniform Administrative Hearing Procedures) <u>41-1092.08</u>

Additional information:

- ➤ If I have any questions or concerns about this inspection, I may contact the person listed as the ADEQ Follow-up Contact on the front of this form.
- ➤ ADEQ Hazardous Waste Unit Manager (602) 771-0381 or toll free at (800) 234-5677.
- ➤ ADEQ Community Liaison Ombudsman (602) 771-2288 or toll free at (800) 234-5677.
- ➤ The <u>Arizona Ombudsman Citizens' Aide</u> office at (602) 277-7292 or toll free at (800) 872-2879 (outside Phoenix metro area). <u>Arizona Revised Statutes: Title 41 (State Government)</u> Chapter 8 (Agencies of the Legislative Department) Article 5 (Office of Ombudsman-Citizens Aide).
- ➤ If I have any questions concerning my rights to appeal an administrative order or permit decision, I may also contact ADEQ's Office of Administrative Counsel at (602) 771-2212 or toll free at (800) 234-5677.

Whil	e I have the right to refuse to sign this form, the ADEQ representatives may still proceed with the inspection.
\boxtimes	By signing below I acknowledge that have read, understand, and discussed any questions or concerns with ADEQ representative(s) about the statutes.
Print	ed Name: Jeff Christensen
	Date: 4/22/2020
Sign	ature of Regulated Person or Authorized On-Site Representative
Print	ed Name: Kalie Rumaner
Sign	ature of ADEQ Representative
	The regulated person or authorized on-site representative refused to sign.
	The regulated person or an authorized on-site representative was not present at the facility.

SMALL BUSINESS BILL OF RIGHTS

A.R.S. 41-1001.01. Regulatory bill of rights; small businesses

- A. To ensure fair and open regulation by state agencies, a person:
- 1. Is eligible for reimbursement of fees and other expenses if the person prevails by adjudication on the merits against an agency in a court proceeding regarding an agency decision as provided in section 12-348.
- 2. Is eligible for reimbursement of the person's costs and fees if the person prevails against any agency in an administrative hearing as provided in section 41-1007.
- 3. Is entitled to have an agency not charge the person a fee unless the fee for the specific activity is expressly authorized as provided in section 41-1008.
- 4. Is entitled to receive the information and notice regarding inspections and audits prescribed in section 41-1009.
- 5. May review the full text or summary of all rulemaking activity, the summary of substantive policy statements and the full text of executive orders in the register as provided in article 2 of this chapter.
- 6. May participate in the rulemaking process as provided in articles 3, 4, 4.1 and 5 of this chapter, including:
- (a) Providing written comments or testimony on proposed rules to an agency as provided in section 41-1023 and having the agency adequately address those comments as provided in section 41-1052, subsection D, including comments or testimony concerning the information contained in the economic, small business and consumer impact statement.
- (b) Filing an early review petition with the governor's regulatory review council as provided in article 5 of this chapter.
- (c) Providing written comments or testimony on rules to the governor's regulatory review council during the mandatory sixty-day comment period as provided in article 5 of this chapter.
- 7. Is entitled to have an agency not base a licensing decision in whole or in part on licensing conditions or requirements that are not specifically authorized by statute, rule or state tribal gaming compact as provided in section 41-1030, subsection B.
- 8. Is entitled to have an agency not make a rule under a specific grant of rulemaking authority that exceeds the subject matter areas listed in the specific statute or not make a rule under a general grant of rulemaking authority to supplement a more specific grant of rulemaking authority as provided in section 41-1030, subsection C.
- 9. May allege that an existing agency practice or substantive policy statement constitutes a rule and have that agency practice or substantive policy statement declared void because the practice or substantive policy statement constitutes a rule as provided in section 41-1033.
- 10. May file a complaint with the administrative rules oversight committee concerning:
- (a) A rule's, practice's or substantive policy statement's lack of conformity with statute or legislative intent as provided in section 41-1047.
- (b) An existing statute, rule, practice alleged to constitute a rule or substantive policy statement that is alleged to be duplicative or onerous as provided in section 41-1048.
- 11. May have the person's administrative hearing on contested cases and appealable agency actions heard by an independent administrative law judge as provided in articles 6 and 10 of this chapter.

- 12. May have administrative hearings governed by uniform administrative appeal procedures as provided in articles 6 and 10 of this chapter and may appeal a final administrative decision by filing a notice of appeal pursuant to title 12, chapter 7, article 6.
- 13. May have an agency approve or deny the person's license application within a predetermined period of time as provided in article 7.1 of this chapter.
- 14. Is entitled to receive written notice from an agency on denial of a license application:
- (a) That justifies the denial with references to the statutes or rules on which the denial is based as provided in section 41-1076.
- (b) That explains the applicant's right to appeal the denial as provided in section 41-1076.
- 15. Is entitled to receive information regarding the license application process before or at the time the person obtains an application for a license as provided in sections 41-1001.02 and 41-1079.
- 16. May receive public notice and participate in the adoption or amendment of agreements to delegate agency functions, powers or duties to political subdivisions as provided in section 41-1026.01 and article 8 of this chapter.
- 17. May inspect all rules and substantive policy statements of an agency, including a directory of documents, in the office of the agency director as provided in section 41-1091.
- 18. May file a complaint with the office of the ombudsman-citizens aide to investigate administrative acts of agencies as provided in chapter 8, article 5 of this title.
- 19. Unless specifically authorized by statute, may expect state agencies to avoid duplication of other laws that do not enhance regulatory clarity and to avoid dual permitting to the extent practicable as prescribed in section 41-1002.
- 20. May have the person's administrative hearing on contested cases pursuant to title 23, chapter 2 or 4 heard by an independent administrative law judge as prescribed by title 23, chapter 2 or 4.
- 21. Pursuant to section 41-1009, subsection E, may correct deficiencies identified during an inspection unless otherwise provided by law.
- B. The enumeration of the rights listed in subsection A of this section does not grant any additional rights that are not prescribed in the sections referenced in subsection A of this section.
- C. Each state agency that conducts audits, inspections or other regulatory enforcement actions pursuant to section 41-1009 shall create and clearly post on the agency's website a small business bill of rights. The agency shall create the small business bill of rights by selecting the applicable rights prescribed in this section and section 41-1009 and any other agency-specific statutes and rules. The agency shall provide a written document of the small business bill of rights to the authorized on-site representative of the regulated small business. In addition to the rights listed in this section and section 41-1009, the agency notice of the small business bill of rights shall include the process by which a small business may file a complaint with the agency employees who are designated to assist members of the public or regulated community pursuant to section 41-1006. The notice must provide the contact information of the agency's designated employees. The agency notice must also state that if the regulated person has already made a reasonable effort with the agency to resolve the problem and still has not been successful, the regulated person may contact the office of ombudsman-citizens aide.



ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

HAZARDOUS WASTE UNIT COMPLIANCE CHECKLIST

Hazardous Waste Permit (LTF # 72437)

University of Arizona - Page Trowbridge Ranch Landfill

EPA ID No. AZD 980 665 814

This checklist is provided as a tool for permit holders and ADEQ staff to have a consistent understanding of significant compliance expectations under this permit. This checklist is designed to be easy to read and follow. This list does not include every permit condition and permit holders should ensure they understand the full requirements of their permit. This list does not supplant or supersede any legal requirement and is not binding on the permit holder or ADEQ staff.

FACILITY NAME:	Page Trowbridge Ranch Landfill
EPA ID NUMBER:	AZD 980 665 814
PLACE ID NUMBER:	3166
	T9S, R14E, S1/2 of Section 27 and N1/2 of S34, Gila and Salt River
STREET ADDRESS:	Base & Meridian; Lat 32° 36' 50" N, Long 110° 53' 30" W
CITY/STATE/ZIP:	Pinal County, AZ
TELEPHONE NUMBER:	(520) 621-3706
	University of Arizona, Risk Management Services
	P.O. Box 210300
MAILING ADDRESS:	Tucson, AZ 85721-0300

Inspection

Date: 4/22/2020 **Date of Last Inspection:** 4/17/2019

NOTE: Any omissions in this report and any accompanying notices shall not be construed as a determination of compliance with applicable regulations. Any regulatory citations to 40 CFR are as adopted by the Arizona Administrative Code, A.A.C. R18-8-201 *et seq.* Photographs available upon request.

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Hazardous Waste Compliance Checklist

Page Trowbridge Ranch Landfill

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Facility Information & Process Top

From 1962 to February 1, 1986, University of Arizona (UA) used Page Trowbridge Ranch Landfill (PTRL) to dispose of low-level radioactive and chemical wastes generated by laboratories at the UA, NAU, ASU, and Veterans Hospital in Tucson. The PTRL site occupies a total of 3.25 acres and consists of two units: Unit A (northern unit) measures 200 feet by 200 feet, and Unit B (southern unit) measures 200 feet by 500 feet. In both units, wastes were placed into individual cells (pits) that were approximately 15 feet deep.

Disposal operations began at Unit B, which from early 1960's received and maintained approval from the Arizona Atomic Energy Commission for disposal of low-level radioactive laboratory wastes. Disposal of mixed wastes at Unit B started in late 1960's, and continued to 1986. Chemical waste disposal cells at Unit B were first used as open neutralization and burn pits; subsequently, they were used for direct burial of chemicals in one- and five-gallon containers (bottles, cans, boxes, bags) and 55-gallon drums packed with adsorbent materials (lab packs). In 1982, Unit A, which was used only for disposal of chemical wastes, replaced Unit B for disposal of hazardous waste only. The unit was designed and operated in accordance with RCRA standards for landfills. The disposal cells were individually double-lined with a chemically resistant synthetic liner. Wastes were received in sealed, 55-gallon drums (DOT 17C). These drums were placed into the cells in single layers, sealed with the plastic liner, and covered with soil. Recordkeeping of wastes disposed in PTRL began in 1978. Based on manifests and earlier disposal records, a total of 80 tons of original containers and 200 tons of lab packs were disposed. This inventory does not include the radioactive wastes or undocumented chemical wastes. The chemical wastes consisted primarily of solvents, ignitable liquids, acids bases, heavy metals, pesticides, and photographic compounds. The landfill was closed in August 1997, in accordance with an approved RCRA closure plan and amendments. Final closure included the following:

- Construction of a single monolithic earthen cover consisting of a 24-inch subgrade with two layers of geogrid; a 24-inch soil infiltration barrier; a 200-mil geonet; and a 24-inch vegetative soil cover.
- Installation of a 6-ft high chain link fence with barbed wire on top;
- Construction of a road network to provide easy access to the facility;
- Construction of storm water channels, and Installation of 36-inch x 22-inch corrugated metal pipe-arch culverts for storm water management;

Following landfill closure, investigations were conducted in 2002, 2003, 2005, and 2007 to evaluate potential impacts of the landfill on subsurface soil, soil vapor, and groundwater in the immediate vicinity of the landfill. The investigations noted that organic vapors were migrating from the landfill cells. In 2004 and 2005, UA submitted workplans for the installation of a soil vapor extraction system located between landfill cells A and B, to remove vapors from the vadose zone. The system commenced operations in June 2006. The calibrated model of vapor diffusion over the history of the landfill operation indicates that with implementation of a soil-vapor extraction system, soil vapor concentrations would likely decline and stabilize in approximately 10 years.

A post-closure permit application was submitted in December 1997, and was approved by ADEQ on November 6, 2001. The permit and subsequent renewals established a 30-year post-closure period for maintenance of PTRL. Post-closure care includes:

- Inspection and maintenance of the covers of the closed landfill unit periodic inspections are performed to monitor final cover integrity, erosion, and woody vegetation growth. Maintenance and repair is performed at the time of inspection or as soon as practicable to original final cover specifications and conditions.
- Inspection and maintenance activities Preventative and corrective maintenance and repair procedures are performed on the perimeter fence, access roads, warning signs, monitor wells, drainage control systems, survey monuments, soil vapor extraction system, and closed landfill unit vegetative covers; Inspection of these items is performed quarterly.
- Groundwater and soil vapor monitoring and reporting a groundwater detection monitoring plan is implemented to periodically collect and analyze groundwater and soil vapor samples from on-site monitoring wells and monitoring points. The measurement of groundwater elevations and implementation of groundwater detection monitoring at the on-site monitoring wells is performed semiannually.

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Physical Inspection

r nysicai inspection
Observations Top
On April 22, at 8:30 am, ADEQ compliance officers, David Janke and Kalie Rumaner, and ADEQ Permit Writer, Mary Cottrell met EHS Manager, Jeff Christensen at PTRL. The spring groundwater-monitoring event occurred at the on-site monitoring wells during the inspection (Photo #7). At the time of the inspection, ADEQ observed erosion on the east side slope of Cell B (Photos #20-22). No action will result at this time. However, the final cover integrity damages must be repaired prior to the next scheduled inspection per the Permit, Part II, B.1(a).

	Key:	C = In Compliance	N = Not in Compliance	N/A = Not Applicable	P = Pending
			Site Security Tor		
1. Are the fac	ility's secu	rity/safety features listed below	w in good shape:		
□ Locks					
Signage Signage	e				
unautho Verify tl Verify tl strands a fence res Verify tl	hat the gate rized acces hat the lock hat no porti are not cut of sulting from	s allow ease of access; verify s to the facility; verify that the s work; on of the fence slumps and the or bent; verify that there are no n burrowing or stormwater flo is present at the gate and appe	that there are no gaps in or under the gebarbed wire is uncut and not bent; at the fencing supports appear to be stropholes or gaps in the fence itself or the two so as to allow for unauthorized acceptants along each side of the border/security.	aight; that the barbed wire at there are no gaps under the ses to the facility;	C: N: N/A: P:
Permit Part II	/ Permit A	ttachment B App B-1 , Permit	t Attachment D		
		ast side of the fence, ADEC	Q observed a small gap in the fenc	e. The gap was fixed at	

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Preparedness & Prevention Top	
1. Does the permittee have available the following required equipment to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment:	
 Communications system (e.g., range radio, cell phone) Device such as a telephone (e.g., landline phone box) 	C: N: N/A: P:
40 CFR § 264.32 / Permit Attachment F	
2. Are portable fire extinguishers stored at the soil vapor extraction system? Are they fully charged? Have they been inspected within the past year?	C: N: N/A: P:
40 CFR § 264.33 / Permit Attachment F	
Post Closure Care Top	
Does the access road leading to the facility allow ease of access?	
NOTE: Verify that the access road (i.e., not including Willow Springs Road) is not washed out or obstructed so as to restrict access by personnel or emergency services.	C: N: N/A: P:
Permit Part II / Permit Attachment B	
2. Are the roads onsite in good condition and free of vegetation?	C: N: N/A: P:
Permit Part II / Permit Attachment B	C: 🖾 N: 🗀 N/A: 🗀 P: 🗀
3. Are the following structures free of damage, erosion and woody vegetation growth?	
⊠ Cell A Cover	
☐ Cell A Side slope	C: N: N N/A: P:
☐ Cell B Cover	C: N: N/A: P: L
☐ Cell B Side slope	
Permit Part II / Permit Attachment B	
Comments: On the east side of Cell B, erosion was observed (Photos #20-22).	
4. Are the survey monuments visible with no visible evidence of tampering?	C: N: N/A: P:
Permit Part II / Permit Attachment B	C: 🖾 N: 🗀 N/A: 🗀 P: 🗀
Hazardous Waste Satellite Accumulation Area Top 1. Are all hazardous waste satellite accumulation containers:	
Located at or near point of initial generation?Under the direct control of operator generating the waste?	C: N: N/A: P: D
40 CFR § 262.34(c)(1)	
2. Are all hazardous waste satellite accumulation containers at or below the 55-gallons limit (or 1-quart of acute hazardous waste) for any one waste stream at any one work station/location?	C: N: N/A: P:
40 CFR § 262.34(c)(1)	
3. Are all hazardous waste satellite accumulation container (s) marked with the words "Hazardous Waste" or other words that identify the contents of the container(s)?	C: N: N/A: P:
40 CFR § 262.34(c)(1)(ii)	

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Hazardous Waste Satellite Accumulation Area Top	
 4. Are all hazardous waste satellite accumulation containers closed? Evidence of: Tight fitting lids Vapor tight/liquid tight Roll-off tarps secured 	
No evidence of: • Lid not secured or missing • Gaskets, lid, bung, vent; damaged, missing • Ring missing • Ring not secured & bolted • Funnel not screwed in tight	C: N: N/A: P:
 Funnel lid not tight, closed Open/loose bung or vent Inappropriate vent, flash arrester, vacuum breaker, pressure relief 40 CFR § 262.34 (c)(1)(i)/40 CFR § 265.173(a) / A.A.C. R18-8-262/A.A.C. R18-8-270(B)(1)	
5. Are all hazardous waste satellite accumulation containers in good condition? No evidence of: • Leaking, spilling, off-gassing • Punctured, holes, broken • Metal corrosion, rust, pitting, thinning; inside & outside • Plastic cut, gouged, heat deformed, softened, thinned • Bulging, creasing, & denting (not restorable to original shape) • Metal fatigue from fire, bending, wear • Chimes separated, bent, open, damaged, unsealed • Body weld open, bent, damaged, defective • Rolling rings dented, creased damaged Note:If not in good condition, transfer the hazardous waste from this container to a container that is in good condition or manage the waste in some other way that complies with the requirements.	C: N: N/A: P:
40 CFR § 262.34 (c)(1)(i)/40 CFR § 265.171	
Is the hazardous waste satellite accumulation container or liner compatible with the waste? (ex. Acids/water solutions in metal drums) 40 CFR § 262.34 (c)(1)(i)/40 CFR § 265.172	C: N: N/A: P:
7. If 55-gallons/1-quart of hazardous waste is exceeded, are the hazardous waste satellite accumulation containers moved to the central accumulation area within 3 days? 40 CFR § 262.34(c)(2)	C: N: N/A: P:
8. Are hazardous waste satellite accumulation containers marked with the accumulation start date as the date the excess amount began accumulating? 40 CFR §262.34(c)(2)	C: N: N/A: P:
Run-on / Run-off Controls Top 1. Are the following structures in good shape?	
Culvert Crossing #1 (located between Cell A and Cell B)	
☐ Culvert Crossing #2 (located on the southeastern end of Cell B)	
☐ 18" CMP Culvert (east of Cell B at the border/security fence)	
☐ 18" CMP Culvert (south of Cell B at the border/security fence)	
☐ Cell A Swales (e.g., ditches and rip-rap)	
☐ Cell B Swales (e.g., ditches, rip-rap, and stormwater depression)	C: N: N N/A: P:
NOTES "In good shape" means: • Gates on 18" CMP culverts must be locked, unobstructed/free of debris. Interior channels of culverts must be clear so as to allow the smooth flow of stormwater. Sediment filters must be staked in place; • Culvert crossings must be free of debris, and interior channels must be clear so as to allow the smooth flow of stormwater. • Swales must not be eroded, damaged, or blocked with debris or excessive vegetation.	C. ZIN: LIN/A: LIP: LI
Permit Part II / Permit Attachment B	

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Corrective Action - Interim Measures Top	
1. Are the following structures used for Interim Measures in good shape?	
GAC Adsorbers (2)	
Solar panel Arrays (2)	
Extraction Blower, Motor, Belt Drive	
☐ Injection Blower, Motor, Belt Drive	
Control Panel / Charge Controller / Load Controller / Inverter	
☐ Battery Array	C: $N: \square N/A: \square P: \square$
☐ Piping	
Condensate Separators (KO-1 and KO-2)	
☐ SGS Condensate Sump	
NOTE: "In good shape" means visually check for obvious physical damage.	
Permit Part III and Permit Attachment C	
2. Are the soil vapor monitoring enclosures in good shape?	
☐ MW #2	
☐ MW #5	
☐ Well SGS	
☐ Probe SGS-SP	
☐ Probes SGD -SP and –MP (collocated)	$C: \boxtimes N: \square N/A: \square P: \square$
☐ Probe SGD-DP (aka SGD-2)	
☐ Well SGD (used for air injection)	
NOTE: "In good shape" means visually check for obvious physical damage.	
Permit Part III / Permit Attachment C	
Cuandwater Manitoring Ton	
Groundwater Monitoring <u>Top</u>	
1 Are the groundwater monitoring well enclosures in good shape?	
1. Are the groundwater monitoring well enclosures in good shape? MW #2	
□ MW #2	
☐ MW #2 ☐ MW #3	
☐ MW #2 ☐ MW #3 ☐ MW #4	C: N: N/A: P:
 MW #2 MW #3 MW #4 MW #5 	C: N: N/A: P:
☐ MW #2 ☐ MW #3 ☐ MW #4	C: N: N/A: P:
☐ MW #2 ☐ MW #3 ☐ MW #4 ☐ MW #5 NOTE: "In good shape" means free of deterioration and/or vandalism, are the well enclosures locked? Are the ADWR	C: N: N/A: P:
☐ MW #2 ☐ MW #3 ☐ MW #4 ☐ MW #5 NOTE: "In good shape" means free of deterioration and/or vandalism, are the well enclosures locked? Are the ADWR IDs and the MW designations present and readable?	C: N: N/A: P:
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Records Review

Records Review	
ADEQ Fees and Annual Report Top 1. Has the permittee registered annually with ADEQ and paid an annual registration fee?	
NOTE: TSDF registration is due March 1st of each year.	C: N: N/A: P:
A.R.S. 49-929.A & B/ A.A.C. R18-8-260.	
2. Has the permittee submitted a timely Facility Annual Report to ADEQ?	
NOTE: The report must be accurate and complete as per 40 CFR § 264.75.	C: N: N/A: P:
A.A.C. R18-8-264.I, Permit Part I.E.12	
Operating Record Top 1. Does the permittee keep a copy of the most up-to-date Operating Record (at UA Risk Management)? Does the facility keep Operating Records for 3 years? The Operating Record must include:	
(a) Most recent copy of the Post-Closure Plan;; [A.A.C. R18-8-264.A (40 CFR 264.73(b)(1) Permit Part I.G, Permit Attachment B]	
(b) Most recent copy of the Contingency Plan; [A.A.C. R18-8-264.A (40 CFR 264.73(b)(2)), Permit Part I.G, Permit Attachment F]	
(c) Personnel training documents; [A.A.C. R18-8-264.A (40 CFR 264.73(b)(3)), Permit Part I.G, Permit Attachment E]	
(d) The summary reports and details of all incidents that require implementing the Contingency Plan (this may be a written record or an electronic record with written report provided upon request by the Director's authorized	
representative); [A.A.C. R18-8-264.A (40 CFR 264.73(b)(4))]	C: N: N/A: P:
(e) The records and results of inspections (this may be a written or an electronic record, however electronic records of any checklist must be identical electronic images of the original written record); [A.A.C. R18-8-264.A (40 CFR 264.73(b)(5)), Permit Part I.G]	
(f) Most recent copy of the EGDMP and EGDMP QAPP; [A.A.C. R18-8-264.A (40 CFR 264.73(b)(6)), Permit Part I.E.9, Permit Part I.G, Permit Attachments G and H]	
☐ (g) The monitoring, testing or analytical data, and corrective action (this may be a written record or an electronic record with written report provided upon request by the Director's authorized representative); [A.A.C. R18-8-264.A (40 CFR 264.73(b)(6)), Permit Part I.E.9, Permit Part I.G] [A.A.C. R18-8-264.A (40 CFR 264.73(b)(9))]	
40 CFR § 264.73 / Permit Part II.J.1	
Waste Analysis <u>Top</u>	
1. Do waste analyses / determinations appropriately characterize wastes generated in association with the post-closure plan for purposes of proper storage, treatment and disposal? Waste determinations may include:	
 Lists of wastes produced Process descriptions Safety Data sheets Raw analytical data and QA/QC documents Sampling plans Analytical results 	
Waste Profile Sheets NOTES: A string to decrease and another account deviate the Providence in the decrease of limited to the providence of the decrease	C: N: N N/A: P:
NOTES: Anticipated generated wastes associated with the Permit may include, but are not limited to: • contaminated soils, contaminated PPE, and investigative-derived wastes resulting from site-wide corrective actions, and	C: Z N: L N/A: L P: L
• liquids removed from the condensate collection drum, condensates from KO-1, or KO-2, and GAC generated at the interim measures response (i.e., SVE) system.	
40 CFR § 264.13 / Permit Part II / Permit Part III and Permit Attachment G / Permit Part IV and Permit Attachment I / Permit Attachment C	
.Contingency Plan <u>Top</u>	
1. Is the Contingency Plan (CP) maintained at the Risk Management Office, and is available to facility personnel?	C: N: N/A: P:
40 CFR § 262.53(a) / A.A.C. R-18-8-270(B)(1) / Permit Part I.G / Permit Part II.I / Permit Attachment F	C. 23 IV. 11/A. 11. 11

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2. Have there been changes to the CP, and has it been submitted as a Permit modification in accordance with 40 CFR 2704.2? 40 CFR § 264.52(c), and 264.54 / Permit Part II.1 / Permit Attachment F 3. Does the CP include an evacuation plan? Are evacuation routes accurately designated in contingency plan? NOTE: The evacuation plan must include signals to begin evacuation, evacuation routes, and alternate evacuation routes. 40 CFR § 264.52(c) / Permit Part II.1 / Permit Attachment F 40 CFR § 264.52(c) / Permit Part III.1 / Permit Attachment F 5. Does the CP include an updated list of required emergency equipment at the facility, including locations, descriptions and relevant capabilities? 40 CFR § 264.52(c) / Permit Part III.1 / Permit Attachment F 5. Does the CP include the names, addresses, and phone numbers (office and home) of all persons qualified as emergency coordinators? NOTE: The primary coordinator must be listed first, and others must be listed in the order in which they will assume responsibility as alternates. 40 CFR § 264.52(d) / Permit Part II.1 / Permit Attachment F 6. Is there, at all times, an emergency coordinator on the premises or on call (able to reach the facility within a short period of time, e.g., two hours)? NOTES: The emergency coordinator must be thoroughly familiar with: 4. All aspects of the contingency plan. 4. All operations and activities at the facility. 4. OCFR § 264.55 / Permit Part III.1 / Permit Attachment F 7. Did the permittee submit the CP and its updates to all police and fire departments, and State and local emergency response teams that may be called upon during an emergency? The plan must specify names of the entiries it is being submitted to the entire facility is the transmittal tentes. 40 CFR § 264.55 / Permit Part III.1 / Permit Attachment F 7. Did the permittee submit the CP and its updates to all police and fire departments, and State and local emergency response teams that may be called upon during an emergency? The plan must specify names of th	Contingency Plan Top		
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 The extent of injuries, if any, An assessment of actual or potential hazards to human health or the environment, where this is applicable; and Estimated quantity and disposition or recovered material that resulted from the incident. 			
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40 CFR § 264.56 / Permit Part II.I /Permit Attachment F			
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J:\WPD\Permits\HWPU\Permit Docs\UA Page Trowbridge Ranch\Permit\Permit 2011\Compliance Checklist\PTRL Compliance Checklist.docm Page **9** of **11**

	Personnel Training Top	
1. Does the permittee maintain the following documents ar	nd records at the facility:	
 The job title for each position at the facility related to filling each job (d)(1); 	o hazardous waste management, and the name of the employee	
	cription must include the requisite skill, education, or other	
qualifications, and duties of facility personnel assigned	ed to each position;	
 A written description of the type and amount of both person filling a position; 	introductory and continuing training that will be given to each	
	ob experience has been given to, and completed by, facility	C: $N: \square N/A: \square P: \square$
personnel.		
NOTE: Training records on current personnel must be kep	ot until closure of the facility. Training records on former	
employees must be kept for at least three years from the da		
40 CFR § 264.16 / A.A.C. R18-8-270(B)(1) /Permit Part II	I.H / Permit Attachment E	
2. Did facility personnel successfully complete a program		
them to perform their duties in a way that ensures the fac	acility's compliance with the requirements of 40 CFR § 265.16	
for handling hazardous waste?		
	I in hazardous waste management procedures, and must include	C: N: N N/A: P:
instruction which teaches facility personnel hazardous was		C. 🖾 IV. 🗀 IV.A. 🗀 I. 🗀
implementation) relevant to the positions in which they are	e employed.	
40 CFR § 264.16(a) / A.A.C. R18-8-270(B)(1)/Permit Part	t II.H / Permit Attachment E	
	g program within six months after the date of their employment	
or assignment to a facility, or to a new position at a facil	lity, whichever is later?	
	regulations must not work in unsupervised positions until they	C: N: N N/A: P:
have completed the training requirements.		
40 CFR § 264.16(b) / A.A.C. R18-8-270(B)(1) / Permit Pa	art II.H / Permit Attachment E	
4. Did facility personnel attend annual review of the initial	l training?	
40 CFR § 264.16(c) / A.A.C. R18-8-270(B)(1) / Permit Pa	art II H /Darmit Attachment E	C: ⊠ N: □ N/A: □ P: □
	art II.II / Fermit Attachment E	
	Inspection Records Top	
Does the permittee maintain quarterly inspection logs of Do the inspections address:	Inspection Records Top	
Does the permittee maintain quarterly inspection logs of Do the inspections address: Signage	Inspection Records Top f the facility structures? Gates and locks	
Does the permittee maintain quarterly inspection logs of Do the inspections address: Signage Communication systems	Inspection Records Top f the facility structures? Gates and locks Drainage structures	C: ⋈ N: □ N/A: □ P: □
Does the permittee maintain quarterly inspection logs of Do the inspections address: Signage	Inspection Records Top f the facility structures? Gates and locks	C: N: N/A: P:
Does the permittee maintain quarterly inspection logs of Do the inspections address:	Inspection Records Top f the facility structures? Gates and locks Drainage structures Perimeter fencing Access roads	C: N: N/A: P:
1. Does the permittee maintain quarterly inspection logs of Do the inspections address: • Signage • Communication systems • Landfill covers • Survey monuments 40 CFR § 264.174 / Permit Part II.G / Permit Part II.J / Permit Part II.D /	Inspection Records Top f the facility structures ? Gates and locks Drainage structures Perimeter fencing Access roads rmit Attachment B	C: N: N/A: P:
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1. Does the permittee maintain quarterly inspection logs of Do the inspections address: Signage Communication systems Landfill covers Survey monuments 40 CFR § 264.174 / Permit Part II.G / Permit Part II.J / Per 2. Are all written logs for the facility structures kept for the inspection, and include the following information:	Inspection Records Top f the facility structures? Gates and locks Drainage structures Perimeter fencing Access roads Top	C: N: N/A: P:
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Inspection Records Top	
4. Does the permittee keep quarterly inspection logs of the Interim Measures (SVE) System	
Do the inspections address:	
 Blower belt drives (PDB-1 and PDB-2) General blower function Vacuum gauges Piping 	$C: \boxtimes N: \square N/A: \square P: \square$
Panel array Blower motors (brushes)	C: M N: L N/A: L P: L
40 CFR § 264.174 / Permit Part II.G / Permit Part II.J / Permit Attachment B / Permit Attachment C	
3. Are all written logs for the Interim Measures (SVE) System kept for three years from the date of the inspection, filled in after each inspection, and include the following information:	
☐ Inspection date	
☐ Inspector's name	
☐ Observation remarks including corrections made	$C: \boxtimes N: \square N/A: \square P: \square$
Coservation remarks including corrections made	C: N: N/A: P: L
NOTE: If deficiencies are found, then facility may be found in non-compliance with duty to inspect, log, keep records, and train staff.	
40 CFR §264.174 / Permit Part II.G / Permit Part II.J / Permit Attachment B / Permit Attachment C	
4. Does the facility inspect the GAC on a semi-annual basis? Does the inspector collect a sample of the process stream	
vapor from the sampling port located in-between the lead and lag GAC adsorber unit?	
ACCORD ACCOUNT OF THE ACCORD AND A STATE OF THE ACCORD ACCORD AND A STATE OF THE ACCORD ACCOR	C: N: N/A: P:
40 CFR § 264.174 /Permit Part II/ Permit Attachment B / Permit Attachment C	
Groundwater Monitoring Records Top	
Does the facility have copies of groundwater monitoring analytical data?	
Note: See also Operating Record, item (g)	C: \boxtimes N: \square N/A: \square P: \square
40 CFR § 264.73 / A.A.C. R18-8-264(A) / Permit Part I.G / Permit Part III.E / Permit Attachment G	C: 🖾 N: 🗀 N/A: 🗀 P: 🗀
40 CFR § 204.757 A.A.C. R10-0-204(A)/ 1 CHIIRT art I.O./ 1 CHIIRT I art III.E/ 1 CHIIRT Attachmicht G	
Soil Vapor Monitoring Records Top	
Does the facility have copies of soil vapor monitoring analytical data?	
Note: See also Operating Record, item (g))	C: N: N/A: P:
Permit Part I.G / Permit Part III.D / Permit Part IV.I.4 / Permit Attachment G	C. 🖾 N. 🗀 N/A. 🗀 F. 🗀
Termit are not a termit and the part of th	
Notifications <u>Top</u>	
1. Has the permittee notified ADEQ in writing of new SWMUs or AOCs?	
Permit Part IV.E.1	C: N: N/A: P:
2. Has the permittee reported issues of noncompliance which may endanger human health or the environment as soon as possible or within twenty-four (24) hours of becoming aware of the circumstances?	
possible of within twenty four (21) nours of seconding aware of the chountstances.	C: N: N/A: P:
Permit Part I.E.12 / Permit Part IV.F.1	
Additional Comments Top	
Click here to enter text.	

Page **11** of **11**

ADEQ Hazardous Waste Inspection Photo Log

Date of Inspection: 4/22/2020

Facility Information

Facility Name: University of Arizona - Page-Trowbridge Ranch Landfill

Facility Location: Latitude: 32.60694 / Longitude: 110.895976

Place ID: 3166

Key Inspectors

Lead Inspector: Kalie Rumaner

Photographer: David R. Janke

Place ID: 3166 Photographer: David R. Janke Date: 4/22/2020



Gate and entrance to the University of Arizona's Page-Trowbridge Ranch Landfill showing signage.

Photo 1



Solar Array SVE Systemlooking from northeast

Photo 2



Solar Array SVE Systemfrom south-southwest on top of Cell B cover

Place ID: 3166 Date: 4/22/2020 Photographer: David R. Janke SGS-P injection access Photo 4 SGD-DP Soil Vapor Sampling Well Photo 5 SGD-DP Soil Vapor Sampling- label on side

Place ID: 3166

Photographer: David R. Janke

Date: 4/22/2020



Monitoring Well #3 as it is being purged

Photo 7



Monitoring Well #2

Photo 8



Monitoring Well #2- label

Place ID: 3166

Photographer: David R. Janke

Date: 4/22/2020



Monitoring Well #4- Cracks in cement foundation. Jeff Christensen stated PTRL has plans to replace concrete slabs under all monitoring wells.

Photo 10



Marker Monument- Near main entrance gate

Photo 11



Marker Monument- Along north fence line

Place ID: 3166 Photographer: David R. Janke Date: 4/22/2020



Marker Monument- Near Well #2

Photo 13



Marker Monument- South of Cell B

Photo 14



Marker Monument-Southwest of Cell B

Place ID: 3166 Photographer: David R. Janke Date: 4/22/2020



Cell A –Hazardous waste waste from southern base

Photo 16



Cell A cover looking north from southern edge

Photo 17



Cell B – Mixed waste from northern base with rip-rap in foreground

Date: 4/22/2020 Place ID: 3166 Photographer: David R. Janke Cell B cover looking east from western edge Photo 19 Main eroded surface of east slope of Cell B Photo 20 Eroded surface of east slope of Cell B north of main eroded area Photo 21

Place ID: 3166

Photographer: David R. Janke

Date: 4/22/2020



Eroded surface from east slope of Cell B looking from ground level

Photo 22



Animal burrow under east side of fence line

Photo 23



Same animal burrow under east side fence line (Photo #20) fixed at the time of the inspection

Place ID: 3166

Photographer: David R. Janke

Date: 4/22/2020



Animal burrows under north side fence line going under cement barrier

Photo 25



Rip-rap north of Cell A from northern edge of Cell A cover

Photo 26



Rip-rap southeast of Cell B from southeast corner of Cell B cover

Place ID: 3166

Photographer: David R. Janke

Date: 4/22/2020



North side view of culvert running under road between cells A and B showing rip-rap

Photo 28



South side view of culvert running under road between cells A and B showing rip-rap

Photo 29



Culvert and rip-rap under road approaching east side of Cell B from the top of Cell B cover

Place ID: 3166 Photographer: David R. Janke Date: 4/22/2020



Culvert and rip-rap along south fence line view from west

Photo 31



Culvert along south fence line showing cover grate

Photo 32



Culvert and rip-rap along west fence line view from south

University of Arizona - Pa Longitude: 110.895976	age-Trowbridge Ranch Lai	ndfill - Latitude: 32.60694 /
Place ID: 3166	Photographer: David R. Janke	Date: 4/22/2020
Photo 34		Culvert and rip-rap along west fence line view from north



ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY FIELD INSPECTION EXIT DEBRIEFING

Site Name/I		Page Trowbrid Landfi		Inspection D	ate:	4/22/2020)		
	Pinal County Sec Junction, AZ 85		R14E, Oracle	Environmen	tal Progr	ram(s):	Hazardous Wa	ste	
You have just Fitle 49; the Ariz deficiencies noted inspector that is northcoming from a aws and rules.	zona Administrat during the inspe- necessary to mak	ive Code; and ction, items you a compliance	d applicable po ou should consi ce determination	ermits/license der for follov on. Be advise	s. The five up action of that a	following ion, or add additional	is intended to litional informa reports and con	summarize tion requeste rrespondence	potential ed by the may be
Please provide tl	he following:								
• Photogr	aphic document	ation that the	erosion on the	e east side of	Cell B is	s filled.			
Fixed at the time	e of the inspection	n:							
Small ar	nimal burrow or	n east side of f	ence was filled	•					
Recommendatio	me•								
	plans to provide	additional ass	sistance to PTI	RL to ensure	the mar	nifest fron	1 8/2019 is uplo	oaded to RC	RA
☐ Additional ar	eas of concern c	an be found o	n the back of t	his form					
	Facility R	<u>epresentative</u>				Inspec	<u>etor</u>		
Name:	Jeffrey Christe	1991		Ka	lie Rum	aner			

Please submit your response to your inspector's attention at the Arizona Department of Environmental Quality 1/10 West Washington

Street, Phoenix, Arizona 85007 or via email.

Signature:



Arizona Department of Environmental Quality



HAZARDOUS WASTE INSPECTION REPORT COVER PAGE

Facility Name: Page-Trowbridge Ranch Landfill	Inspection Report ID No.: 367328 & 367333
EPA ID#: AZD980665814	Date of Inspection: 4/14/2021
Physical Address: Latitude: 32.60694 / Longitude: 110.895976	Announced Inspection: ⊠Yes □No
Responsible Party: University of Arizona - Department of	Reason for Inspection:
Risk Management	⊠ Routine Inspection
Mailing Address: Po Box 210300, Tucson, 85721	□ Follow-Up
Land Owner: Arizona Board of Regents (U of A)	☐ Complaint
Mailing Address: 220 W 6th St, Tucson, AZ 85721	Complaint No.:
On-Site Representative: Jeffrey Christensen	☐ Other: Virtual
Title: EHS Manager	
Phone: (520) 621-1790	
Email: jgchrist@email.arizona.edu	
Lead Inspector: Mario Barrios Accompanied by: David R. Janke and Gav Orman ADEQ Follow-up Contact: Brandon Green Title: Hazardous Waste Compliance Officer Phone: (602) 771-0099 Email: green.brandon@azdeq.gov	
Results of Inspection: ☐ No deficiencies were noted during the course of the inspection of Follow-up action is needed; please submit the requested do Exponential deficiencies were noted during the course of the inspection will be forthcoming. ☐ Deficiencies were noted during the course of the inspection. No ADEQ action will result from this inspection. Attachments: Notice of Inspection Rights	ocumentation, which is detailed on the inspection report. inspection. Additional correspondence regarding this
Small Business Bill of Rights	
Inspection Checklist and Observations	
Photographic Log	
Exit Debriefing	

NOTICE OF INSPECTION RIGHTS

The ADEQ representative(s) identified above were present at the address listed above. Upon entry to the premises, the ADEQ representative(s) met with me, presented photo identification indicating that they are ADEQ employees and explained:

☐ That the purpose of the inspection is to determine compliance with:

Arizona Revised Statutes: Title 49 (The Environment) - Chapter 5 (Hazardous Waste Disposal)

Arizona Administrative Code: <u>Title 18 (Environmental Quality)</u> – Chapter 8 (Hazardous Waste Management)

Code of Federal Regulations: Title 40 - Parts 260 through 273

Hazardous Waste Permit (if applicable):

Hazardous Waste Permit (LTF # 72437)

EPAID facility: AZD 980 665 814

☐ That this inspection is conducted pursuant to the authority granted in Arizona Revised Statutes § 49-104(B)(8) and/or:

Arizona Revised Statutes § 49-144

Arizona Revised Statutes § 41-1009

- ☑ That the state shall not be barred by the statutes of limitations of actions, according to <u>A.R.S. § 12-510</u>, except as provided in <u>A.R.S. § 12-529</u> concerning certain claims based on navigability of watercourses. According to <u>28 U.S.C. § 2462</u>, the U.S. government must commence an action within 5 years after the date the claim first accrued.
- ☑ Possible applicability of Small Business Bill of Rights pursuant to Arizona Revised Statutes § 41-1001(21)
- \boxtimes There is no fee associated with this inspection.
- ☑ Photos will be taken during the inspection.
- ☑ I understand that I can accompany the ADEQ representative(s) on the premises, except during confidential interview.
- ☑ I understand that I have right to, upon request:
 - Copies of any original documents taken by the agency during the inspection.
 - A split of any samples taken during the inspection if the split of any samples would not prohibit an analysis from being conducted or render an analysis inconclusive.
 - ➤ Copies of any analysis performed on samples taken during the inspection.
 - > Copies of any documents to be relied on to determine compliance with licensure or regulatory requirements if the agency is otherwise permitted by law to do so.

□ I understand that:

- Each person who is interviewed by an ADEQ inspector during the inspection must be informed that:
 - 1) Statements made by the person may be included in the inspection report.
 - 2) That conversation with an agency inspector during the inspection are being tape recorded.
 - 3) Participation in an interview is voluntary, unless legally compelled to participate in the interview.
 - 4) The person is allowed at least twenty-four hours to review and revise any written witness statement that is drafted by the agency inspector which the agency inspector requests the person's signature.
 - 5) The agency inspector may not prohibit the regulated person from having an attorney or any other experts in their field present during the interview to represent or advise the regulated person.
 - 6) The agency inspector may not take any adverse action, treat the regulated person less favorably or draw any inference as a result of the regulated person's decision to be represented by an attorney or advised by any other experts in their field.
- > That the information and documents provided to the agency inspector become a public record, the regulated person may redact trade secrets and proprietary and confidential information unless the information and documents are confidential pursuant to statute.
- ➤ If an administrative order is issued or a permit decision is made based on the results of the inspection, I have the right to appeal that administrative order or permit decision. I understand that my administrative hearing rights are set forth in <u>Arizona Revised Statutes: Title 41 (State Government)</u> Chapter 6 (Administrative Procedure) Article 10 (Uniform Administrative Hearing Procedures) <u>41-1092.03</u> and my rights relating to an appeal of a final agency decision are found in <u>Arizona Revised Statutes: Title 41 (State Government)</u> Chapter 6 (Administrative Procedure) Article 10 (Uniform Administrative Hearing Procedures) <u>41-1092.08</u>

Additional information:

- ➤ If I have any questions or concerns about this inspection, I may contact the person listed as the ADEQ Follow-up Contact on the front of this form.
- ➤ ADEQ Hazardous Waste Unit Manager (602) 771-0381 or toll free at (800) 234-5677.
- > ADEQ Community Liaison Ombudsman (602) 771-2288 or toll free at (800) 234-5677.
- ➤ The <u>Arizona Ombudsman Citizens' Aide</u> office at (602) 277-7292 or toll free at (800) 872-2879 (outside Phoenix metro area). <u>Arizona Revised Statutes: Title 41 (State Government)</u> Chapter 8 (Agencies of the Legislative Department) Article 5 (Office of Ombudsman-Citizens Aide).
- ➤ If I have any questions concerning my rights to appeal an administrative order or permit decision, I may also contact ADEQ's Office of Administrative Counsel at (602) 771-2212 or toll free at (800) 234-5677.

Whi	ile I have the right to refuse to sign this form, the ADEQ representative	es may still p	roceed with the inspection.
\boxtimes	By signing below I acknowledge that have read, understand, and discrepresentative(s) about the statutes.	cussed any qu	uestions or concerns with ADEQ
Prin	ed Name: Jeffrey Skristensen		
		Date:	4/14/2021
Sigr	nature of Regulated Person or Authorized On-Site Representative		
Prin	ted Name: Mario Barrios		

Signa	ature of ADEQ Representative
	The regulated person or authorized on-site representative refused to sign.
	The regulated person or an authorized on-site representative was not present at the facility.

SMALL BUSINESS BILL OF RIGHTS

A.R.S. 41-1001.01. Regulatory bill of rights; small businesses

- A. To ensure fair and open regulation by state agencies, a person:
- 1. Is eligible for reimbursement of fees and other expenses if the person prevails by adjudication on the merits against an agency in a court proceeding regarding an agency decision as provided in section 12-348.
- 2. Is eligible for reimbursement of the person's costs and fees if the person prevails against any agency in an administrative hearing as provided in section 41-1007.
- 3. Is entitled to have an agency not charge the person a fee unless the fee for the specific activity is expressly authorized as provided in section 41-1008.
- 4. Is entitled to receive the information and notice regarding inspections and audits prescribed in section 41-1009.
- 5. May review the full text or summary of all rulemaking activity, the summary of substantive policy statements and the full text of executive orders in the register as provided in article 2 of this chapter.
- 6. May participate in the rulemaking process as provided in articles 3, 4, 4.1 and 5 of this chapter, including:
- (a) Providing written comments or testimony on proposed rules to an agency as provided in section 41-1023 and having the agency adequately address those comments as provided in section 41-1052, subsection D, including comments or testimony concerning the information contained in the economic, small business and consumer impact statement.
- (b) Filing an early review petition with the governor's regulatory review council as provided in article 5 of this chapter.
- (c) Providing written comments or testimony on rules to the governor's regulatory review council during the mandatory sixty-day comment period as provided in article 5 of this chapter.
- 7. Is entitled to have an agency not base a licensing decision in whole or in part on licensing conditions or requirements that are not specifically authorized by statute, rule or state tribal gaming compact as provided in section 41-1030, subsection B.
- 8. Is entitled to have an agency not make a rule under a specific grant of rulemaking authority that exceeds the subject matter areas listed in the specific statute or not make a rule under a general grant of rulemaking authority to supplement a more specific grant of rulemaking authority as provided in section 41-1030, subsection C.
- 9. May allege that an existing agency practice or substantive policy statement constitutes a rule and have that agency practice or substantive policy statement declared void because the practice or substantive policy statement constitutes a rule as provided in section 41-1033.
- 10. May file a complaint with the administrative rules oversight committee concerning:
- (a) A rule's, practice's or substantive policy statement's lack of conformity with statute or legislative intent as provided in section 41-1047.
- (b) An existing statute, rule, practice alleged to constitute a rule or substantive policy statement that is alleged to be duplicative or onerous as provided in section 41-1048.
- 11. May have the person's administrative hearing on contested cases and appealable agency actions heard by an independent administrative law judge as provided in articles 6 and 10 of this chapter.

- 12. May have administrative hearings governed by uniform administrative appeal procedures as provided in articles 6 and 10 of this chapter and may appeal a final administrative decision by filing a notice of appeal pursuant to title 12, chapter 7, article 6.
- 13. May have an agency approve or deny the person's license application within a predetermined period of time as provided in article 7.1 of this chapter.
- 14. Is entitled to receive written notice from an agency on denial of a license application:
- (a) That justifies the denial with references to the statutes or rules on which the denial is based as provided in section 41-1076.
- (b) That explains the applicant's right to appeal the denial as provided in section 41-1076.
- 15. Is entitled to receive information regarding the license application process before or at the time the person obtains an application for a license as provided in sections 41-1001.02 and 41-1079.
- 16. May receive public notice and participate in the adoption or amendment of agreements to delegate agency functions, powers or duties to political subdivisions as provided in section 41-1026.01 and article 8 of this chapter.
- 17. May inspect all rules and substantive policy statements of an agency, including a directory of documents, in the office of the agency director as provided in section 41-1091.
- 18. May file a complaint with the office of the ombudsman-citizens aide to investigate administrative acts of agencies as provided in chapter 8, article 5 of this title.
- 19. Unless specifically authorized by statute, may expect state agencies to avoid duplication of other laws that do not enhance regulatory clarity and to avoid dual permitting to the extent practicable as prescribed in section 41-1002.
- 20. May have the person's administrative hearing on contested cases pursuant to title 23, chapter 2 or 4 heard by an independent administrative law judge as prescribed by title 23, chapter 2 or 4.
- 21. Pursuant to section 41-1009, subsection E, may correct deficiencies identified during an inspection unless otherwise provided by law.
- B. The enumeration of the rights listed in subsection A of this section does not grant any additional rights that are not prescribed in the sections referenced in subsection A of this section.
- C. Each state agency that conducts audits, inspections or other regulatory enforcement actions pursuant to section 41-1009 shall create and clearly post on the agency's website a small business bill of rights. The agency shall create the small business bill of rights by selecting the applicable rights prescribed in this section and section 41-1009 and any other agency-specific statutes and rules. The agency shall provide a written document of the small business bill of rights to the authorized on-site representative of the regulated small business. In addition to the rights listed in this section and section 41-1009, the agency notice of the small business bill of rights shall include the process by which a small business may file a complaint with the agency employees who are designated to assist members of the public or regulated community pursuant to section 41-1006. The notice must provide the contact information of the agency's designated employees. The agency notice must also state that if the regulated person has already made a reasonable effort with the agency to resolve the problem and still has not been successful, the regulated person may contact the office of ombudsman-citizens aide.



ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

HAZARDOUS WASTE UNIT COMPLIANCE CHECKLIST

Hazardous Waste Permit (LTF # 72437)

University of Arizona - Page Trowbridge Ranch Landfill

EPA ID No. AZD 980 665 814

This checklist is provided as a tool for permit holders and ADEQ staff to have a consistent understanding of significant compliance expectations under this permit. This checklist is designed to be easy to read and follow. This list does not include every permit condition and permit holders should ensure they understand the full requirements of their permit. This list does not supplant or supersede any legal requirement and is not binding on the permit holder or ADEQ staff.

FACILITY NAME:	Page Trowbridge Ranch Landfill
EPA ID NUMBER:	AZD 980 665 814
PLACE ID NUMBER:	3166
	T9S, R14E, S½ of Section 27 and N½ of S34, Gila and Salt River
STREET ADDRESS:	Base & Meridian; Lat 32° 36' 50" N, Long 110° 53' 30" W
CITY/STATE/ZIP:	Pinal County, AZ
TELEPHONE NUMBER:	(520) 621-3706
	University of Arizona, Risk Management Services
	P.O. Box 210300
MAILING ADDRESS:	Tucson, AZ 85721-0300

Inspection

Date: April 14, 2021 Date of Last Inspection: 4/22/2020

NOTE: Any omissions in this report and any accompanying notices shall not be construed as a determination of compliance with applicable regulations. Any regulatory citations to 40 CFR are as adopted by the Arizona Administrative Code, A.A.C. R18-8-201 *et seq.* Photographs available upon request.

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Hazardous Waste Compliance Checklist

Page Trowbridge Ranch Landfill

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Facility Information & Process Top

From 1962 to February 1, 1986, University of Arizona (UA) used Page Trowbridge Ranch Landfill (PTRL) to dispose of low-level radioactive and chemical wastes generated by laboratories at the UA, NAU, ASU, and Veterans Hospital in Tucson. The PTRL site occupies a total of 3.25 acres and consists of two units: Unit A (northern unit) measures 200 feet by 200 feet, and Unit B (southern unit) measures 200 feet by 500 feet. In both units, wastes were placed into individual cells (pits) that were approximately 15 feet deep.

Disposal operations began at Unit B, which from early 1960's received and maintained approval from the Arizona Atomic Energy Commission for disposal of low-level radioactive laboratory wastes. Disposal of mixed wastes at Unit B started in late 1960's, and continued to 1986. Chemical waste disposal cells at Unit B were first used as open neutralization and burn pits; subsequently, they were used for direct burial of chemicals in one- and five-gallon containers (bottles, cans, boxes, bags) and 55-gallon drums packed with adsorbent materials (lab packs). In 1982, Unit A, which was used only for disposal of chemical wastes, replaced Unit B for disposal of hazardous waste only. The unit was designed and operated in accordance with RCRA standards for landfills. The disposal cells were individually double-lined with a chemically resistant synthetic liner. Wastes were received in sealed, 55-gallon drums (DOT 17C). These drums were placed into the cells in single layers, sealed with the plastic liner, and covered with soil. Recordkeeping of wastes disposed in PTRL began in 1978. Based on manifests and earlier disposal records, a total of 80 tons of original containers and 200 tons of lab packs were disposed. This inventory does not include the radioactive wastes or undocumented chemical wastes. The chemical wastes consisted primarily of solvents, ignitable liquids, acids bases, heavy metals, pesticides, and photographic compounds. The landfill was closed in August 1997, in accordance with an approved RCRA closure plan and amendments. Final closure included the following:

- Construction of a single monolithic earthen cover consisting of a 24-inch subgrade with two layers of geogrid; a 24-inch soil infiltration barrier; a 200-mil geonet; and a 24-inch vegetative soil cover.
- Installation of a 6-ft high chain link fence with barbed wire on top;
- Construction of a road network to provide easy access to the facility;
- Construction of storm water channels, and Installation of 36-inch x 22-inch corrugated metal pipe-arch culverts for storm water management;

Following landfill closure, investigations were conducted in 2002, 2003, 2005, and 2007 to evaluate potential impacts of the landfill on subsurface soil, soil vapor, and groundwater in the immediate vicinity of the landfill. The investigations noted that organic vapors were migrating from the landfill cells. In 2004 and 2005, UA submitted workplans for the installation of a soil vapor extraction system located between landfill cells A and B, to remove vapors from the vadose zone. The system commenced operations in June 2006. The calibrated model of vapor diffusion over the history of the landfill operation indicates that with implementation of a soil-vapor extraction system, soil vapor concentrations would likely decline and stabilize in approximately 10 years.

A post-closure permit application was submitted in December 1997, and was approved by ADEQ on November 6, 2001. The permit and subsequent renewals established a 30-year post-closure period for maintenance of PTRL. Post-closure care includes:

- Inspection and maintenance of the covers of the closed landfill unit periodic inspections are performed to monitor final cover integrity, erosion, and woody vegetation growth. Maintenance and repair is performed at the time of inspection or as soon as practicable to original final cover specifications and conditions.
- Inspection and maintenance activities Preventative and corrective maintenance and repair procedures are performed on the perimeter fence, access roads, warning signs, monitor wells, drainage control systems, survey monuments, soil vapor extraction system, and closed landfill unit vegetative covers; Inspection of these items is performed quarterly.
- Groundwater and soil vapor monitoring and reporting a groundwater detection monitoring plan is implemented to periodically collect and analyze groundwater and soil vapor samples from on-site monitoring wells and monitoring points. The measurement of groundwater elevations and implementation of groundwater detection monitoring at the on-site monitoring wells is performed semiannually.

Click here to enter text.

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Physical Inspection

<u>i nysicai inspection</u>	
During the physical inspection ADEQ inspectors observed that the: 1. The SGD DP well lock was not working; 2. A 160 – 200 foot length of perimeter fence without any signage; 3. Culvert sediment filters not staked in place nor in good condition; 4. Woody vegetation growth on top of Cell A cover (mesquite tree); 5. Vegetation along the perimeter fence on the east side of the property.	
Key: $C = In Compliance$ $N = Not in Compliance$ $N/A = Not Applicable$	P = Pending
Site Security Top	
1. Are the facility's security/safety features listed below in good shape: ☐ Gates ☐ Locks ☐ Fence ☐ Signage NOTES: "In good shape" means: • Verify that the gates allow ease of access; verify that there are no gaps in or under the gate that would allow unauthorized access to the facility; verify that the barbed wire is uncut and not bent; • Verify that the locks work; • Verify that no portion of the fence slumps and that the fencing supports appear to be straight; that the barbed wire strands are not cut or bent; verify that there are no holes or gaps in the fence itself or that there are no gaps under the fence resulting from burrowing or stormwater flow so as to allow for unauthorized access to the facility; • Verify that signage is present at the gate and appears along each side of the border/security fence with lettering that is readable at 25 feet. Permit Part II / Permit Attachment B App B-1, Permit Attachment D	C: □ N: ⊠ N/A: □ P: □
During the physical inspection, ADEQ inspectors observed an insufficient number of security	✓ Comment?
signs along the west side of the nerimeter tence	Rained C C

Rev. March 30, 2020 Page **4** of **11**

Preparedness & Prevention Top	
1. Does the permittee have available the following required equipment to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment:	
 Communications system (e.g., range radio, cell phone) Device such as a telephone (e.g., landline phone box) 	C: ⊠ N: □ N/A: □ P: □
40 CFR § 264.32 / Permit Attachment F	
2. Are portable fire extinguishers stored at the soil vapor extraction system? Are they fully charged? Have they been inspected within the past year?	C: N: N/A: P:
40 CFR § 264.33 / Permit Attachment F	
Post Closure Care <u>Top</u>	
Does the access road leading to the facility allow ease of access?	
NOTE: Verify that the access road (i.e., not including Willow Springs Road) is not washed out or obstructed so as to restrict access by personnel or emergency services.	C: N: N/A: P:
Permit Part II / Permit Attachment B	
2. Are the roads onsite in good condition and free of vegetation?	
Permit Part II / Permit Attachment B	C: $N: N N/A: P: $
3. Are the following structures free of damage, erosion and woody vegetation growth? ☐ Cell A Cover ☐ Cell A Side slope ☐ Cell B Cover ☐ Cell B Side slope	C: N: N/A: P:
Permit Part II / Permit Attachment B	
Comments: During the physical inspection, ADEQ inspectors observed a mesquite tree growing through Cell A Cover.	✓ Comment?
4. Are the survey monuments visible with no visible evidence of tampering?	C: N: N/A: P:
Permit Part II / Permit Attachment B	C: 🔼 N: 🗀 N/A: 🗀 P: 🗀
Hazardous Waste Satellite Accumulation Area Top 1. Are all hazardous waste satellite accumulation containers:	
 Located at or near point of initial generation? Under the direct control of operator generating the waste? 	C: N: N/A: P:
40 CFR § 262.34(c)(1)	
2. Are all hazardous waste satellite accumulation containers at or below the 55-gallons limit (or 1-quart of acute hazardous waste) for any one waste stream at any one work station/location?	C: N: N/A: P:
40 CFR § 262.34(c)(1)	
3. Are all hazardous waste satellite accumulation container (s) marked with the words "Hazardous Waste" or other words that identify the contents of the container(s)?	C: ☐ N: ☐ N/A: ☒ P: ☐
40 CFR § 262.34(c)(1)(ii)	

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J:\WPD\Permits\HWPU\Permit Docs\UA Page Trowbridge Ranch\Permit\Permit 2011\Compliance Checklist\PTRL Compliance Checklist.docm Page **5** of **11**

Hazardous Waste Satellite Accumulation Area Top	
4. Are all hazardous waste satellite accumulation containers closed? Evidence of: • Tight fitting lids • Vapor tight/liquid tight • Roll-off tarps secured No evidence of:	
Lid not secured or missing Gaskets, lid, bung, vent; damaged, missing Ring missing Ring not secured & bolted Funnel not screwed in tight Funnel lid not tight, closed Open/loose bung or vent Inappropriate vent, flash arrester, vacuum breaker, pressure relief	C: N: N/A: P:
40 CFR § 262.34 (c)(1)(i)/40 CFR § 265.173(a) / A.A.C. R18-8-262/A.A.C. R18-8-270(B)(1)	
5. Are all hazardous waste satellite accumulation containers in good condition? No evidence of: Leaking, spilling, off-gassing Punctured, holes, broken Metal corrosion, rust, pitting, thinning; inside & outside Plastic cut, gouged, heat deformed, softened, thinned Bulging, creasing, & denting (not restorable to original shape) Metal fatigue from fire, bending, wear Chimes separated, bent, open, damaged, unsealed Body weld open, bent, damaged, defective Rolling rings dented, creased damaged Note:If not in good condition, transfer the hazardous waste from this container to a container that is in good condition or manage the waste in some other way that complies with the requirements.	C: N: N/A: P:
6. Is the hazardous waste satellite accumulation container or liner compatible with the waste? (ex. Acids/water solutions in metal drums)	C: N: N N/A: P: N
40 CFR § 262.34 (c)(1)(i)/40 CFR § 265.172	C: L N: L N/A: A P: L
7. If 55-gallons/1-quart of hazardous waste is exceeded, are the hazardous waste satellite accumulation containers moved to the central accumulation area within 3 days?	C: N: N/A: P:
40 CFR § 262.34(c)(2)	
8. Are hazardous waste satellite accumulation containers marked with the accumulation start date as the date the excess amount began accumulating?	C: N: N/A: P:
40 CFR §262.34(c)(2)	
Run-on / Run-off Controls Top 1. Are the following structures in good shape?	C: □ N: ⊠ N/A: □ P: □
Comments: During the physical inspection, ADEQ inspectors observed that culvert sediment filters were not staked in place nor in good condition.	Comment?

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Corrective Action - Interim Measures <u>Top</u>	
1. Are the following structures used for Interim Measures in good shape?	
☐ GAC Adsorbers (2)	
Solar panel Arrays (2)	
Extraction Blower, Motor, Belt Drive	
☐ Injection Blower, Motor, Belt Drive	
Control Panel / Charge Controller / Load Controller / Inverter	
☐ Battery Array	C: N: N N/A: P:
☐ Piping	
☐ Condensate Separators (KO-1 and KO-2)	
☐ SGS Condensate Sump	
NOTE: "In good shape" means visually check for obvious physical damage.	
Permit Part III and Permit Attachment C	
2. Are the soil vapor monitoring enclosures in good shape?	
⊠ MW #2	
⊠ MW #5	
⊠ Well SGS	
☐ Probe SGS-SP	
☐ Probes SGD -SP and –MP (collocated)	C: $N: \square N/A: \square P: \square$
☐ Probe SGD-DP (aka SGD-2)	
⊠ Well SGD (used for air injection)	
NOTE: "In good shape" means visually check for obvious physical damage.	
Permit Part III / Permit Attachment C	
Groundwater Monitoring Top	
1. Are the groundwater monitoring well enclosures in good shape?	
1. Are the groundwater monitoring well enclosures in good shape? ☐ MW #2	
1. Are the groundwater monitoring well enclosures in good shape? MW #2 MW #3	
1. Are the groundwater monitoring well enclosures in good shape? ☐ MW #2	
1. Are the groundwater monitoring well enclosures in good shape? MW #2 MW #3 MW #4 MW #5	C: ⋈ N: □ N/A: □ P: □
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Records Review

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ADEQ Fees and Annual Report Top NOTE: TSDF registration is due March 1th of each year. A.R.S. 49-929.A & B M.A.C. R18-8-260. 2. Has the permittee submitted a timely Facility Annual Report to ADEQ? NOTE: The report must be accurate and complete as per 40 CFR § 264.75. A.A.C. R18-8-264.I, Permit Part LE.12 Operating Record Top L. Does the permittee keep a copy of the most up-to-date Operating Record (at LA Risk Management)? Does the facility keep Operating Records for 3 years? The Operating Record and LA Risk Management)? Does the facility keep Operating Records for 7 years? The Operating Record must include: Operating Records for 7 years? The Operating Record must include: Operating Record Top Operating Record
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plan for purposes of proper storage, treatment and disposal? Waste determinations may include:
 Lists of wastes produced Process descriptions Raw analytical data and QA/QC documents Sampling plans
Safety Data sheets Analytical results
Waste Profile Sheets
NOTES: Anticipated generated wastes associated with the Permit may include, but are not limited to: • contaminated soils, contaminated PPE, and investigative-derived wastes resulting from site-wide corrective actions,
 and liquids removed from the condensate collection drum, condensates from KO-1, or KO-2, and GAC generated at the
interim measures response (i.e., SVE) system.
40 CFR § 264.13 / Permit Part II / Permit Part III and Permit Attachment G / Permit Part IV and Permit Attachment I / Permit Attachment C
Confingency Plan Lon
1. Is the Contingency Plan (CP) maintained at the Risk Management Office, and is available to facility personnel? C: N: N/A: P:

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Contingency Plan Top			
2. Have there been changes to the CP, and has it been submitted as a Permit modification in accordance with 40 CFR			
270.42 ?	C: \boxtimes N: \square N/A: \square P: \square		
40 CFR § 264.52(e), and 264.54 / Permit Part II.I / Permit Attachment F			
3. Does the CP include an evacuation plan? Are evacuation routes accurately designated in contingency plan?			
NOTE: The evacuation plan must include signals to begin evacuation, evacuation routes, and alternate evacuation routes.	C: N: N/A: P:		
40 CFR § 265.52(f) / Permit Part II.I / Permit Attachment F			
4. Does the CP include an updated list of required emergency equipment at the facility, including locations, descriptions			
and relevant capabilities?	C: N: N/A: P:		
40 CFR § 264.52(e) / Permit Part II.I / Permit Attachment F			
5. Does the CP include the names, addresses, and phone numbers (office and home) of all persons qualified as emergency			
coordinators?			
NOTE The minute of the state of			
NOTE: The primary coordinator must be listed first, and others must be listed in the order in which they will assume responsibility as alternates.	C: N: N/A: P:		
40 CFR § 264.52(d) / Permit Part II.I / Permit Attachment F			
6. Is there, at all times, an emergency coordinator on the premises or on call (able to reach the facility within a short			
period of time, e.g., two hours)?			
NOTES:			
The emergency coordinator must be thoroughly familiar with:			
 All aspects of the contingency plan. All operations and activities at the facility. 	C: N: N N/A: P: D		
Location and characteristics of all waste.	C: M N: L N/A: L P: L		
Location of all records.			
• Layout of the entire facility. The emergency coordinator must have the authority to commit the resources needed to carry out the CP.			
The emergency coordinator must have the authority to commit the resources needed to carry out the Cr.			
40 CFR § 264.55 / Permit Part II.I / Permit Attachment F			
7. Did the permittee submit the CP and its updates to all police and fire departments, and State and local emergency			
response teams that may be called upon during an emergency? The plan must specify names of the entities it is being submitted to. The facility must have copies of the transmittal letters.	C: N: N N/A: P:		
submitted to. The facility must have copies of the transmittal fetters.	C: N: N/A: P: L		
40 CFR § 264.53(b)/ Permit Part II.I / Permit Attachment F			
8. Has the facility had a release, fire or explosion and/or implemented the CP? Did the facility immediately notify the			
ADEQ Emergency Response Unit ((602) 771-2330 or (800) 234-5677) and either the on-scene government coordinator for the geographical area or the National Response Center (800) 424-8802? Responses may be made for copies of 15-			
day written reports and operating logs with records of spills and incidents, including those requiring fire department or			
9-1-1 assistance.			
The reports must include:			
 Name, address, and telephone number of the owner or operator; Name, address, and telephone number of the facility; 	C: N: N/A: P:		
Date, time, and type of incident (e.g., fire, explosion);	C:		
Name and quantity of material(s) involved; The state of the stat			
 The extent of injuries, if any, An assessment of actual or potential hazards to human health or the environment, where this is applicable; and 			
Estimated quantity and disposition or recovered material that resulted from the incident.			
40 CFR § 264.56 / Permit Part II.I /Permit Attachment F			

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J:\WPD\Permits\HWPU\Permit Docs\UA Page Trowbridge Ranch\Permit\Permit 2011\Compliance Checklist\PTRL Compliance Checklist.docm Page **9** of **11**

	Personnel Training Top	
1. Does the permittee maintain the following documents	and records at the facility:	
 The job title for each position at the facility related the filling each job (d)(1); 	to hazardous waste management, and the name of the employee	
	scription must include the requisite skill, education, or other	
qualifications, and duties of facility personnel assign	ned to each position;	
A written description of the type and amount of both	h introductory and continuing training that will be given to each	
person filling a position; • Records that document that the required training or	job experience has been given to, and completed by, facility	C: N: N/A: P:
personnel.	joo enpenense nue eeen grien te, und eempresed ej, nuemij	
NOTE To the state of the state	and the second of the second o	
employees must be kept for at least three years from the c	pt until closure of the facility. Training records on former	
employees must be kept for at least time years from the	ate the employee hast worked at the facility.	
40 CFR § 264.16 / A.A.C. R18-8-270(B)(1) /Permit Part	II.H / Permit Attachment E	
	n of classroom instruction or on the job training that teaches	
them to perform their duties in a way that ensures the f for handling hazardous waste?	acility's compliance with the requirements of 40 CFR § 265.16	
for handling nazardous waste:		
	d in hazardous waste management procedures, and must include	C: N: N N/A: P:
instruction which teaches facility personnel hazardous wa		
implementation) relevant to the positions in which they a	re employed.	
40 CFR § 264.16(a) / A.A.C. R18-8-270(B)(1)/Permit Pa	rt II.H / Permit Attachment E	
3. Did facility personnel successfully complete the trainir	ng program within six months after the date of their employment	
or assignment to a facility, or to a new position at a fac		
NOTE: Employees himd often the effective data of these	manulations may at mot vessely in an armonical monitions and there	
have completed the training requirements.	regulations must not work in unsupervised positions until they	C: N: N/A: P:
nave completed the training requirements.		
40 CFR § 264.16(b) / A.A.C. R18-8-270(B)(1) / Permit 1	Part II.H / Permit Attachment E	
4. Did facility personnel attend annual review of the initia	al training?	
40 CED \$ 264 16(a) / A A C D18 \$ 270(B)(1) / Darmit D	1- 4 II II /Damait Attachmant E	C: ☐ N: ☒ N/A: ☐ P: ☐
40 CFR § 264.16(c) / A.A.C. R18-8-270(B)(1) / Permit P	art II.H /Perinit Attachment E	
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During records review, ADEQ inspectors discontraining for personnel. 1. Does the permittee maintain quarterly inspection logs of Do the inspections address: Signage Communication systems Landfill covers Survey monuments 40 CFR § 264.174 / Permit Part II.G / Permit Part II.J / Permit Part and include the following information: Inspection, and include the following information: Inspector's name Inspector's signature NOTE: If deficiencies are found, then facility may be for and train staff. 40 CFR § 264.174 / Permit Part II.G / Permit Part II.J / Permit Part II.J / Permit Part II.J / Permit Part II.G / Permit Part II.J / Permit	Inspection Records Top of the facility structures? • Gates and locks • Drainage structures • Perimeter fencing • Access roads ermit Attachment B hree years from the date of the inspection, filled in after each ☐ Observation remarks ☐ Corrections made ☐ Date corrections completed und in non-compliance with duty to inspect, log, keep records, ermit Attachment B Interim Measures (SVE) System • Blowers and blower motors	C: ⊠ N: □ N/A: □ P: □
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During records review, ADEQ inspectors discontraining for personnel. 1. Does the permittee maintain quarterly inspection logs of Do the inspections address: Signage Communication systems Landfill covers Survey monuments 40 CFR § 264.174 / Permit Part II.G / Permit Part II.J / Permit Part inspection, and include the following information: Inspection date Inspector's name Inspector's signature NOTE: If deficiencies are found, then facility may be for and train staff. 40 CFR §264.174 / Permit Part II.G / Permit Part II.J / Permit Part II.J / Permit Part II.J / Permit Part II.G / Permit Part II.J / Permit Part	Inspection Records Top of the facility structures? • Gates and locks • Drainage structures • Perimeter fencing • Access roads ermit Attachment B hree years from the date of the inspection, filled in after each ☐ Observation remarks ☐ Corrections made ☐ Date corrections completed und in non-compliance with duty to inspect, log, keep records, ermit Attachment B Interim Measures (SVE) System • Blowers and blower motors • Electrical system	C: ⊠ N: □ N/A: □ P: □
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Inspection Records Top	
4. Does the permittee keep quarterly inspection logs of the Interim Measures (SVE) System	
Do the inspections address:	
 Blower belt drives (PDB-1 and PDB-2) General blower function Vacuum gauges Piping 	C: N: N N/A: P:
Panel array Blower motors (brushes)	C: M N: L N/A: L P: L
40 CFR § 264.174 / Permit Part II.G / Permit Part II.J / Permit Attachment B / Permit Attachment C	
3. Are all written logs for the Interim Measures (SVE) System kept for three years from the date of the inspection, filled	
in after each inspection, and include the following information:	
☐ Inspection date	
☐ Inspector's name	
☐ Observation remarks including corrections made	C: \square N: \square N/A: \square P: \square
	C: 🖾 N: 🗀 N/A: 🗀 P: 🗀
NOTE: If deficiencies are found, then facility may be found in non-compliance with duty to inspect, log, keep records,	
and train staff.	
40 CFR §264.174 / Permit Part II.G / Permit Part II.J / Permit Attachment B / Permit Attachment C	
4. Does the facility inspect the GAC on a semi-annual basis? Does the inspector collect a sample of the process stream	
vapor from the sampling port located in-between the lead and lag GAC adsorber unit?	
	C: $N: N: P: $
40 CFR § 264.174 /Permit Part II/ Permit Attachment B / Permit Attachment C	
Groundwater Monitoring Records Top	
1. Does the facility have copies of groundwater monitoring analytical data?	
Note: See also Operating Record, item (g)	C: N: N/A: P:
40 CED \$ 264.72 / A. A. C. D.1.9. \$ 264(A) / Domesit Boot I. C. / Domesit Boot III. E. / Domesit Attachment C.	C: 🔼 N: 🗀 N/A: 🗀 P: 🗀
40 CFR § 264.73 / A.A.C. R18-8-264(A) / Permit Part I.G / Permit Part III.E / Permit Attachment G	
Soil Vapor Monitoring Records <u>Top</u>	
1. Does the facility have copies of soil vapor monitoring analytical data?	
Note: See also Operating Record, item (g))	C: \boxtimes N: \square N/A: \square P: \square
Permit Part I.G / Permit Part III.D / Permit Part IV.I.4 / Permit Attachment G	C. Z N. L N/A. L 1. L
Notifications Top	
1. Has the permittee notified ADEQ in writing of new SWMUs or AOCs?	
Permit Part IV.E.1	C: $N: N: P: $
2. Has the permittee reported issues of noncompliance which may endanger human health or the environment as soon as	
possible or within twenty-four (24) hours of becoming aware of the circumstances?	
	C: \square N: \square N/A: \bowtie P: \square
Permit Part I.E.12 / Permit Part IV.F.1	
Additional Comments Top	
Click here to enter text	

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Hazardous Waste Field Inspection Report

LARGE QUANTITY GENERATORS (LQGs)

Inspection Date: April 14, 2021 **Date of Last Inspection:** April 22, 2020

INDEPENDENT REQUIREMENTS

	Key:	Y = Yes	N = No	N/A = Not Applicabl	e P	= Pending
A.A.C	C. R18-8-262 / A.R	R.S. §§ 49-929 &	& 49-931 / 40 CF	R § 262 Subpart A - F	rimary (Generator Requirements
1. Did t	he Generator:					
•	Identify each solid w		•			$Y: \boxtimes N: \square N/A: \square P: \square$
•	Make an accurate ha			aste stream? three years from the date that	the waste	Comment?
	was last sent to treat			inice years from the date that	the waste	
2 Did t	he Generator properly	determine its gene	erator category base	d on the amount of hazardo	ous waste	Y: ⊠ N: □ N/A: □ P: □
	d each month?	determine its gen	crater category suse	a on the amount of hazardo	Jus Waste	Comment?
3. Did th	e Generator obtain an	EPA ID # by subm	itting an application	to ADEQ through the myDI	EO online	
	ing EPA Form 8700-1		an approunce.	to 1122 Q unrough uno my 21	2 4 0 111111	$Y: \boxtimes N: \square N/A: \square P: \square$
						Comment?
•				er for transportation, hazard	ous waste	Comment
4. Did th	without receiving an e Generator re-notify			Į.		
	· · · · · · · · · · · · · · · · ·					$Y: \boxtimes N: \square N/A: \square P: \square$
•	Submit reports and f					Comment?
•	Submit Biennial Rep					
1 Did#	A.A he Generator properly			Subpart B - Manifest I	Requiren	
1. Dia u	ne Generator property	prepare mannesu(s)	for transporting haz	ardous waste our site?		Y: ⊠ N: □ N/A: □ P: □
•	EPA Form 8700-22 a					Comment?
2. Did th	e Generator properly p	prepare and report e	electronic manifest(s)	in lieu of using EPA Form	8700-22?	
The	Generator must comp	dy with the requirer	ments of:			$Y: \boxtimes N: \square N/A: \square P: \square$
1110	Generator must comp	ny with the requirer	nents of.			Comment?
•	40 CFR § 262.24 and					Comment.
•	40 CFR § 3.10 for th	e reporting of electr	ronic documents to t	he EPA		
3. Did th	e Generator:					
•	Sign the manifest wa	ste minimization ce	ertification as require	ed by 40 CFR § 262.27?		$Y: \boxtimes N: \square N/A: \square P: \square$
•				eptance on the manifest?		Comment?
•				ned copy from the designated	d facility?	
•	Retain the fully signed			•		
1 TC.1				d Keeping & Exceptio		8
				nated facility signature withi ey contact the transporter a		$Y: \boxtimes N: \square N/A: \square P: \square$
	ed facility to determine			ey contact the transporter a	ind/or the	Comment?
2 Did tl	ne Generator submit a	an Exception Repor	t if they did not rea	eive a copy of the manifest	with the	Y: ⊠ N: □ N/A: □ P: □
				accepted by the initial transport		Comment?
2 D'11	C 1	C 1 D' ' '	D (15	D 46 116.1	1	Y: ⊠ N: □ N/A: □ P: □
	ne Generator keep a cop om the due date of the i		Keport and Excepti	on Report for a period of at l	east three	Comment?

CONDITIONS FOR EXEMPTIONS HAZARDOUS WASTE CONTAINERS

A.A.C. R18-8-262 / 40 CFR §§ 262.15 & 262.17

Failure to meet the conditions for exemptions listed below will subject the facility to Treatment, Storage, and/or Disposal Facility (TSDF) regulations

Exemption From Permitting, Interim Status, and TSDF Operating Requirements

Note: The Generator must meet the conditions for exemption under 40 CFR §§ 262.15 & 262.17 /A.A.C. R18-8-262, summarized in this check list, to obtain exemption from storage facility permit, interim status, and operating requirements.

The Generator must prevent the following from occurring:

- Unpermitted release, discharge, or disposal
- Improper treatment (dilution and/or thermal treatment are prohibited without a permit)
- Accumulation exceeding 90 days (except Satellite Accumulation Areas)
- Failure to meet a condition for exemption in the applicable regulations, including any condition listed below

A.A.C. R18-8-262 / 40 CFR § 262.17 - Central Accumulation Areas	(CAAs)
 Did the Generator accumulate hazardous waste only in containers, tanks, drip pads, and/or containment buildings? Note: Tanks, drip pads, and containment buildings have requirements on separate checklists. 	$Y: \square N: \square N/A: \boxtimes P: \square$ Comment?
2. Did the Generator comply with the following container management requirements?	
 Immediately transfer hazardous waste from a container, if it is not in good condition or if it begins to leak, to a container that is in good condition. Use a container made of or lined with materials that will not react with, and are otherwise compatible with, the hazardous waste to be stored, so that the ability of the container to contain the waste is not impaired. Always keep containers holding hazardous waste closed during accumulation, except when it is necessary to add or remove waste. Does not open, handle, or store hazardous waste in a manner that may rupture the container or cause it to leak. 	Y: □ N: □ N/A: ⊠ P: □ □ Comment?
	Y: □ N: □ N/A: ⊠ P: □
3. Did the Generator comply with the Air Emission Standards of 40 CFR § 265 Subparts AA, BB, & CC?	Comment?
4. Did the Generator inspect CAAs at least weekly to look for leaking containers and for deterioration of containers caused by corrosion or other factors?	$Y: \square N: \square N/A: \boxtimes P: \square$ Comment?
5. Did the Generator comply with the requirements for accumulating ignitable and/or reactive waste?	
 Locate containers holding ignitable or reactive waste at least 15 meters (50 feet) from the facility's property line Take precautions to prevent accidental ignition or reaction of hazardous waste Separate and protect ignitable and reactive waste from sources of ignition or reaction including but not limited to the following: Open flames, smoking, cutting and welding, hot surfaces, frictional heat, sparks (static, electrical, or mechanical), spontaneous ignition (e.g., from heat-producing chemical reactions), and radiant heat Place "No Smoking" signs conspicuously wherever there is a hazard from ignitable or reactive waste. 	Y: □ N: □ N/A: ⊠ P: □ □ Comment?
6. Did the Generator comply with the requirements for accumulating incompatible wastes?	
 Avoid placing incompatible wastes, or incompatible wastes and materials, in the same container. Avoid placing hazardous waste in unwashed containers that held incompatible waste or material. Separate or protect hazardous waste from any incompatible wastes or materials by means of a dike, berm, wall or other device 	$Y: \square N: \square N/A: \boxtimes P: \square$ Comment?

A.A.C. R18-8-262 / 40 CFR § 262.17 - Central Accumulation Areas	(CAAs)
7. Did the Generator label or mark its hazardous waste containers with the following:	(CIIII)
 The words "Hazardous Waste" An indication of the hazards of the contents in one of the following forms: The applicable hazardous waste characteristic(s) (i.e., ignitable, corrosive, reactive, toxic) Hazard communication consistent with DOT requirements (49 CFR part 172) for labeling and placarding Hazard statement or pictogram consistent with OSHA Hazard Communication Standards (29 CFR 1910.1200) A chemical hazard label consistent with the National Fire Protection Association code 704 A clearly visible accumulation start date 	Y: □ N: □ N/A: ⊠ P: □ □ Comment?
8. Does the Generator comply with the Personnel Training requirements?	
 Facility personnel must successfully complete a program of classroom instruction, online training, or on-the-job training that teaches them to perform their duties in a way that ensures compliance. This program must be directed by a person trained in hazardous waste management procedures, and must include instruction which teaches facility personnel hazardous waste management procedures (including contingency plan implementation) relevant to the positions in which they are employed. At a minimum, the training program must be designed to ensure that facility personnel are able to respond effectively to emergencies by familiarizing them with emergency procedures, emergency equipment, and emergency systems, including where applicable: Procedures for using, inspecting, repairing, and replacing facility emergency and monitoring equipment Key parameters for automatic waste feed cut-off systems Communications or alarm systems Response to fires or explosions Response to ground-water contamination incidents Shutdown of operations Facility personnel must successfully complete the training within six months after the date of their employment or assignment to the facility, or to a new position at the facility, whichever is later Employees must not work in unsupervised positions prior to completing the training Facility personnel must take part in an annual review of the initial training The Generator must maintain the following documents and records at the facility: The job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job A written job description of the type and amount of both introductory and continuing training that will be given to each person Records that document that the training has been completed by facility personnel. Training records on current personnel must be	Y: □ N: ☑ NA: □ P: □ Comment?
Comments: During records review, ADEQ inspectors discovered that the facility failed to maintain training docu and managing hazardous waste.	uments for personnel handing
 9. Did the Generator comply with the Land Disposal Restrictions (LDRs) requirements of 40 CFR § 268? The Generator must determine if the waste has to be treated before land disposal by obtaining a detailed chemical and physical analysis of the waste or using knowledge of the waste If the Generator is managing a characteristic hazardous waste, they must determine each applicable EPA waste code in order to determine the applicable treatment standards The Generator must place a one-time notification and certification in the on-site files if: The Generator treated the waste to remove a characteristic, or The waste did not meet treatment standards, or The Generator did not determine if treatment is required If the waste or contaminated soil meets the treatment standard, the Generator must send a one-time written notice with the initial shipment to each designated facility receiving the waste For contaminated soil, the Generator must send a one-time written notice with the initial shipment of waste to each facility receiving the waste and place a copy in the file 	Y: □ N: □ N/A: ⊠ P: □ □ □ Comment?

A.A.C. R18-8-262 / 40 CFR § 262.17 - Central Accumulation Areas	(CAAs)
• If the Generator is managing and treating prohibited hazardous waste or contaminated soil in tanks,	
containers, or containment buildings to meet the LDRs:	
o The Generator must develop and follow a written waste analysis plan which describes the	
procedures that will be followed to meet the treatment standards	
o The waste analysis plan must be based on detailed chemical and physical analysis of a	
representative sample of the prohibited waste being treated	
 The Generator must keep the waste analysis plan on-site readily available to inspectors 	
• If the Generator determines the waste or contaminated soil is restricted by knowledge or testing, the	
Generator must retain all supporting data and waste analysis data in on-site files	
• The Generator must retain on-site a copy of all notices, certifications, waste analysis data, and other	
documentation related to LDRs for at least three years from the date that the waste was last sent to	
on-site or off-site treatment, storage, or disposal	
10. If the facility is consolidating hazardous waste received from Very Small Quantity Generator (VSQG)	
facilities under control of the same person, did they meet all of the VSQG Consolidation requirements?	
The Generator must:	
Notify ADEQ using EPA Form 8700-12 in the myDEQ portal at least thirty (30) days prior to	
receiving the first shipment from a VSQG	
o Identify on the form the name(s) and site address(es) for the VSQGs as well as the name	Y: □ N: □ N/A: ⊠ P: □
and business telephone number for a contact person for each VSQG	Comment?
Submit an updated Site ID form (EPA Form 8700-12) within 30 days after a change in the	Comment?
name or site address for the VSQG	
Maintain records of shipments for three years from the date the hazardous waste was received	
• Label all containers with the date the waste was received from the VSQG (accumulation start date)	
• Comply with all LQG independent requirements and all LQG conditions for exemption for the	
consolidated VSQG waste	

A.A.C. R18-8-262 / 40 CFR § 262.15 - Satellite Accumulation Areas	(SAAs)
1. Are all hazardous waste satellite accumulation containers:	$Y: \square N: \square N/A: \boxtimes P: \square$
• Located at or near point of initial generation?	Comment?
 Under the direct control of the operator generating the waste? 	Comment:
2. Are all non-acute hazardous waste satellite accumulation containers at or below the 55-gallon limit (or 1-	$Y: \square N: \square N/A: \boxtimes P: \square$
quart of liquid acute hazardous waste or 1 kg [2.2 pounds] of solid acute hazardous waste) at the point of	Comment?
generation?	Confinent:
 Joid the Generator comply with all container management requirements? Immediately transfer hazardous waste from a container, if it is not in good condition or if it begins to leak, to a container that is in good condition. Use a container made of or lined with materials that will not react with, and are otherwise compatible with, the hazardous waste to be stored, so that the ability of the container to contain the waste is not impaired. Always keep containers holding hazardous waste closed during accumulation, except when it is necessary to add or remove waste, for temporary venting, proper operation of equipment, or to prevent build-up of extreme pressure Does not open, handle, or store hazardous waste in a manner that may rupture the container or cause it to leak. 	Y: □ N: □ N/A: ⊠ P: □ □ Comment?
 4. Did the Generator comply with the requirements for accumulating incompatible wastes? Avoid placing incompatible wastes, or incompatible wastes and materials, in the same container. Avoid placing hazardous waste in unwashed containers that held incompatible waste or material. Separate or protect hazardous waste from any incompatible wastes or materials by means of a dike, berm, wall or other device 	$Y: \square \ N: \square \ N/A: \boxtimes P: \square$ Comment?

A.A.C. R18-8-262 / 40 CFR § 262.15 - Satellite Accumulation Areas	(SAAs)
 5. Did the Generator comply with the requirements for labeling and marking hazardous waste containers? The words "Hazardous Waste" An indication of the hazards of the contents in one of the following forms: The applicable hazardous waste characteristic(s) (i.e., ignitable, corrosive, reactive, toxic) Hazard communication consistent with DOT requirements (49 CFR part 172) for labeling and placarding Hazard statement or pictogram consistent with OSHA Hazard Communication Standards (29 CFR 1910.1200) A chemical hazard label consistent with the National Fire Protection Association code 704 	Y: □ N: □ N/A: ⊠ P: □ □ □ Comment?
 6. If 55-gallons of non-acute/1-quart of liquid acute/1 kg of solid acute hazardous waste has been exceeded in the SAA, has the generator done the following: Comply within three consecutive calendar days with the Central Accumulation Area regulations Remove the excess from the SAA within three consecutive calendar days to either:	Y: □ N: □ N/A: ⊠ P: □ □ □ Comment?

A.A.C. R18-8-262 / 40 CFR § 262 Subpart M		
Preparedness, Prevention, and Emergency Requirements for CAAs and SAAs		
Did the Generator comply with the facility maintenance and operations standards? Facility maintained and operated to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment	$Y: \boxtimes N: \square N/A: \square P: \square$ Comment?	
 2. Did the Generator have all required equipment in all hazardous waste generation and accumulation areas? Internal communication or alarm system (i.e. intercom speaker, siren, fire alarm) capable of providing immediate emergency instruction to facility personnel External communications system (i.e. phone or two-way radio) immediately available at operations areas capable of summoning emergency assistance from local police and fire departments, or state or local emergency response teams Fire extinguishers, fire control equipment, spill control equipment, and decontamination equipment All equipment listed above tested and maintained as necessary to assure its proper operation Water at adequate volume and pressure to supply water hose streams, or foam producing equipment, or automatic sprinklers, or water spray systems 	Y: ⊠ N: □ N/A: □ P: □ □ □ Comment?	
3. Did the Generator have adequate aisle space for the unobstructed movement of staff and emergency equipment during business operations, weekly inspections and emergencies?	$Y: \square N: \square N/A: \boxtimes P: \square$ Comment?	
 4. Did the Generator attempt to make arrangements with police and emergency response teams including contractors, equipment suppliers and local hospitals as detailed below? Familiarize the above organizations with the facility layout, properties of hazardous waste at the facility and their hazards, entrances and evacuation routes, and types of potential illnesses that may occur as a result of an emergency Where more than one police or fire department might respond, make arrangements to designate a primary emergency response authority Maintain records to document the arrangements described above exist, or documents to show attempts were made to make such arrangements 	Y: ⊠ N: □ N/A: □ P: □ □ □ Comment?	

5. Did the Generator maintain a Contingency Plan designed to minimize hazards from fires, explosions, or releases of hazardous wastes or hazardous waste constituents to the environment?	
 The Contingency Plan must include: Description of actions facility staff will implement when there is an imminent or actual emergency Describes arrangements with local authorities including local police and fire departments, other emergency response teams and contractors, or applicable the Local Emergency Planning Committee Names and emergency telephone numbers of all emergency coordinators Name of the primary emergency coordinator if more than one person is listed List of all emergency equipment (fire extinguishers, spill control equipment, communications and alarm systems, and decontamination equipment)	Y: ⊠ N: □ N/A: □ P: □ □ Comment?
6. Did the Generator submit an up-to-date copy of the Contingency Plan to all local emergency responders?	$Y: \boxtimes N: \square N/A: \square P: \square$ Comment?
 7. Did the Generator prepare a Quick Reference Guide that summarizes the Contingency Plan? The Quick Reference Guide must include: Types of hazardous wastes in layman's terms Hazard associated with each hazardous waste (e.g., toxic paint wastes, spent ignitable solvent) Estimated maximum amount of each hazardous waste that may be present at any one time Identification of any hazardous wastes where exposure would require unique or special treatment by medical or hospital staff Map of the facility showing where hazardous wastes are generated, accumulated, and treated and routes for accessing these wastes Street map of the facility in relation to surrounding businesses, schools and residential areas Locations of water supply (e.g., fire hydrant and its flow rate); Identification of on-site notification systems (e.g., a fire alarms/smoke alarms) Name of the emergency coordinator(s) and 24-hour emergency telephone number(s) Generators must update their quick reference guides whenever the contingency plan is amended and submit these documents to the local emergency responders 	Y: □ N: □ N/A: ⊠ P: □ □ Comment?
 8. Did the Generator review and immediately amend the Contingency Plan whenever: Applicable regulations are revised The plan fails in an emergency The facility changes (in its design, construction, operation, maintenance, or other circumstances) in a way that materially increases the potential for fires, explosions, or releases of hazardous waste or hazardous waste constituents, or changes the response necessary in an emergency The list of emergency equipment changes The list of emergency equipment changes 	Y: ⊠ N: □ N/A: □ P: □ □ Comment?
 9. Does the Generator comply with the Emergency Coordinator requirements? At all times, the emergency coordinator or designee must be available on the facility premises or on call (i.e., available to respond to an emergency by reaching the facility within a short period of time) to coordinate all emergency response measures The emergency coordinator must be thoroughly familiar with all aspects of the Contingency Plan, all operations and activities at the facility, the location and characteristics of hazardous waste handled, the location of all records within the facility, and the facility's layout The emergency coordinator must have the authority to commit the resources needed to carry out the contingency plan. 	Y: ⊠ N: □ N/A: □ P: □ □ Comment?

10. Does the Generator comply with the Emergency Procedures and Spill Reporting requirements?	
If there is an imminent or actual emergency, the emergency coordinator must immediately activate internal facility alarms or communication systems and notify appropriate state or local agencies	
If there is a release, fire, or explosion, the emergency coordinator must immediately identify the character, exact source, amount, and areal extent of any released material and assess possible hazards to human health or the environment	
If there is a release, fire, or explosion that could impact human health or the environment off-site, the emergency coordinator must do the following: • Immediately notify appropriate local authorities if evacuation of local areas is advisable • Immediately notify the ADEQ Emergency Response Unit (602-771-2330 or 800-234-5677) and the National Response Center (800-424-8802)	Y: ⋈ N: □ N/A: □ P: □ □ Comment?
National Response Center (800-424-8802) The report shall include the following:	
 Name, address, and telephone number of the reporter; Name and address of the facility; 	
 Time and type of incident (e.g. release, fire); 	
Name and quantity of material(s) involved, to the extent known;	
The extent of injuries, if any;	
The possible hazards to human health, or the environment, outside the facility.	
 During an emergency, the emergency coordinator must take reasonable steps to ensure fires, 	
explosions, and releases do not occur, recur, or spread to other hazardous waste at the facility	
• If the Generator stops operations, the emergency coordinator must monitor for leaks, pressure	
buildup, gas generation, or ruptures in valves, pipes or other equipment, as appropriate	
11. Immediately after an emergency, did the emergency coordinator do the following:	
 Provide for treating, storing, or disposing of recovered waste, contaminated soil, or surface water 	Y: □ N: □ N/A: ⊠ P: □
In affected areas of the facility:	Comment?
 No hazardous waste that may be incompatible with the released material is treated, 	Comment?
stored, or disposed of until cleanup procedures are completed	
All equipment listed in the Contingency Plan are cleaned and fit for their intended use	
12. Did the Generator submit a written report on the incident to ADEQ within 15 days of any emergency?	
The report must include:	
 Name, address, and telephone number of the generator 	Y: □ N: □ N/A: ⊠ P: □
 Date, time, and type of incident (fire, explosion) 	Comment?
 Name and quantity of material(s) involved 	Comment?
o Extent of injuries, if any	
o An assessment of actual or potential hazards to human health or the environment	
 Estimated quantity and disposition of recovered material that resulted from the incident 	1

UNIVERSAL WASTE (40 CFR § 273 & A.A.C. R18-8-273)

Small Quantity Handler (SQH) of Universal Waste Management	
1. Does the SQH prevent the on-site disposal, dilution or treatment of universal waste?	
The SQH must manage universal waste in a manner that prevents releases of the waste or its components to the environment	$Y: \square N: \square N/A: \boxtimes P: \square$ Comment?
Note: Universal waste includes batteries, pesticides, mercury-containing equipment, and lamps	
2. If mercury containing ampules are removed from thermostats, has the handler met all of the requirements listed at 40 CFR § 273.13(c)?	$Y: \square \ N: \square \ N/A: \boxtimes P: \square$ Comment?

Small Quantity Handler (SQH) of Universal Waste Manageme	ent
3. Are universal waste pesticides, mercury containing material (i.e. thermostats), and lamps placed in containers that meet all of the following conditions:	
 Kept closed Structurally sound Adequate to prevent breakage or a release to the environment Compatible with the contents of the universal waste Lacking evidence of leakage, spillage, or damage that could cause leakage, including the escape of mercury by volatilization, under reasonably foreseeable conditions 	Y: □ N: □ N/A: ⊠ P: □ □ Comment?
Note: Containers, tanks, or transport vehicles of recalled pesticides must be additionally marked with the label that was on or accompanied the product when it was sold or distributed.	
4. Are all universal waste containers, tanks, vehicles, or vessels labeled or marked properly? "Universal Waste - Battery(ies)," or "Waste Battery(ies)," or "Used Battery(ies)" "Universal Waste - Pesticide(s)" or "Waste Pesticide(s)" "Universal Waste - Mercury Containing Equipment," "Waste Mercury-Containing Equipment," or "Used Mercury-Containing Equipment" "Universal Waste - Mercury Thermostat(s)," "Waste Mercury Thermostat(s)," or "Used Mercury Thermostat(s)" "Universal Waste - Lamp(s)," or "Waste Lamp(s)," or "Used Lamp(s)"	Y: □ N: □ N/A: ⊠ P: □ □ □ Comment?
 5. Can the SQH demonstrate the length of time the universal waste has been accumulated from the date it became a waste or the date it was received from another handler? Accumulation time may be demonstrated by any of the following: Marking or labeling each container with the earliest date the waste is generated or received Marking or labeling the individual item of waste with the date if was generated or received Maintaining an inventory system identifying the date the waste was generated or received Placing the universal waste in a specific accumulation area identified with the earliest date the 	Y: □ N: □ N/A: ⋈ P: □ □ Comment?
 waste was generated or received Using some other method that clearly demonstrates the length of accumulation time 	
6. Does the SQH accumulate universal waste for no longer than one year from the date generated or received from another handler? Note: The SQH will become a Large Quantity Handler (LQH) of universal waste if inventory exceeds 5000 kg (11,025 lbs.) on site.	Y: □ N: □ N/A: ⊠ P: □ □ Comment?
Note: The SQH can accumulate universal waste for longer than one year, to facilitate proper recovery, treatment, or disposal, but the SQH bears the burden of proving such.	
7. If there was a release of universal waste, did the SQH immediately contain all releases of universal waste and other residues for universal wastes? Note: Universal Waste batteries, pesticides, mercury containing material (i.e. thermostats), and lamps that are broken or show evidence of leakage or spillage must be placed in closed, structurally sound containers and managed accordingly. Wastes that are generated by cleaning up spills of universal wastes should be managed according to hazardous waste rules, if the SQH accurately determines they are hazardous.	Y: □ N: □ N/A: ⊠ P: □ □ Comment?
8. Did the SQH inform all employees on the proper handling and emergency procedures appropriate to the types of universal waste handled at the facility?	$Y: \square N: \square N/A: \boxtimes P: \square$ Comment?
9. Does the SQH send the universal waste to an appropriate recycler, destination facility, foreign destination or another handler? Note: Records for each shipment of universal waste sent off-site is highly recommended to show that the universal was sent to an appropriate entity. The records could include:	Y: □ N: □ N/A: ⋈ P: □ □ Comment?
 The name and address of the facility to which the waste was sent. The quantity of each type of universal waste sent. The date the shipment of universal waste left the facility. 	Common.
10. If the SQH is self-transporting universal waste, did they comply with 40 CFR § 273 Subpart D?	Y: □ N: □ N/A: ⋈ P: □ □ Comment?

POLLUTION PREVENTION PLAN

(A.R.S. 49-963)

Pollution Prevention Plan	
1. Did the facility prepare and implement a Pollution Prevention Plan that addresses a reduction in the use of toxic substances and generation of hazardous wastes, covering at least a two year time frame, on file with ADEQ?	
	Comment?
2. Did the facility owner or operator submit an annual progress report to ADEQ?	Y: □ N: □ N/A: ⊠ P: □
	Comment?

ADEQ Hazardous Waste Inspection Photo Log

Date of Inspection: April 14, 2021

Facility Information

Facility Name: Page-Trowbridge Ranch Landfill

Facility Location: Latitude: 32.60694 / Longitude: 110.895976

Place ID: 3166

Key Inspectors

Lead Inspector: Mario Barrios

Photographer: Mario Barrios

Page-Trowbridge Ranch Landfill - Latitude: 32.60694 / Longitude: 110.895976

Place ID: 3166 Photographer: Mario Barrios Date: April 14, 2021



<u>Location:</u> Page-Trowbridge Ranch Landfill

<u>Description:</u> Signage not in good condition along the perimeter fence

Photo 1



Location: CMP Culvert East

<u>Description:</u> The sediment filters in the swale were not staked in place nor in good condition.

Photo 2



Location: CMP Culvert East

<u>Description:</u> The culvert was locked and the interior channel of the culvert was unobstructed.

Page-Trowbridge Ranch Landfill - Latitude: 32.60694 / Longitude: 110.895976					
Place ID: 3166	Photographer: Mario Barrios	Date: April 14, 2021			
Photo 4		Location: MW #2 Description: Overview			
Photo 5		Location: MW #2 Description: Close-up view			
Photo 6		Location: Page-Trowbridge Ranch Landfill Description: Survey monument			

Place ID: 3166 Photographer: Mario Barrios Date: April 14, 2021



<u>Location:</u> Page-Trowbridge Ranch Landfill

<u>Description:</u> Survey monument

Photo 7



<u>Location:</u> Page-Trowbridge Ranch Landfill

<u>Description:</u> Survey monument

Photo 8



<u>Location:</u> Page-Trowbridge Ranch Landfill

<u>Description:</u> Survey monument

Place ID: 3166 Photographer: Mario Barrios Date: April 14, 2021



Location: CMP Culvert East

<u>Description:</u> The sediment filters in the swale were not staked in place nor in good condition.

Photo 10



Location: CMP Culvert South

<u>Description:</u> The sediment filters in the swale were not staked in place nor in good condition.

Photo 11



Location: CMP Culvert South

<u>Description:</u> The sediment filters in the swale were not staked in place nor in good condition.

Place ID: 3166 Photographer: Mario Barrios Date: April 14, 2021



Location: CMP Culvert South

<u>Description:</u> The culvert was locked and the interior channel of the culvert was unobstructed.

Photo 13



Location: MW #4

Description: Overview

Photo 14



Location: MW #4

Description: Close-up view

Place ID: 3166 Photographer: Mario Barrios Date: April 14, 2021



Location: Page-Trowbridge Ranch Landfill

<u>Description:</u> Main entrance signage

Photo 16



Location: Page-Trowbridge Ranch Landfill

<u>Description:</u> Signage along the east side perimeter fence

Photo 17



Location: Page-Trowbridge Ranch Landfill

<u>Description:</u> Vegetation along the perimeter fence on the east side of the property

Photo 18

Page-Trowbridge Ranch Landfill - Latitude: 32.60694 / Longitude: 110.895976 Photographer: Mario Barrios Date: April 14, 2021 Place ID: 3166 **Location:** Page-Trowbridge Ranch Landfill **Description:** Signage along the east side perimeter fence Photo 19 **Location:** Page-Trowbridge Ranch Landfill **Description:** Survey monument Photo 20 **Location:** Page-Trowbridge Ranch Landfill **Description:** Survey monument

Page-Trowbridge Ranch Landfill - Latitude: 32.60694 / Longitude: 110.895976 Photographer: Mario Barrios Date: April 14, 2021 Place ID: 3166 **Location:** Culvert Crossing #2 **Description:** Overview from the main entrance towards Cell B Photo 22 **Location:** Cell B Cover **Description:** Overview Photo 23 **Location:** MW #3 **Description:** Overview 55 - 508884

Page-Trowbridge Ranch Landfill - Latitude: 32.60694 / Longitude: 110.895976 Date: April 14, 2021 Place ID: 3166 Photographer: Mario Barrios Location: MW #3 **Description:** Locked Photo 25 **Location:** Cell B Cover **Description:** Overview of the erosion Photo 26 **Location:** Cell B Cover **Description:** Close-up view of the erosion in Photo 26 Photo 27

Place ID: 3166 Photographer: Mario Barrios Date: April 14, 2021



Location: SGD DP

Description: Close-up view

Photo 28



Location: SGD DP

<u>Description:</u> Close-up view

of the cap

Photo 29



Location: SGD DP

Description: Not locked

Page-Trowbridge Ranch Landfill - Latitude: 32.60694 / Longitude: 110.895976 Date: April 14, 2021 Place ID: 3166 Photographer: Mario Barrios **Location:** Cell A Cover **Description:** Overview of the erosion Photo 31 **Location:** Cell A Cover **Description:** Overview of the erosion Photo 32 **Location:** Cell A Cover **Description:** Overview of the erosion Photo 33

Page-Trowbridge Ranch Landfill - Latitude: 32.60694 / Longitude: 110.895976 Date: April 14, 2021 Place ID: 3166 Photographer: Mario Barrios **Location:** Cell A Cover **Description:** Woody vegetation Photo 34 **Location:** Cell B Cover **Description:** Woody vegetation Photo 35 **Location:** Cell A Cover **Description:** Overview of the erosion on the south west slope

Place ID: 3166 Photographer: Mario Barrios Date: April 14, 2021



Location: Soil Vapor Extraction (SVE)

<u>Description:</u> Close-up view of the erosion by the SVE motor

Photo 37



Location: Soil Vapor Extraction (SVE)

<u>Description:</u> Overview of the SVE

Photo 38



Location: Soil Vapor Extraction (SVE)

<u>**Description:**</u> SVE motor belts in good condition

Place ID: 3166 Photographer: Mario Barrios Date: April 14, 2021



Location: Soil Vapor Extraction (SVE)

<u>**Description:**</u> Properly maintained fire extinguisher

Photo 40



Location: Soil Vapor Extraction (SVE)

<u>**Description:**</u> Properly maintained fire extinguisher

Photo 41



<u>Location:</u> Culvert Crossing #1

<u>Description:</u> The interior channel of each culvert was unobstructed.

Page-Trowbridge Ranch Landfill - Latitude: 32.60694 / Longitude: 110.895976 Photographer: Mario Barrios Date: April 14, 2021 Place ID: 3166 **Location:** Cell A Cover **Description:** Woody vegetation Photo 43 **Location:** Cell A Cover **Description:** Close-up view of a mesquite tree (woody vegetation) Photo 44 **Location:** Cell A Cover **Description:** Woody vegetation

			694 / Longitude: 110.895976
Place ID: 31	L66	Photographer: Mario Barrios	Date: April 14, 2021
			Location: Page-Trowbridge Ranch Landfill Description: Survey monument
Photo 46			Location: Page-Trowbridge Ranch Landfill Description: Survey monument
Photo 47			
			Location: Culvert Crossing #1
			<u>Description:</u> The interior channel of each culvert was unobstructed.

Place ID: 3166 Photographer: Mario Barrios Date: April 14, 2021



Location: MW #1

Description: Overview

Photo 49



Location: MW #5

Description: Locked

Photo 50



Location: MW #5

Description: Overview



ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY FIELD INSPECTION EXIT DEBRIEFING

Site Name/ID No(s):	Page-Trowbridge Ranch Landfill	Inspection Date:	April 14, 2021	
Location: Latitude	e: 32.60694 / Longitude: 110.895976	Environmental Pro	ogram(s): Hazardous Waste Program	
Title 49; the Arizor deficiencies noted du inspector that is nec	received an inspection conducted to na Administrative Code; and applicable peuring the inspection, items you should consideressary to make a compliance determination DEQ. Any omissions in this exit debriefing sh	ermits/licenses. The for der for follow up action. Be advised that ad	ollowing is intended to summarize pote on, or additional information requested b ditional reports and correspondence ma	ential y the y be
1. T 2. A 3. C 4. W 5. V	e physical inspection ADEQ inspectors obside SGD DP well lock was not working; 160 – 200 foot length of perimeter fence wellvert sediment filters not staked in place woody vegetation growth on top of Cell A care getation along the perimeter fence on the ecords review ADEQ inspectors discovered pdated training records for personnel;	vithout any signage; nor in good condition over (mesquite tree); east side of the propo	erty;	
Fixed at the time o	f the inspection:			
• Nothing w	vas addressed during the course of the insp	ection.		
Recommendations	:			
_	Quick Reference Guide; ignage along the east side of perimeter fenc	ce, south of the main g	gate;	
		<u> </u>		

Facility Representative

 $\underline{Inspector}$

Name:

leffrey Christensen

Mario Barrios

Signature:

Please submit your response to your inspector's attention at the Arizona Department of Environmental Quality, 1110 West Washington Street, Phoenix, Arizona 85007 or via email.

RISK MANAGEMENT SERVICES

University Services Annex 300B 220 W Sixth St., East Building 2nd Floor PO Box 210300

Tucson, Arizona 85721-0300

Ofc: (520) 621-1790 Fax: (520) 621-3706

http://risk.arizona.edu/

May 12, 2021

Arizona Department of Environmental Quality Hazardous Waste Unit, Attn: Brandon T. Green 1110 W Washington St. Phoenix, AZ 85007

Subject: Opportunity to Correct Deficiencies
Page-Trowbridge Ranch Landfill, Place ID 3166

Dear Mr. Green:

The University of Arizona has completed the following actions to address deficiencies identified in your letter dated April 16, 2021.

1. ADEQ inspectors observed an insufficient number of security signs along the west side of the perimeter fence.

Risk Management Services (RMS) personnel attached a security sign in the space on the perimeter fence where the inspectors identified the deficiency on Friday, May 7, 2021. Picture 1 shows where the sign was missing. Picture 2 shows the installed sign. Additionally, RMS replaced two signs that were deemed questionable during the site inspection due to normal wear and sun damage. The three installed signs have the same warning language.

2. ADEQ observed a mesquite tree seedling sprouted from the Cell A cover.

RMS removed the mesquite tree on Thursday, April 15, 2021. Picture 3 shows the dead tree. Other potentially woody vegetation was removed from Cell A cover on Friday, May 7, 2021.

3. ADEQ observed that the culvert sediment filters were not staked in place nor in good condition.

RMS installed new straw wattles on Friday, May 7, 2021. Picture 4 is the west culvert. Picture 5 is the south culvert.



4. Facility representatives failed to provide adequate and up to date training records for personnel.

Annual PTRL training is done in-house by the Manager of Environmental Programs.

RMS requests that the 45-day completion schedule be extended as outlined below. A new Hazardous Waste Specialist is being hired to replace a staff member who was promoted internally. RMS would like to train everyone at the same time instead of having a special class for one person. The proposed completion day for training is Friday, July 30, 2021,

Job descriptions for the Manager of Environmental Programs, Hazardous Waste Supervisor and Hazardous Waste Specialist are in the Supporting Documentation section. The Manager of Environmental Programs is the new title for the position formerly designated as Health/Safety Officer.

Annual training follows the requirements of Section 4. Training Content in the Training and Qualifications Plan for Page-Trowbridge Ranch Landfill. A copy of the module's title slide is included in the Supporting Documentation section. Copies of RCRA, DOT and HAZWOPER training for the Manager of Environmental Programs, Hazardous Waste Supervisor and Hazardous Waste Specialist are provided.

5. Additional items mentioned during the exit interview.

The tall grass growing in the north east corner of the fence has been removed. Pictures 6 and 7 are before and after photos.

The three burrowing locations in the cover of Cell B were leveled and compacted using a tamper. Pictures 8 and 9 are before and after photos of one area.

The SGD-DP wellhead was unlocked during the inspection. The old lock was replaced. See Picture 10 and 11.



I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment for knowing violations.

Sincerely,

Steven C. Holland MS CRM ARM

Chief Risk Officer, University of Arizona

Cc:

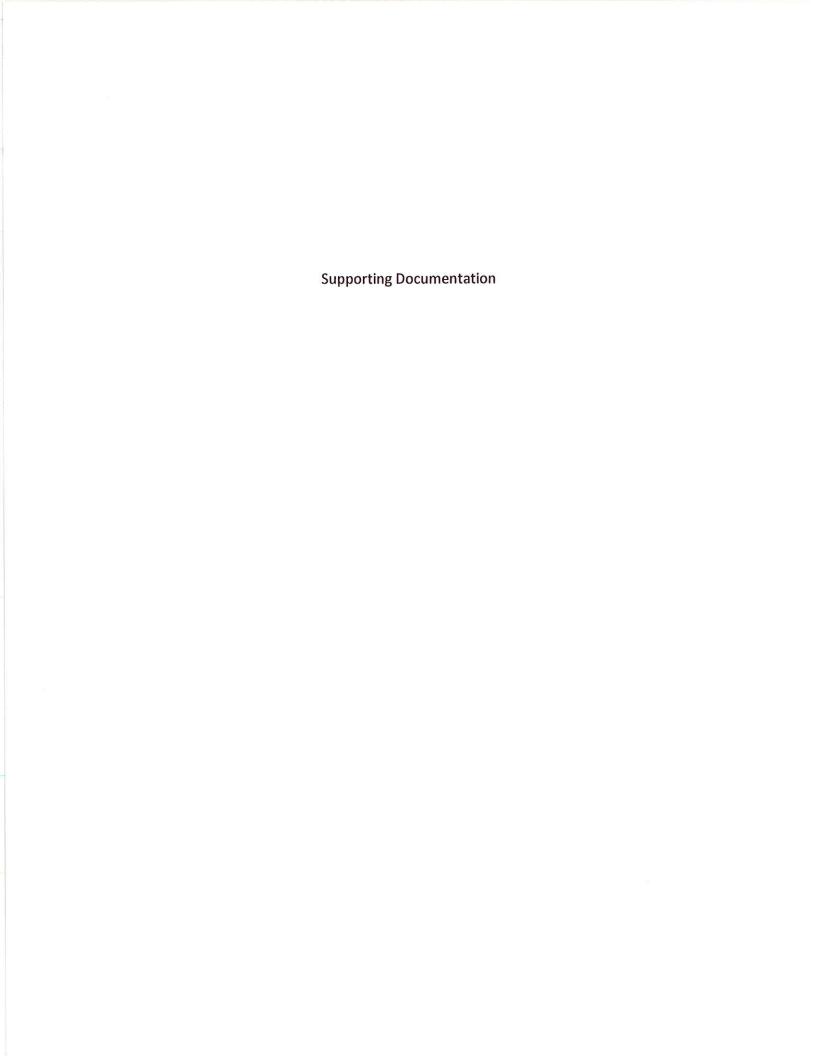
Jeff Christensen

PTRL File

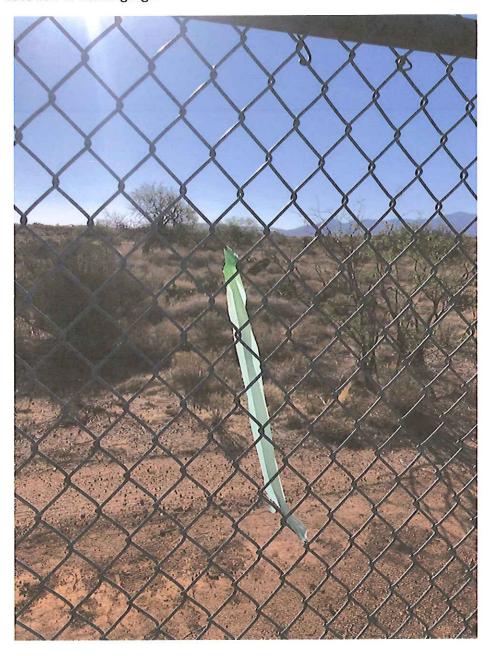
Attached:

11 Photos

Training Documentation



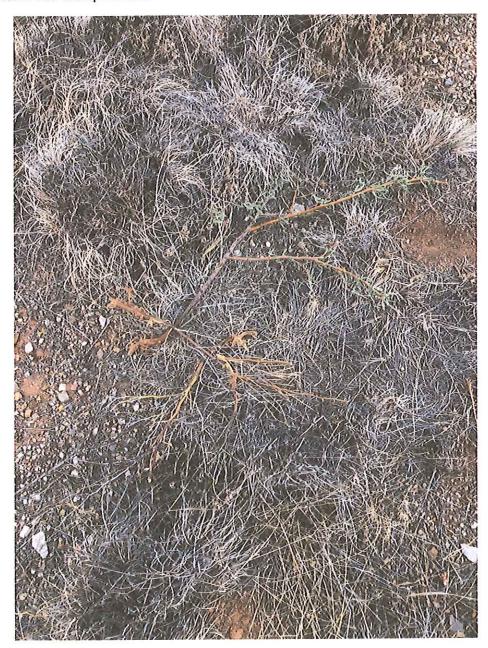
Picture 1 Location of missing sign



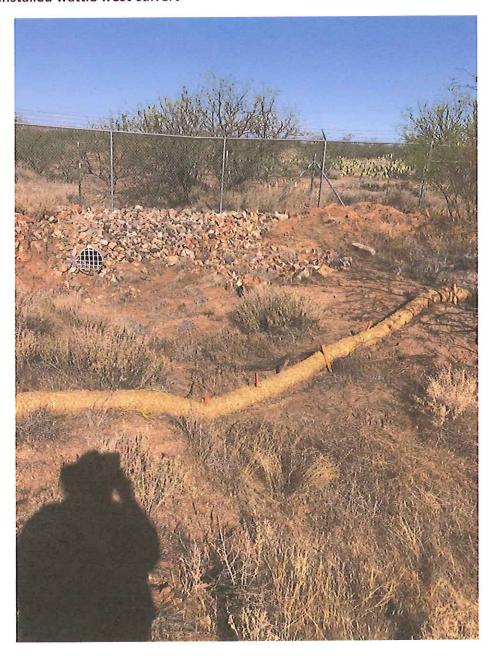
Picture 2 Installed sign



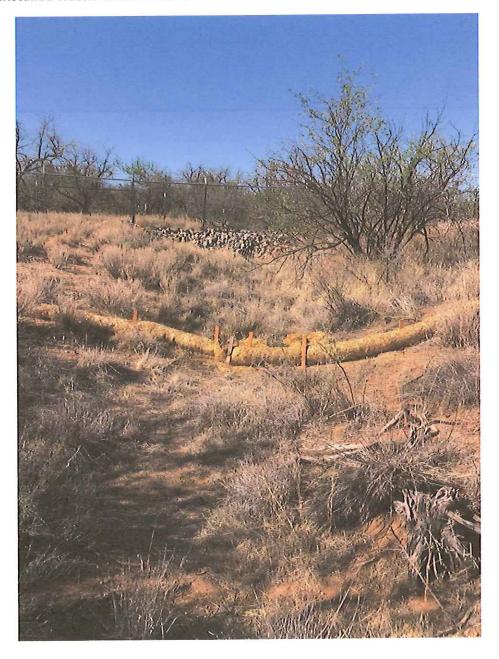
Picture 4 Removed mesquite tree



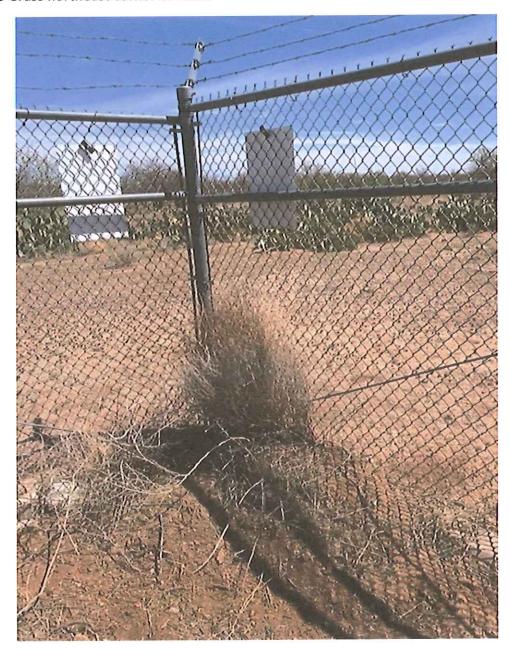
Picture 4 Installed wattle west culvert



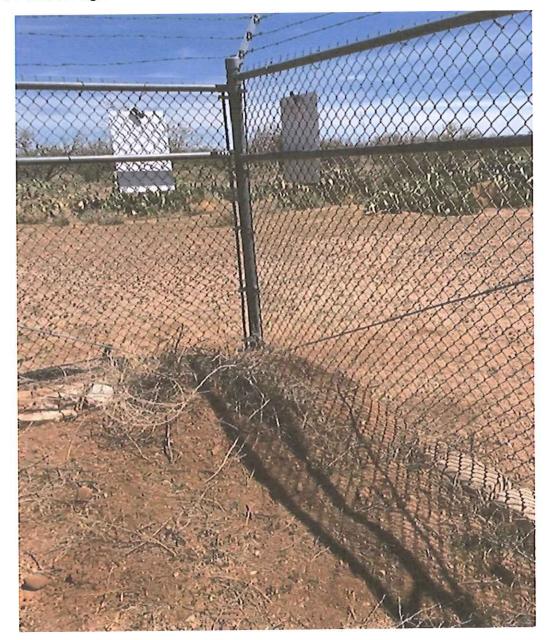
Picture 5 Installed wattle south culvert



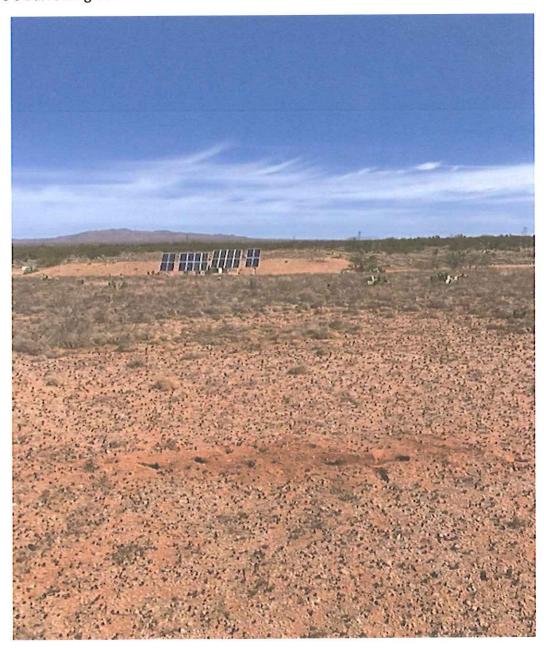
Picture 6 Grass northeast corner of fence



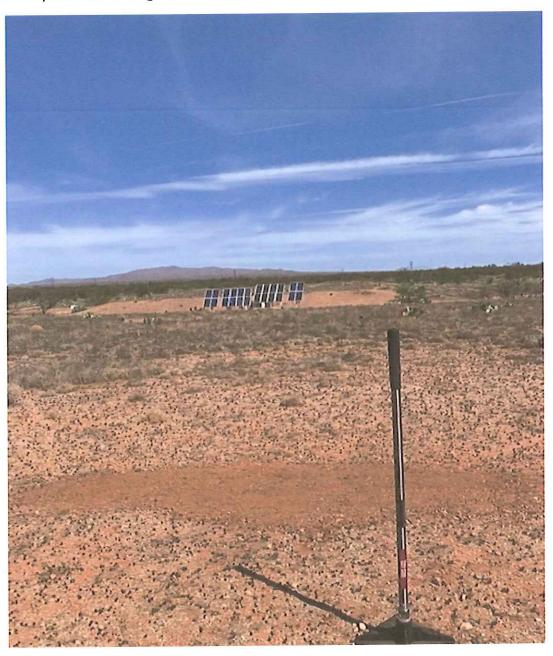
Picture 7 Removed grass northeast corner of fence



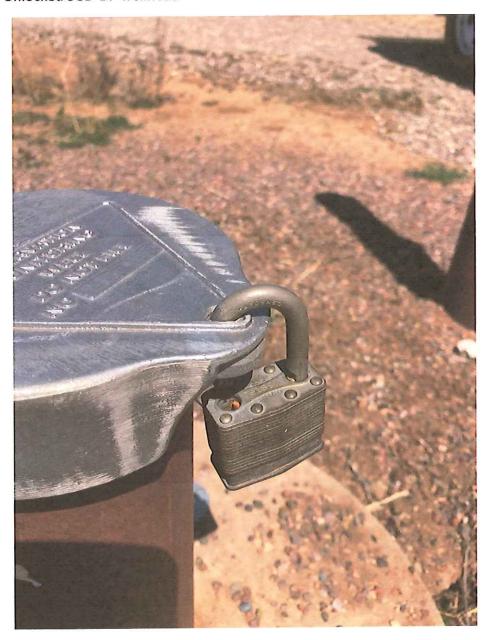
Picture 8 Burrowing Cell B cover



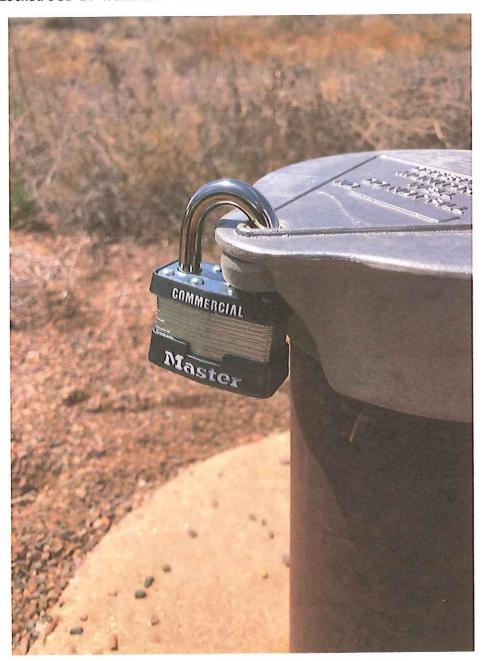
Picture 9 Repaired burrowing Cell B cover



Picture 10 Unlocked SGD-DP wellhead



Picture 11 Locked SGD-DP wellhead



Training Documentation





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CAREERS

Health / Safety Officer

Hourly Min/Mid/Max: \$11.00/\$13.48/\$16.65

Annual Min/Mid/Max: \$22,968/\$28,146/\$34,765

Position Type: Classified

FLSA:

Exempt

Purpose of Classification:

Plans, organizes and directs university safety program. Enforces compliance with state and federal health, safety and fire codes and reduces or prevents safety hazards, dangers or accidents in areas of hazardous materials, fire, life, occupational and/or industrial hygiene safety.

Distinguishing Characteristics:

This is second in a series of two classifications. It is distinguished from the Health/Safety Specialist in that incumbents typically oversee a safety program that is broad in scope, including all areas mentioned and work independently making decisions affecting program with little guidance. Incumbents may be exposed to hazardous or dangerous situations in course of work.

Example of Duties:

- Interprets and evaluates university compliance with applicable safety codes.
- · Develops, recommends and implements policy on health/safety protection; develops accident prevention and loss control systems and programs and ensures implementation throughout campus.
- Reviews construction plans for new and existing buildings to ensure compliance with fire, health and carries through completions.

Ask HR

- Coordinates with architects, engineers and construction managers to discuss safety precautions and requirements, recommendations and code analysis.
- Monitors safety inspection program; evaluates program maintenance and determines priority of existing hazard correction; makes random visits with inspectors.
- Monitors worker's compensation program; oversees investigations; analyzes trends to identify problem areas and recommend action to reduce risk and financial loss.
- Advises, coordinates with and provides technical guidance to university staff, faculty and administrators regarding safety codes, policies and procedures.
- Maintains relationship with regulatory agency representatives to remain current on changing standards and interpretations; serves as contact person for university.
- Develops and implements health/safety educational programs or activities to improve awareness of safety and protection procedures.
- Conducts or directs studies and statistical analysis to identify hazards and evaluate potential for loss; prepares report
 on findings.
- Supervises and coordinates work activities of one to two Health/Safety Specialists.
- · Ensures required licenses or registrations are maintained for hazardous materials.
- · Compiles budget estimates and information for special projects.

Knowledge, Skills, and Abilities:

- · Knowledge of the principles and practices of occupational safety.
- · Knowledge of federal, state and local laws and regulations governing safety procedures and policies.
- Skill in interpreting and applying federal, state and local safety laws and regulations.
- · Skill in developing safety policies.
- · Skill in investigating and analyzing accidents and their causes.
- · Ability to effectively communicate.

Minimum Qualifications:

- Bachelor's degree in Industrial Engineering or related field AND four years experience in safety, fire prevention, environmental health, industrial hygiene or related field, which includes one year of supervisory experience; OR,
- Eight years experience in safety, fire prevention, environmental health, industrial hygiene or related field, which includes one year of supervisory experience; OR,
- · Any equivalent combination of experience, training and/or education approved by Human Resources.

Created Date: 10/1/90 **Revised Date:** 3/13/06





Certificate of Attendance

2020 ANNUAL RCRA SEMINAR

Awarded to:

Jeff Christensen

September 4, 2020

Issue Date Tucson, Arizona

David Mack

SAEMS President

Certificate of Achievement

This is to certify that

Jeff Christensen

has successfully completed the 8 hour course

DOT Hazmat Transportation Refresher

In compliance with 49 CFR Subpart H 172.704 (a)(1), (a)(2), (a)(3), (a)(4)

7 Professional Development Hours

Instructor: Janet Gallup

Training Date: May 5, 2021

Expiration Date: May 5, 2024

Certificate #: 0109383342

Losy Moran

Kasey Moran, CEO



Corporate Mailing Address & Tucson Training Center: 5532 E. Grant Rd. | Tucson, AZ 85712 | 520.321.1999 Phoenix Training Center: 2516 E. University Dr., Ste. 200 | Phoenix, AZ 85034 | 602.923.9673

Prevention, Preparedness and Response (P2R) Consortium

a program within
The University of Texas Health Science Center at Houston (UTHealth) School of Public Health

This is to certify that

Jeff Christensen

has participated in the educational activity entitled

8 Hour HAZWOPER Refresher

ESI2001 Edinburg, Texas

in Dallas, Texas

and has earned 8 Continuing Education Hours.

Jeh Bufuhr

John Guglielmo, Instructor

October 22, 2020 Date(s) of Program

Janelle Rios, PhD Janelleziez

Prevention, Preparedness and Response (P2R) Consortium

UTHEAM | The University of Texas | School of Public Health





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CONTACT US (HTTPS://HR.ARIZONA.EDU/ASK-HR)

CAREERS

Hazardous Waste Supervisor

Hourly Min/Mid/Max: \$11.00/\$13.48/\$16.65

Annual Min/Mid/Max: \$22,968/\$28,146/\$34,765

Position Type: Classified

FLSA:

Exempt

Purpose of Classification:

Plans, organizes and directs the university hazardous waste and environmental compliance sampling programs.

Distinguishing Characteristics:

This is fourth in a series of four classifications. It is distinguished from the Hazardous Waste Specialist in that incumbents have a greater degree of expertise, responsibility and independence in performing duties. Incumbents supervise Environmental Compliance Technicians and Leads, coordinate a hazardous waste landfill program and coordinate a waste water program.

Example of Duties:

- Supervises two or more full-time employees, or their equivalent, on a regular basis.
- · Makes decisions regarding hiring, evaluation, promotion and termination of employees, or makes related recommendations that are given particular weight.
- Coordinates, prioritizes and schedules activities related to the collection, processing, storage, transportation and disposal of university generated hazardous waste; coordinates the hazardous waste land fill program.
- Coordinates an environmental sampling program which includes hazardous materials, wastewat soil, ensuring federal, state and local regulatory requirements are met.

Ask HR

Generates and maintains appropriate documentation and recordkeeping to meet environmental regulations.

nd

- Advises faculty, staff and students regarding proper waste management techniques and provides recommendations for appropriate action upon request.
- Coordinates response to chemical hazardous materials incidents at university facilities, directing appropriate
 resources of staff, equipment and expertise to properly and safely mitigate hazards and address the emergency.
- Develops and presents educational training sessions to faculty, staff and students regarding hazardous waste handling and other environmental compliance programs.
- Advises management of the status of ongoing environmental compliance activities and makes recommendations for appropriate actions.
- Interacts with hazardous waste disposal vendors to facilitate efficient, cost effective and timely off-site transportation and disposal of hazardous wastes.
- Researches treatment and disposal technologies to identify viable methods required to meet anticipated regulatory changes and/or proper handling of atypical, difficult to dispose of waste materials.

Knowledge, Skills, and Abilities:

- · Knowledge of supervisory practices and principles.
- Knowledge of local, state and federal rules and regulations on hazardous materials and environmental sampling.
- Knowledge of hazardous materials and environmental sampling management practice and techniques.
- Skill in supervising personnel and allocating appropriate resources to address simultaneous multiple program requirements.
- · Ability to effectively communicate.

Minimum Qualifications:

- Bachelor's degree in Chemistry, Safety or Industrial Engineering or related field AND three years experience in hazardous materials management; OR,
- Seven years hazardous materials management experience; OR,
- Any equivalent combination of experience, training and/or education approved by Human Resources.
- Possession of a current Arizona Type C driver's license upon employment.

Created Date: 10/1/90 **Revised Date:** 3/13/06



<u>Employment Emergency Information Title IX UAlert Information Security & Privacy Copyright</u>

<u>Campus Accessibility Feedback</u>

University Services Building | 888 North Euclid Avenue, Room 114 | Tucson, AZ USA 85721 | Contact Us (/ask-hr)



Certificate of Attendance

2020 ANNUAL RCRA SEMINAR

Awarded to:

Joe Divijak

September 4, 2020

Issue Date Tucson, Arizona

David Mack

SAEMS President

Prevention, Preparedness and Response (P2R) Consortium

a program within
The University of Texas Health Science Center at Houston (UTHealth) School of Public Health

This is to certify that

Joe Divijak

has participated in the educational activity entitled

8 Hour HAZWOPER Refresher

ESI2001 Edinburg, Texas

in Dallas, Texas

and has earned 8 Continuing Education Hours.

Jeh Lughh

October 29, 2020 Date(s) of Program

Jone (Chier

Janelle Rios, PhD

Prevention, Preparedness and Response (P2R) Consortium







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CAREERS

Hazardous Waste Specialist

Hourly Min/Mid/Max: \$11.00/\$13.48/\$16.65

Annual Min/Mid/Max: \$22,968/\$28,146/\$34,765

Position Type: Classified

FLSA:

Non-exempt

Purpose of Classification:

Plans, organizes, coordinates and schedules use of hazardous waste accumulation facility and controls hazardous waste disposal techniques used on campus.

Distinguishing Characteristics:

This is third in a series of four classifications and is distinguished from the Environmental Compliance Technician, Lead in that the incumbent is responsible for planning, coordinating, scheduling and controlling hazardous waste disposal. Works with hazardous waste daily and may be exposed to air contamination or hazardous materials in the case of a spill or accident.

Example of Duties:

- · Collects, transports, segregates, accumulates and performs initial disposal of hazardous waste for various university departments; determines proper method of accumulation and disposal based on hazard classes and compatibility of chemicals; packages documents and labels waste for shipment to appropriate disposal facilities pursuant to disposal facility, state and federal requirements.
- Maintains accumulation facility records and data base on all accumulated hazardous waste stre?
- · Coordinates the collection of campus-generated hazardous chemical/radioactive waste; assists i preparation for final disposal of infectious/biohazardous waste.

Ask HR

- Advises faculty, staff and students regarding proper hazardous waste management techniques and provides technical
 assistance upon request for campus departments.
- Responds to hazardous waste releases on campus using appropriate clean-up and safety methods.
- Analyzes and tests unknown hazardous waste streams to identify type of classification and allow for proper disposal.
- Presents educational or training sessions to faculty, staff and students regarding hazardous materials and waste management handling techniques.
- Identifies and prepares for disposal of asbestos materials.
- May supervise or monitor work activities of subordinates.
- Operates and maintains the elementary neutralization and waste water treatment systems and related equipment necessary in managing waste for proper disposal.

Knowledge, Skills, and Abilities:

- · Knowledge of local, state and federal rules and regulations on hazardous materials management.
- · Knowledge of hazardous materials management practices and techniques.
- Knowledge of chemical compatibilities and hazard classes.
- · Skill in analyzing hazardous waste.
- · Ability to effectively communicate.

Minimum Qualifications:

- Bachelor's degree in Chemistry, Safety or Industrial Engineering or related field AND two years experience in hazardous materials management; OR,
- Six years hazardous materials management experience; OR,
- · Any equivalent combination of experience, training and/or education approved by Human Resources.
- Possession of a current State of Arizona Type C driver's license upon employment.

Created Date: 10/1/90 **Revised Date:** 3/13/06



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Certificate of Attendance

2020 ANNUAL RCRA SEMINAR

Awarded to:

Mike Garcia

September 4, 2020

Issue Date Tucson, Arizona

David Mack

SAEMS President

Prevention, Preparedness and Response (P2R) Consortium

a program within

The University of Texas Health Science Center at Houston (UTHealth) School of Public Health

This is to certify that

Michael Garcia

has participated in the educational activity entitled

8 Hour HAZWOPER Refresher

ESI2001 Edinburg, Texas

in Dallas, Texas

and has earned 8 Continuing Education Hours.

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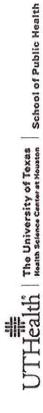
John Guglielmo, Instructor

October 29, 2020 Date(s) of Program

Janel (Kisz

Janelle Rios, PhD

Prevention, Preparedness and Response (P2R) Consortium





Certificate of Attendance

2020 ANNUAL RCRA SEMINAR

Awarded to:

Armando Jimenez

September 4, 2020

Issue Date Tucson, Arizona

David Mack

SAEMS President

Prevention, Preparedness and Response (P2R) Consortium

a program within
The University of Texas Health Science Center at Houston (UTHealth) School of Public Health

This is to certify that

Armando Jimenez

has participated in the educational activity entitled

8 Hour HAZWOPER Refresher

ESI2001 Edinburg, Texas

in Dallas, Texas

and has earned 8 Continuing Education Hours.

Jet Bufuhr

John Guglielmo, Instructor

October 29, 2020 Date(s) of Program

Janelle Risk

Janelle Rios, PhD

Prevention, Preparedness and Response (P2R) Consortium

THEALT | The University of Toxas | School of Public Health

TRAINING AND QUALIFICATIONS PLAN FOR PAGE-TROWBRIDGE RANCH LANDFILL

North 32°36′ 26.87″ West 110°53′ 45.83″ (Soil Vapor Extraction Array)

University of Arizona
Department of Risk Management Services
Township 9 South, Range 14 East, Gila and Salt River
Base and Meridian, Southern Half of Section 27 and Northern Half of Section 34
Pinal County, Arizona
EPA ID NO. AZD980665814

REVISED MARCH 2012

TRAINING AND QUALIFICATIONS PLAN

The Training and Qualifications Plan is designed to address the requirements of 40 CFR 270.14(b) (12), 40 CFR 264.16, 40 CFR 264.179 and 40 CFR Subpart CC. This plan also addresses the training and medical monitoring requirements of 29 CFR 1910.120, the OSHA Standard for Hazardous Waste Operations. The general approach and philosophy of the training program is to utilize a combination of classroom instruction and supervised on-the-job training to provide employees with the knowledge necessary to perform the sampling protocols and emergency procedures for the Page-Trowbridge Ranch Landfill (PTRL) in a manner that maintains compliance and protects health, safety and the environment.

1. OUTLINE OF TRAINING AND QUALIFICATIONS PLAN

The major components of the Training and Qualifications Plan are hiring qualifications and job descriptions, initial training upon hiring, medical monitoring, and ongoing training of current employees. Exhibit 1 provides an outline of each of these program components and the various training topics associated with each other.

2. JOB DESCRIPTIONS

There are several job titles within the university personnel system that have significant job responsibilities involving the management of hazardous waste. These include the Assistant Vice President for Risk Management, Director of Occupational and Environmental Health and Safety, Environmental Safety Officer, Hazardous Waste Supervisor, and Hazardous Waste Specialist. Exhibit 2 includes copies of each of these job descriptions, outlining specific responsibilities of each position and the training required for the job description.

3. TRAINING DIRECTOR

The Training Director for the UA hazardous waste program is the Hazardous Waste Supervisor. This position is responsible for ensuring that all required training is completed on schedule, and that records are kept up to date. The Training Director, although highly knowledgeable about hazardous waste issues, typically does not conduct all of the training him/herself, but utilizes a variety of resources to accomplish this task. These resources include other Risk Management staff such as the Industrial Hygienists, the Occupational Safety Officer, and others with specific knowledge. Additional resources include video tapes and printed reference materials available from the Risk Management inhouse library. Professional development courses offered at conferences and by professional organizations are also used to complete training requirements.

3.a. Training Director Qualifications

The Training Director receives the annual 8 Hour HAZWOPER Refresher, 8 Hour HAZWOPER Supervisor Training independently from outside vendors to segregate his training from internal training he provides to other PTRL staff. Train the Trainer, instructional technology or adult education themed classes are required every three years to maintain competency in training skills. Course curriculum, instructional methodology, hands-on exercises and other components of all UA environmental compliance training is developed to meet the criteria outlined in ANSI standard ANSI/ASSE Z490.1-2009 Criteria for Accepted Practices in Safety, Health, and Environmental Training.

4. TRAINING CONTENT

4.a. Regulatory Overview

This session covers in detail the regulatory status of PTRL as a closed disposal facility. An overview is conducted of major environmental regulatory programs and how they affect PTRL. Of paramount importance in this discussion are the Resource Conservation and Recovery Act (RCRA), and its subsequent amendments. Other regulatory programs reviewed during this session include the Comprehensive Environmental Compensation and Liability Act (CERCLA), and OSHA Hazardous Waste Operations Standard (HAZWOPER).

During this session, new employees are provided historical documentation to read that outlines previous compliance inspections, notices of violation, and the responses to those notices. This provides an excellent perspective on the types of typical compliance problems that have arisen during the operation of the program.

The Site Health and Safety Plan is introduced and discussed during this session.

The Site Inspection Report and Procedure is discussed with emphasis on the need for walking the perimeter, the cell caps and recording any deficiencies in writing and photograph. The Inspection Form is reviewed. The discussion includes potential deficiencies and a consensus is reached to ensure consistent inspections by authorized personnel. The Assistant Vice President for Risk Management, Director of Occupational and Environmental Health and Safety, Environmental Safety Officer, Hazardous Waste Supervisor are authorized to perform the required inspections but all employees who work at PTRL receive the training.

4.b. Hazardous Materials Chemistry and Toxicology

This session includes a review of the basic hazard classes of waste interred at PTRL, and the chemical characteristics that define these various hazards. The principal characteristics of concern include corrosivity, ignitability, reactivity, and toxicity. Descriptive hazard terms are also explained, including pH, vapor pressure, flashpoint, LEL/UEL, oxidizers, reductants, and pyrophoric and peroxidizable compounds. A variety of references and videotapes are also used in this session. An important component of this portion of the training is to teach employees how and where to locate specific hazard information needed to properly handle issues that may arise while at PTRL.

The Toxicology component of this review concentrates on acute and chronic health hazards of the waste types typically generated from university activities. Important concepts that must be well understood include dose, routes of entry, acute vs. chronic, and exposure standards such as Permissible Exposure Limits (PEL), Threshold Limit Values (TLV), and Immediately Dangerous to Life and Health (IDLH). In addition to these concepts, definitions are explained for terms such as carcinogen, mutagen, teratogen, and time-weighted-average.

4.c. Sampling Protocols

This session introduces general principles of sampling based on the following guidance documents: Region 4 U.S. Environmental Protection Agency Science and Ecosystem Support Division Groundwater Sampling October 28, 2011 and Arizona Department of Environmental Quality Soil Vapor Sampling Guidance July 10, 2008. These guidance documents are included as Exhibit 4 to this Training and Qualifications Plan. A complete step-by-step instruction on the groundwater and soil vapor sampling protocols is included. Equipment, sampling containers and pre-sampling event activities are discussed. Hands-on instruction is given with sample containers and equipment to provide familiarity with container handling. This session is followed by additional instruction that is performed during on-the-job activities.

4.d. Safety and Accident Prevention

Due to its remote location safety is a paramount concern at PTRL. This session provides specific information to employees on how to conduct their activities safely and efficiently without incident. Topics include fire prevention, proper lifting, and preventing heat related incidents. Employees are also given specific instructions for action to be taken in the event of an accident or injury in the workplace, including identifying locations of emergency medical assistance if needed.

Employees also receive training on the proper selection and use of personal protective equipment including protective eyewear, gloves and steel toed boots.,

Hazardous waste personnel are enrolled in the UA Medical Surveillance Program. Personnel are required to complete a Medical Questionnaire and undergo a physical exam prior to participating in hazardous waste management activities including PTRL sampling events

Employees are made aware of their rights under OSHA, specifically the HAZWOPER Standard (29 CFR 1910.120), and are encouraged to immediately report any safety concerns to their supervisor without fear of reprisal.

The medical monitoring program in place for hazardous waste employees is discussed in detail to describe the frequency and content of medical exams, and how the results will be reported and maintained.

4.f. Emergency Response and Contingency Plan Training

Employees are advised of the types of emergencies that can occur during the sampling events at PTRL, and the appropriate response to each. Topics include response to fire, explosion, or other accident that threatens health or the environment.

The Contingency Plan (Appendix E) is reviewed in detail to explain who the designated Emergency Coordinators are, and what criteria are specified for implementation of the Plan. Various scenarios are outlined in a discussion setting to enhance individual knowledge and awareness of the events that are likely to be associated with different emergencies.

5. TRAINING PLAN IMPLEMENTATION

All new employees shall not work at PTRL until all training requirements have been completed. This process is typically completed within the first two weeks of employment, but in no case shall this process take longer than 90 days from the start of employment. A certificate of completion will be awarded at the conclusion of training. An example of the certificate is included as Exhibit 3. All records of training completion are maintained at the HWMF Office, 1548-2 N. Ring Rd., Tucson, AZ, 85719. Training records are maintained with employment records for a minimum of three years after termination. Medical monitoring records are maintained for a minimum of 30 years after termination.

All training is repeated annually for all staff members who work at PTRL, or are designated as Emergency Coordinators in the Contingency Plan. Additionally, the Director and supervisors work to identify additional training opportunities as they become available. These include professional seminars, conferences, and membership in professional organizations with applicable interests.

EXHIBIT 1 Training Program Outline

TRAINING PROGRAM OUTLINE

I. Regulatory Overview

- A. UA PTRL Regulatory Status
 - 1. Closed TSDF Status
 - 2. Discussion of Compliance History
- B. Applicable Regulatory Programs
 - 1. Resource Conservation and Recovery Act (RCRA)
 - 2. Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)
 - OSHA Hazardous Waste Operations Standard (HAZWOPER)
- C. Site Health and Safety Plan
- D. Site Inspection Procedure and Report

II. Hazardous Materials Chemistry and Toxicology

- A. Chemistry of Hazardous Materials
 - Chemical nomenclature
 - Incompatibility
 - Definitions
 - Corrosive
 - b. Ignitable
 - c. Reactive
 - d. Toxic
 - Reaction rate
 - Chemical equilibrium
 - 6. Definitions/explanations of specific terms
 - a. pH
 - b. Vapor pressure
 - c. Flashpoint, LEL/UEL
 - d. Oxidizers/reductants
 - e. Pyrophoric materials

f. Peroxidizable compounds

B. Toxicology of Hazardous Materials

- 1. Routes of entry to the body
- 2. Dose/response relationships
- 3. Acute vs. chronic exposure
- 4. Definitions/explanations of specific terms
 - a. Toxicity
 - b. Carcinogen
 - c. Mutagen
 - d. Teratogen
 - e. Time weighted average
 - f. Others as applicable
- 5. Latency effects
- 6. Exposure standards
 - a. Threshold limit values (TLV)
 - b. Permissible exposure limits (PEL)
 - c. Immediately dangerous to life and health (IDLH)

C. Hazards of Specific Materials

- Halogenated hydrocarbons
- 2. Ketones/alcohols
- Metals
- Reactives
- Pesticides

III. Sampling Protocols

- A. Sampling QA/QC
 - a. Sampling Method
 - b. Sampling Equipment Maintenance and Calibration
 - c. Control Samples (trip blanks, field blanks)
 - d. Standard Operating Procedures
 - e. Chain of Custody, Transportation, Sample Holding Times

B. Sampling Protocols

- 1. Groundwater Detection Monitoring Plan
 - a. General Principles of Sample Collection
 - 1. Groundwater Sampling EPA Science

and Ecosystem Support Division Region 4 Operating Procedure 10/28/11

- a. Volatile Organic Compounds
 - 1. Sample Bottles/Preservatives
 - 2. Container Handling During Sampling
- 2. Soil Vapor Monitoring Well Procedure
 - a. General Principles of Sample Collection
 - 1. Soil Vapor Sampling Guidance ADEQ 7/10/08
 - a. Well Purging
 - b. Container Handling During Sampling
- 3. Soil Vapor Extraction System Sampling Procedure
 - a. General Principles of Sample Collection
 - 1. Soil Vapor Sampling Guidance ADEQ 7/10/08
 - a. Container Handling During Sampling

IV. Safety and Accident Prevention

- A. General Safety Considerations
 - 1. Fire prevention and response
 - 2. Proper lifting techniques
 - 3. Maintenance of work areas and equipment
 - 4. Accident reporting and investigation
 - 5. First aid and emergency medical resources
- B. Personal Protective Equipment
 - 1. Skin protection
 - Gloves-types and limitations
 - b. Safety eyewear-types and limitations
 - c. Proper footwear
- C. Medical Monitoring Program
 - 1. Requirements of 29 CFR 1910.120
 - 2. Frequency and content of examinations
 - 3. Results reporting
 - Recordkeeping

V. Emergency Response and Contingency Plan Training

- A. Types of Emergencies and Response
 - 1. Fire

- 2. Explosion
- 3. Chemical release
- 4. Criteria to shutdown PTRL activities

B. Emergency Equipment

- 1. Emergency Response Equipment Inventory
- 2. Equipment inspection, maintenance, and replacement
- 3. Communication and alarm systems
- 4. Environmental monitoring equipment

C. Contingency Plan

- 1. Criteria for implementation of the Contingency Plan
- 2. Evacuation routes and notification
- 3. Emergency coordinators
- 4. Reporting and recordkeeping
- 5. Coordination with outside response agencies

REGULATORY COMPLIANCE

TRAINING REQUIREMENTS

HAZARDOUS WASTE

40CFR265.16 RCRA (Applicable to LQG and TSDF)

<u>Worker</u>	<u>Initial</u>	Annual Refresher	<u>Certification</u>
New	No Specific Hours	No Specific Hours	Instructor
Current	Previous Experience	No Specific Hours	Instructor
Emergency Responder	Part of Initial	No Specific Hours	Instructor

UA Personnel Affected

Assistant Vice President for Risk Management Director, Occupational and Environmental Health and Safety Environmental Safety Officer Hazardous Waste Supervisor Hazardous Waste Specialist

29CFR1910.120 OSHA (Applicable to LQG and TSDF)

Worker	<u>Initial</u>	Annual Refresher	Certification
New	24 Hours	8 Hours	Instructor
Current	Previous Experience	8 Hours	Instructor
Emergency Responder	As Necessary	As Necessary	Instructor

UA Personnel Affected

Assistant Vice President for Risk Management
Director, Occupational and Environmental Health and Safety
Environmental Safety Officer
Hazardous Waste Supervisor
Hazardous Waste Specialist

HAZWOPER

29CFR1910.120 OSHA (Site Cleanup)

Worker	<u>Initial</u>	Annual Refresher	Certification
General Worker	40 Hours Offsite & 3 Days Onsite (Supervised)	8 Hours	Instructor/Site Supervisor
Occasional Worker	24 Hours Offsite 1 Day Onsite (Supervised)	8 Hours	Instructor/ Supervisor
Low-Hazard Worker	24 Hours Offsite	8 Hours	Instructor
Supervisor	Same As Worker & 8 Hours Specialized	8 Hours	Instructor
Emergency Responder	Not Specified, But Need Training Prior To Response Work	Annual "Rehearsal" of Emergency Response Plan	Not Necessary

UA Personnel Affected

Occasional Worker (Page Ranch)

Assistant Vice President for Risk Management
Director, Occupational and Environmental Health and Safety
Environmental Safety Officer
Hazardous Waste Supervisor
Hazardous Waste Specialist

Site History/Regulatory Status

Site Health and Safety Plan

Site Inspection

Chemistry of Hazardous Materials

Toxicology

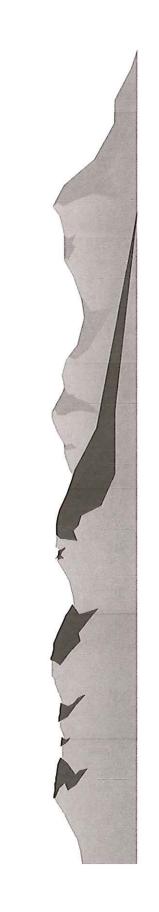
Exposure Guidelines

Multiple Hazards of Chemicals

Hazards of Specific Materials



Sampling Protocols



Groundwater Sampling

Soil Vapor Sampling

Soil Vapor Extraction System Sampling

Safety and Accident Prevention

Page-Trowbridge Ranch Landfill 40 CFR 264.16

Medical Surveillance

Page-Trowbridge Ranch Landfill 40 CFR 264.16



Contingency Plan

Page-Trowbridge Ranch Landfill 40 CFR 264.16

RISK MANAGEMENT SERVICES

University Services Annex 300B 220 W Sixth St., East Building 2nd Floor PO Box 210300 Tucson, Arizona 85721-0300

Ofc: (520) 621-1790 Fax: (520) 621-3706 http://risk.arizona.edu/

July 9, 2021

Arizona Department of Environmental Quality Hazardous Waste Unit, Attn: Brandon T. Green 1110 W Washington St Phoenix, AZ 85007

Subject: Opportunity to Correct Deficiencies

Page-Trowbridge Ranch Landfill, Place ID 3166

Dear Mr. Green:

The University of Arizona has completed the final action required in the original Opportunity to Correct Deficiencies letter dated 4/16/21.

The following UA personnel completed the Page-Trowbridge Ranch Landfill training course in accordance with the documentation provided on May 12, 2021.

Jeff Christensen

Manager, Environmental Programs

Joe Divijak

Hazardous Waste Supervisor

Michael Garcia

Hazardous Waste Specialist

Jesus Figueroa

Hazardous Waste Specialist

A copy of the course sign in sheet and copies of individual certificates are attached.

Sincerely,

Jeff Christensen, CIT, CHMM, CSI Manager, Environmental Programs

Cc:

Steve Holland, UA RMS



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	621 - 1790	Hazmat Specialist	1 Jeans Figueroa
	DEPT'S PHONE NUMBER		,
SIGNATURE	DEPARTMENT,	JOB TITLE	NAME
	LIMIT:	J. Christensen	INSTRUCTOR:
7:30	TIME:	USA	LOCATION:
7/9/2021	DATE:	PTRL Training	WORKSHOP:

ARIZONA. THE UNIVERSITY OF

TUCSON ARIZONA

PRESENTS THIS CERTIFICATE TO

Jeff Christensen

IN RECOGNITION OF PARTICIPATION IN PTRL Training

COMMING CONT CONT, COS Steven C. Holland

DIRECTOR

7/9/21

ARIZONA.

Tucson Arizona

PRESENTS THIS CERTIFICATE TO

Joe Divijak

IN RECOGNITION OF PARTICIPATION IN
PTRL Training



DIRECTOR

7/9/21

THE UNIVERSITY OF ARIZONA TUCSON ARIZONA

PRESENTS THIS CERTIFICATE TO

Michael Garcia

IN RECOGNITION OF PARTICIPATION IN
PTRL Training

composition Composition Colonics I

Steven C. Holland

DIRECTOR

7/9/21

ARIZONA. THE UNIVERSITY OF TUCSON ARIZONA

PRESENTS THIS CERTIFICATE TO

Jesus Figueroa

IN RECOGNITION OF PARTICIPATION IN PTRL Training

Coprediction of Comments (Mm) CSI

DIRECTOR Steven C. Holland

7/9/21



Name	Title	Organization	Street Address	City	State	Zipcode
Laura Malone	DIVISION DIRECTOR	ADEQ - WASTE PROGRAMS DIVISION	1110 W Washington St	Phoenix	AZ	85007
Ty Gray	DIRECTOR	ARIZONA GAME & FISH DEPT.	5000 W Carefree Highway	Phoenix	AZ	85086
Hon., Thomas Shope	STATE SENATOR - DIST. 08	ARIZONA STATE SENATE	1700 W Washington	Phoenix	AZ	85007
Fred Schneider	VICE PRES - ENG	ARIZONA WATER COMPANY	P.O. Box 29006	Phoenix	AZ	85038
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Hon., David Cook	STATE REPRESENTATIVE/DIST. 08	AZ HOUSE OF REPRESENTATIVES	1700 W Washington, House Wing	Phoenix	AZ	85007
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	COUNCIL MEMBER	CITY OF COOLIDGE	130 W CENTRAL AVE	COOLIDGE	AZ	85128
RICK MILLER	CITY MANAGER	CITY OF COOLIDGE	130 W CENTRAL AVE	COOLIDGE	AZ	85128
	MAYOR	CITY OF COOLIDGE	130 W CENTRAL AVE	COOLIDGE	AZ	85128
BENJAMIN NAVARRO	COUNCIL MEMBER	CITY OF COOLIDGE	130 W CENTRAL AVE	COOLIDGE	AZ	85128
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PAUL CUNNINGHAM	COUNCIL MEMBER-WARD 2	CITY OF TUCSON	7575 EAST SPEEDWAY	TUCSON	AZ	85715
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NIKKI LEE	COUNCIL MEMBER - WARD 4	CITY OF TUCSON	8123 EAST POINCIANA	TUCSON	AZ	85730
RICHARD FIMBRES	COUNCIL MEMBER - WARD 5	CITY OF TUCSON	4300 SOUTH PARK	TUCSON	AZ	85714
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Jeffrey McClure	SUPERVISOR/DIST. 4	PINAL COUNTY	P.O. Box 827	Florence	AZ	85132
MICHAEL SUNDBLOM	DIRECTOR, AIR QUALITY CONTROL	PINAL COUNTY	P.O. BOX 987	FLORENCE	AZ	85132
LEO LEW	COUNTY MANAGER	PINAL COUNTY	P.O. BOX 827	FLORENCE	AZ	85132
TASCHA SPEARS	PUBLIC HEALTH DIRECTOR	PINAL COUNTY	P.O. BOX 2945	FLORENCE	AZ	85132

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Sylate Miller	Kevin Cavanaugh	SUPERVISOR/DIST. 1	PINAL COUNTY	P.O. Box 827	Florence	AZ	85132
CHRISTREMMS	Mike Goodman	SUPERVISOR/DIST. 2	PINAL COUNTY	P.O. Box 827	Florence	AZ	85132
CHIRD SERION	Stephen Miller	SUPERVISOR/DIST. 3	PINAL COUNTY	P.O. Box 827	Florence	AZ	85132
ENTERCYON DEVELOPMENT, DB PRINCE	CHRIS REIMUS	ASSISTANT DIR	PINAL COUNTY	971 N JASON LOPEZ, BLDG. D	FLORENCE	AZ	85132
SIFICALIZION STREET PRISON AZ S50	LESTER CHOW		PINAL COUNTY	P.O. BOX 2973	FLORENCE	AZ	85132
CHAPTER PROGRAM DIRECTOR SPORGRAM DIRECTOR SPORGRAM DIRECTOR SPORGRAM DIRECTOR SPORGRAM DIRECTOR SPORGRAM DIRECTOR STATE FIRE MASSIMAL STATE OF RAIZONA 1110 West Washington St 9500 Phoenix AZ 850 AZ 850 AZ 850 AZ 850 AZ 850 AZ AZ AZ AZ AZ AZ AZ A	KATHRYN LEONARD		SHPO, ARIZONA STATE PARKS	1110 W WASHINGTON ST., STE 100	PHOENIX	AZ	85007
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DAVID TENNEY STATE FORESTER, INTERIM DIRECTOR STATE OF ARIZONA 1110 W. WASHINGTON ST, STE #510 PHOENIX AZ \$500	FLOR SANDOVAL	PROGRAM DIRECTOR		P.O. BOX 65782	TUCSON	AZ	85728
DIRECTOR STATE OF RAZDONA 1100 W. WASHINGTON ST. STE #500 PROCESS. VEYLE MILLER DIRECTOR STATEWIDE ACTIVE MANAGEMENT 1110 W. WASHINGTON ST. STE #510 PROCESS. ARTHOUGH STATEWIDE ACTIVE MANAGEMENT 1110 W. WASHINGTON ST. STE #510 PROCESS. ARTHOUGH STATEWIDE ACTIVE MANAGEMENT 1110 W. WASHINGTON ST. STE #510 PROCESS. AZ 851 PROWN COUNCIL MEMBER TOWN OF QUEEN CREEK 2238 S ELLSWORTH ROAD QUEEN CREEK AZ 851 PROWN OF QUEEN CREEK 2238 S ELLSWORTH ROAD QUEEN CREEK AZ 851 PROWN OF	Rober Barger	STATE FIRE MARSHALL	STATE OF ARIZONA	1110 West Washington St #500	Phoenix	AZ	85007
STEEMILER	DAVID TENNEY		STATE OF ARIZONA	1110 W. WASHINGTON ST, STE #500	PHOENIX	AZ	85007
IFF BROWN	KYLE MILLER	DIRECTOR		1110 W WASHINGTON ST, STE #310	PHOENIX	AZ	85007
LEAST MARTINEAU	ROBIN BENNING	COUNCIL MEMBER		22358 S ELLSWORTH ROAD	QUEEN CREEK		85142
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DAWN OLIPHANT VICE MAYOR TOWN OF QUEEN CRIEK 22358 SELLSWORTH ROAD QUEEN CREEK AZ 8514	JULIA WHEATLEY	COUNCIL MEMBER	TOWN OF QUEEN CREEK	22358 S ELLSWORTH ROAD	QUEEN CREEK	AZ	85142
MAYOR	BRUCE GARDNER	ASSISTANT MANAGER	TOWN OF QUEEN CREEK	22358 S ELLSWORTH ROAD	QUEEN CREEK	AZ	85142
ASST DIRECTOR U. OF A. RADIATION CONTROL OFFICE P.O. BOX 245101 TUCSON AZ 8572	DAWN OLIPHANT	VICE MAYOR	TOWN OF QUEEN CREEK	22358 S ELLSWORTH ROAD	QUEEN CREEK	AZ	85142
LEON HARRIS SENIOR DIRECTOR U.O.F. A. RESEARCH LABORATORY P.O. BOX 245101 TUCSON AZ 8572 AREA MANAGER U.O.F. A. RESEARCH LABORATORY P.O. BOX 210300 TUCSON AZ 8572 AZ AZ AZ AZ AZ AZ AZ A	HON. GAIL BARNEY	MAYOR	TOWN OF QUEEN CREEK	22358 S ELLSWORTH ROAD	QUEEN CREEK	AZ	85142
REION HARRIS SENIOR DIRECTOR SAFETY SRVS P.O. BOX 245101 IU.SUN AZ 8572	KEITH CARSTEN	ASST DIRECTOR	U OF A, RADIATION CONTROL OFFICE	E P.O. BOX 245101	TUCSON	AZ	85724
LESLIE MEYERS	LEON HARRIS	SENIOR DIRECTOR		P.O. BOX 245101	TUCSON	AZ	85724
BARBARA GROSS MANAGER, PERMITS SECTION U.S. EPA, REGION IX, LAND DIVISION 75 HAWTHORNE STREET, MC WST-4 SAN FRANCISCO CA 9410	MIGUEL DELGADO	CHIEF RISK OFFICER	U OF A, RISK MANAGEMENT SVCS	P.O. BOX 210300	TUCSON	AZ	85724
SECTION U.S. EPA, REGION IX, ICAND DIVISION 75 HAW HORNE STREET, MC WST-4 SAN FRANCISCO CA 9410	LESLIE MEYERS	AREA MANAGER	U.S. BUREAU OF RECLAMATION	6150 W THUNDERBIRD ROAD	GLENDALE	AZ	85306
MARTOUZ*MIKE*ZABANEH MGR	BARBARA GROSS		U.S. EPA, REGION IX, LAND DIVISION	75 HAWTHORNE STREET, MC WST-4	SAN FRANCISCO	CA	94105
AMANDA KRUZ PROJECT MGR FACILITIES MGT AZ ECOLOGICAL SVCS U.S. FISH & WILDLIFE SERVICE 9828 N 31ST AVENUE #C3 PHOENIX AZ 8503 BIRECTOR, WATER SCIENCE CENTER U.S. GEOLOGICAL SURVEY 520 N PARK AVENUE, STE 221 TUCSON AZ 8571 HON. TOM OHALLERAN CONGRESSMAN - DIST. 1 U.S. HOUSE OF REPRESENTATIVES 211 NORTH FLORENCE STREET, SUITE 1 CASA GRANDE AZ 8512 THE HONORABLE KYRSTEN SINEMA SENATOR UNITED STATES SENATE 825B&C HART SENATE OFFICE BUILDING WASHINGTON DC 2051 ARIZONA BOARD OF REGENTS ROBSON RANCH MOUNTAINS LLC 4872 ROBSON RANCH MOUNTAINS LLC 9532 E RIGGS ROAD SUN LAKES AZ 8524 ARIZONA WATER COMPANY P.O. BOX 29006 PHOENIX AZ 8503 DANIEL & KIMBERLY GARRETT 11047 SOLARIDGE DRIVE RESTON VA 2015 COPPER HILL ESTATES LLC 5900 GREEN OAK DRIVE, STE 305 HOPKINS MN 5534 DANIEL TROY & KIM MCREYNOLDS BEST-LAWRENCE LLC 1850 N CENTRAL AVENUE, STE 1140 PHOENIX AZ 8604 BFAT LAWRENCE LLC 1850 N CENTRAL AVENUE, STE 1140 PHOENIX AZ 8604 BFAT LAWRENCE LLC 1850 N CENTRAL AVENUE, STE 1140 PHOENIX AZ 8502 RICHARD & SOSTEP Y DRIVE P.O. BOX 5591 ORACLE AZ 8562 RICHARD & AZ 8502 RICHARD & KATHLEEN LEWIS LEWIS FAMILY TRUST OF 2007 30719 S OSPREY DRIVE ORACLE AZ 8562 RICHARD & KATHLEEN LEWIS CASA GRANDE AZ 8504 AZ 8505 AZ 8572 AZ 8572 AZ 8572 AZ 8572 AZ 8572 AZ 8573 AZ 8573 AZ 8573 AZ 8574 AZ 8505 AZ 8574 AZ 8505 BIRCHARD & AZ 8506 BIRCHARD & AZ 8506 BIRCHARD & KATHLEEN LEWIS LEWIS FAMILY TRUST OF 2007 30719 S OSPREY DRIVE ORACLE AZ 8506	MAHFOUZ "MIKE" ZABANEH			75 HAWTHORNE STREET, MC WST-4	SAN FRANCISCO	CA	94105
JAMES LEENHOUTS DIRECTOR, WATER SCIENCE CENTER U.S. GEOLOGICAL SURVEY 520 N PARK AVENUE, STE 221 TUCSON AZ 8571 HON. TOM O'HALLERAN CONGRESSMAN - DIST. 1 U.S. HOUSE OF REPRESENTATIVES 211 NORTH FLORENCE STREET, SUITE 1 CASA GRANDE AZ 8512 THE HONORABLE KYRSTEN SINEMA SENATOR UNITED STATES SENATE 825B&C HART SENATE OFFICE BUILDING WASHINGTON DC 2051 THE HONORABLE MARK KELLY SENATOR UNITED STATES SENATE B40D DIRKSEN SENATE OFFICE BUILDING WASHINGTON DC 2051 ARIZONA BOARD OF REGENTS 220 W 6TH STREET TUCSON AZ 8572 ROBSON RANCH MOUNTAINS LIC 9532 E RIGGS ROAD SUN LAKES AZ 8524 ARIZONA WATER COMPANY P.O. BOX 29006 PHOENIX AZ 8524 ARIZONA WATER COMPANY 11047 SOLARIDGE DRIVE RESTON VA 2015 COPPER HILL ESTATES LIC 9900 GREEN OAK DRIVE, STE 305 HOPKINS MN 5534 DANIEL TROY & KIM MCREYNOLDS FILL ESTATES LIC 1850 N CENTRAL AVENUE, STE 1140 PHOENIX AZ 8562 FALCON VALLEY RANCH GOFF & GOFF LTD PSHIP P.O. BOX 5591 ORACLE AZ 8562 RICHARD & SOPPEY DRIVE ORACLE AZ 8562 RICHARD & SOPPEY DRIVE ORACLE AZ 8562 RICHARD & SOPPEY DRIVE ORACLE AZ 8562 AZ 8562 AZ 8572	AMANDA CRUZ	PROJECT MGR		75 HAWTHORNE STREET, MC WST-4	SAN FRANCISCO	CA	94105
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THE HONORABLE KYRSTEN SINEMA SENATOR UNITED STATES SENATE 825B&C HART SENATE OFFICE BUILDING WASHINGTON DC 2051 ARIZONA BOARD OF REGENTS 220 W 6TH STREET TUCSON AZ 8572 ROBSON RANCH MOUNTAINS LLC 9532 E RIGGS ROAD SUN LAKES AZ 8524 ARIZONA WATER COMPANY P.O. BOX 29006 PHOENIX AZ 8503 DANIEL & KIMBERLY GARRETT 11047 SOLARIDGE DRIVE RESTON VA 2015 COPPER HILL ESTATES LLC 9500 GREEN OAK DRIVE, STE 305 HOPKINS MN 5534 BF-ST LAWRENCE LLC 1850 N CENTRAL AVENUE, STE 1140 PHOENIX AZ 8506 FALCON VALLEY RANCH BC 38504 S BIOSPHERE ROAD ORACLE AZ 8506 FALCON VALLEY RANCH PLOS BOX 13 TUCSON AZ 8506 FALCON VALLEY RANCH PLOS BOX 13 TUCSON AZ 8506 RICHARD & KATHLEEN LEWIS LEWIS FAMILY TRUST OF 2007 30719 S OSPREY DRIVE ORACLE AZ 8506 RICHARD & KATHLEEN LEWIS	JAMES LEENHOUTS		U.S. GEOLOGICAL SURVEY	520 N PARK AVENUE, STE 221	TUCSON	AZ	85719
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ARIZONA BOARD OF REGENTS ROBSON RANCH MOUNTAINS LLC ROBSON RANCH MOUNTAINS LLC ARIZONA WATER COMPANY P.O. BOX 29006 PHOENIX AZ 8502 DANIEL & KIMBERLY GARRETT 11047 SOLARIDGE DRIVE RESTON VA 2015 COPPER HILL ESTATES LLC 5900 GREEN OAK DRIVE, STE 305 HOPKINS MN 5534 DANIEL TROY & KIM MCREYNOLDS 1328 E OAK STREET WINSLOW AZ 8604 BF-ST LAWRENCE LLC 1850 N CENTRAL AVENUE, STE 1140 PHOENIX AZ 8502 AZ 8604 BF-ST LAWRENCE LLC 1850 N CENTRAL AVENUE, STE 1140 PHOENIX AZ 8506 FALCON VALLEY RANCH HC 3 BOX 13 TUCSON AZ 8507 AZ 8506 FALCON VALLEY RANCH PO. BOX 5591 ORACLE AZ 8562 RICHARD & KATHLEEN LEWIS LEWIS FAMILY TRUST OF 2007 30719 S OSPREY DRIVE ORACLE AZ 8562	THE HONORABLE KYRSTEN SINEMA	SENATOR	UNITED STATES SENATE	825B&C HART SENATE OFFICE BUILDING	WASHINGTON DC		20510
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SAMEL NORTHELINGER 150 BEYERS LAKE EST PANA IL C. C. C. C. C. C. C. C					
HOMAS SILLIVAN 3068 S CHESTNUT WAY ORACLE AZ 850					
AMES & VICKIS TRACILIAN 3073 \$ 3 EANS WAY 0 RACLE AZ 850 AND DE CACE 3069 \$ B RANN WAY 0 RACLE AZ 850 ANTHONY & DIANNE SIGNORELLI 3079 \$ B ILLE GRANTIE LANE 0 RACLE AZ 850 ANTHONY & DIANNE SIGNORELI 3079 \$ B ILLE GRANTIE LANE 0 RACLE AZ 850 ARC REVEN JACOBS & WANCY SULLIVAN 285 EAGLECLIFE DRIVE ESTES PARK CO 805) AVEREN BEAVER 6158 E QUARTZITE ROAD 0 RACLE AZ 850 RED & TINA WEBER 6158 E QUARTZITE ROAD 0 RACLE AZ 850 RED & TINA WEBER 6158 E QUARTZITE ROAD 0 RACLE AZ 850 RED & TINA WEBER 6158 E QUARTZITE ROAD 0 RACLE AZ 850 AMES & LINDA PARKINSON 61592 E QUARTZITE ROAD 0 RACLE AZ 850 AMES & LINDA PARKINSON 61592 E QUARTZITE ROAD 0 RACLE AZ 850 AMES & LINDA PARKINSON 61592 E QUARTZITE ROAD 0 RACLE AZ 850 AMES POTTER FAMILY TRUST 61599 E QUARTZITE ROAD 0 RACLE AZ 850 AMES POTTER FAMILY TRUST 61599 E QUARTZITE ROAD 0 RACLE AZ 850 AMES POTTER FAMILY TRUST 61599 E QUARTZITE ROAD 0 RACLE AZ 850 AMES POTTER FAMILY TRUST 61587 E QUARTZITE ROAD 0 RACLE AZ 850 AMES POTTER FAMILY TRUST 61587 E QUARTZITE ROAD 0 RACLE AZ 850 AMES POTTER FAMILY TRUST 61587 E QUARTZITE ROAD 0 RACLE AZ 850 AMES POTTER FAMILY TRUST 61587 E QUARTZITE ROAD 0 RACLE AZ 850 ALEPIA & MARCO WILSON 61635 E QUARTZITE ROAD 0 RACLE AZ 850 ALEPIA & MARCO WILSON 61635 E QUARTZITE ROAD 0 RACLE AZ 850 ALEPIA & MARCO WILSON 61635 E QUARTZITE ROAD 0 RACLE AZ 850 ALEPIA & MARCO WILSON 61635 E QUARTZITE ROAD 0 RACLE AZ 850 ALEPIA & MARCO WILSON 61635 E QUARTZITE ROAD 0 RACLE AZ 850 ALEPIA & MARCO WILSON 61635 E QUARTZITE ROAD 0 RACLE AZ 850 ALEPIA & MARCO WILSON 61635 E QUARTZITE ROAD 0 RACLE AZ 850 ALEPIA & MARCO WILSON 61635 E QUARTZITE ROAD 0 RACLE AZ 850 ALEPIA & MARCO WILSON 61635 E QUARTZITE ROAD 0 RACLE AZ 850 ALEPIA & MARCO WILSON 61635 E QUARTZITE ROAD 0 RACLE AZ 850 ALEPIA & MARCO WILSON 61635 E QUARTZITE ROAD 0 RACLE AZ 850 ALEPIA & MARCO WILSON 61635 E QUARTZITE ROAD 0 RACLE AZ 850 ALEPIA & MARCO WILSON 61635 E QUARTZITE ROAD 0 RACLE AZ 850 ALEPIA & MARCO WILSON 61635 E QUARTZITE ROAD 0 RA					62557
3659 S LEANS WAY					85623
NTHONY & DIANNE SIGNORELLI					85623
THEAN & SHARON THORDASON 61584 E QUARTZITE ROAD 0RACLE AZ 8562	DAVID CACCI	30650 S JEANS WAY	ORACLE		85623
STEVEN JACOBS & NANCY SULLIVAN 2855 EAGLECLIFF DRIVE	ANTHONY & DIANNE SIGNORELLI	30799 S BLUE GRANITE LANE			85623
MARRER BLAYER & JIMMIE BATES 61776 E QUARTZITE ROAD ORACLE AZ \$562	STEFAN & SHARON THORDASON	61584 E QUARTZITE ROAD	ORACLE	AZ	85623
RED & TINA WEBER 61898 E QUARTZITE ROAD 0RACLE AZ \$562 EONARD BUNGLD 61920 E QUARTZITE ROAD 0RACLE AZ \$562 AMES & LINDA PARKINSON 61946 E QUARTZITE ROAD 0RACLE AZ \$562 AMES & LINDA PARKINSON 61946 E QUARTZITE ROAD 0RACLE AZ \$562 AMES & LINDA PARKINSON 61946 E QUARTZITE ROAD 0RACLE AZ \$562 AMES & LINDA PARKINSON 61946 E QUARTZITE ROAD 0RACLE AZ \$562 ERRY & SANDY COOPER 61887 E QUARTZITE ROAD 0RACLE AZ \$562 AMES POTTER FAMILY TRUST 61895 E QUARTZITE ROAD 0RACLE AZ \$562 ALPIR & MARGO WILSON 61827 E QUARTZITE ROAD 0RACLE AZ \$562 ALPIR & MARGO WILSON 61827 E QUARTZITE ROAD 0RACLE AZ \$562 ALPIR & MARGO WILSON 61827 E QUARTZITE ROAD 0RACLE AZ \$562 ALPIR & MARGO WILSON 61827 E QUARTZITE ROAD 0RACLE AZ \$562 ALPIR & MARGO WILSON 61827 E QUARTZITE ROAD 0RACLE AZ \$562 ALPIR & MARGO WILSON 61827 E QUARTZITE ROAD 0RACLE AZ \$562 ALPIR & MARGO WILSON 61827 E QUARTZITE ROAD 0RACLE AZ \$562 ALPIR & MARGO WILSON 61827 E QUARTZITE ROAD 0RACLE AZ \$562 ALPIR & MARGO WILSON 61827 E QUARTZITE ROAD 0RACLE AZ \$562 ALPIR & MARGO WILSON 61827 E QUARTZITE ROAD 0RACLE AZ \$562 ALPIR & WARGO WILSON 61827 E QUARTZITE ROAD 0RACLE AZ \$562 ALPIR & WARGO WILSON 61828 E QUARTZITE ROAD 0RACLE AZ \$562 ALPIR & WARGO WILSON 61828 E QUARTZITE ROAD 0RACLE AZ \$562 ALPIR & WARGO WILSON 61828 E QUARTZITE ROAD 0RACLE AZ \$562 ALPIR & WARGO WILSON 61828 E QUARTZITE ROAD 0RACLE AZ \$562 ALPIR & WARGO WILSON 61828 E QUARTZITE ROAD 0RACLE AZ \$562 ALPIR & WARGO WILSON 61838 E QUARTZITE ROAD 0RACLE AZ \$562 ALPIR & WARGO WILSON 61838 E QUARTZITE ROAD 0RACLE AZ \$562 ALPIR & WARGO WILSON 61838 E QUARTZITE ROAD 0RACLE AZ \$562 ALPIR & WARGO WILSON 61838 E QUARTZITE ROAD 0RACLE AZ \$562 ALPIR & WARGO WILSON 61838 E WARGUTTER ROAD 0RACLE AZ \$562 ALPIR & WARGO WILSON 61838 E WARGUTTER ROAD 0RACLE AZ \$562 ALPIR & WARGO WILSON 61838 E WARGUTTER ROAD 0RACLE AZ \$562 ALPIR & WARGUTTER ROAD 0RAC	STEVEN JACOBS & NANCY SULLIVAN	2855 EAGLECLIFF DRIVE	ESTES PARK	CO	80517
SONARD BRUNOLD	WARREN BEAVER & JIMMIE BATES	61776 E QUARTZITE ROAD	ORACLE	AZ	85623
AMES & LINDA PARKINSON BROWN FAMILY REVOCABLE TRUST 61946 E QUARTIZITE ROAD ORACLE AZ 8562 AMES POTTER FAMILY TRUST 61898 E QUARTIZITE ROAD ORACLE AZ 8562 AMES POTTER FAMILY TRUST 61887 E QUARTIZITE ROAD ORACLE AZ 8562 RERY & \$5ANDY COOPER 61887 E QUARTIZITE ROAD ORACLE AZ 8562 ANE SPOTTER FAMILY TRUST 61887 E QUARTIZITE ROAD ORACLE AZ 8562 AZ 8562 ANE SPOTTER FAMILY TRUST 61887 E QUARTIZITE ROAD ORACLE AZ 8562 AZ 8	FRED & TINA WEBER	61898 E QUARTZITE ROAD	ORACLE	AZ	85623
MICHAEL & SALLY BROWN BROWN FAMILY REVOCABLE TRUST 61999 F_QUARTZITE ROAD ORACLE AZ 8562	LEONARD BRUNOLD	61920 E QUARTZITE ROAD	ORACLE	AZ	85623
AMES POTTER FAMILY TRUST 61909 E QUARTZITE ROAD ORACLE AZ 8562 RERTY & SANDY COOPER 61887 E QUARTZITE ROAD ORACLE AZ 8562 RERTY & SANDY COOPER 61887 E QUARTZITE ROAD ORACLE AZ 8562 RERTY & SANDY COOPER 61887 E QUARTZITE ROAD ORACLE AZ 8562 REPRY & SANDY COOPER RERTY & SANDY RERTY REROAD RERTY RERTY REROAD RETYRE RERTY RER	JAMES & LINDA PARKINSON	61946 E QUARTZITE ROAD	ORACLE	AZ	85623
ERRY & SANDY COOPER	MICHAEL & SALLY BROWN BROWN FAMILY REVOCABLE TRUS	T 61969 E QUARTZITE ROAD	ORACLE	AZ	85623
RETHUR & MARY ANNE FRELUND 61865 E QUARTZITE ROAD 61827 E QUARTZITE ROAD 61828 E QUARTZITE	JAMES POTTER FAMILY TRUST	61909 E QUARTZITE ROAD	ORACLE	AZ	85623
ALPH & MARGO WILSON	TERRY & SANDY COOPER	61887 E QUARTZITE ROAD	ORACLE	AZ	85623
ALPH & MARGO WILSON	ARTHUR & MARY ANNE FRELUND	61865 E QUARTZITE ROAD	ORACLE	AZ	85623
DWARD & KAREN MONAHAN 61787 E QUARTZITE ROAD ORACLE AZ 8562	RALPH & MARGO WILSON	61827 E QUARTZITE ROAD	ORACLE		85623
DWARD & KAREN MONAHAN 61787 E QUARTZITE ROAD ORACLE AZ 8562	WILLIAM & BONNIE LOWEN	`			99676
OHN & JODY BURDICK 61771 E QUARTZITE ROAD ORACLE AZ 8562 BERND & MICHELLE KEMBITZKY 61733 E QUARTZITE ROAD ORACLE AZ 8562 IGHCHELLE JENNINGS 61729 E QUARTZITE ROAD ORACLE AZ 8562 IM & LYNN WAGNER 61707 E QUARTZITE ROAD ORACLE AZ 8562 ITEVEN & SUSANNE SCHUSTER 61689 E QUARTZITE ROAD ORACLE AZ 8562 USAN GITLESON 61665 E QUARTZITE ROAD ORACLE AZ 8562 OSEPH & PAULINE MORAN 61663 E QUARTZITE ROAD ORACLE AZ 8562 OSNINA MABBOT 61567 E QUARTZITE ROAD ORACLE AZ 8562 ORNINA MABBOT 39943 S BLUE GRANITE LANE ORACLE AZ 8562 ORACID RAVILLE & PATRICIA SPIZZIRI 62056 E MARBLE DRIVE ORACLE AZ 8562 ORACID RAVILLE & PATRICIA SPIZZIRI 62056 E MARBLE DRIVE ORACLE AZ 8562 ORACID RAVILLE & PATRICIA SPIZZIRI 62056 E MARBLE DRIVE ORACLE AZ 8562 ORACID RAVILLE & PATRICIA SPIZZIRI					85623
SERND & MICHELLE KEMBITZKY 61753 E QUARTZITE ROAD ORACLE AZ 8562 MICHELLE JENNINGS 61729 E QUARTZITE ROAD ORACLE AZ 8562 MICHELLE JENNINGS 61707 E QUARTZITE ROAD ORACLE AZ 8562 MI & LYNN WAGNER 61707 E QUARTZITE ROAD ORACLE AZ 8562 MI & SUSANNE SCHUSTER 61689 E QUARTZITE ROAD ORACLE AZ 8562 MUSAN GITELSON 61665 E QUARTZITE ROAD ORACLE AZ 8562 MUSAN GITELSON 61665 E QUARTZITE ROAD ORACLE AZ 8562 MUSAN GITELSON 61665 E QUARTZITE ROAD ORACLE AZ 8562 MUSAN GITELSON 61665 E QUARTZITE ROAD ORACLE AZ 8562 MUSAN GITELSON 61665 E QUARTZITE ROAD ORACLE AZ 8562 MUSAN GITELSON 61665 E QUARTZITE ROAD ORACLE AZ 8562 MUSAN GITELSON 61665 E QUARTZITE ROAD ORACLE AZ 8562 MUSAN GITELSON 61665 E QUARTZITE ROAD ORACLE AZ 8562 MUSAN GITELSON 61665 E QUARTZITE ROAD ORACLE AZ 8562 MUSAN GITELSON 61665 E QUARTZITE ROAD ORACLE AZ 8562 MUSAN GITELSON 61665 E QUARTZITE ROAD ORACLE AZ 8562 MUSAN GITELSON 61665 E QUARTZITE ROAD ORACLE AZ 8562 MUSAN GITELSON 61665 E QUARTZITE ROAD ORACLE AZ 8562 MUSAN GITELSON 61665 E QUARTZITE ROAD ORACLE AZ 8562 MUSAN GITELSON 61694 E MARBLE DRIVE ORACLE AZ 8562 MUSAN GITELSON 61694 E MARBLE DRIVE ORACLE AZ 8562 MUSAN GITELSON 61694 E MARBLE DRIVE ORACLE AZ 8562 MUSAN GITELSON 61665 E MARBLE DRIVE ORACLE AZ 8562 MUSAN GITELSON 61676 E MARBLE DRIVE ORACLE AZ 8562 MUSAN GITELSON 61676 E MARBLE DRIVE ORACLE AZ 8562 MUSAN GITELSON 61676 E MARBLE DRIVE ORACLE AZ 8562 MUSAN GITELSON 61676 E MARBLE DRIVE ORACLE AZ 8562 MUSAN GITELSON 61676 E MARBLE DRIVE ORACLE AZ 8562 MUSAN GITELSON 61676 E MARBLE DRIVE ORACLE AZ 8562 MUSAN GITELSON 61676 E MARBLE DRIVE ORACLE AZ 8562 MUSAN GITELSON 61676 E MARBLE DRIVE ORACLE AZ 8562 MUSAN GITELSON 61676 E M					85623
MICHELLE JENNINGS					85623
ME LYNN WAGNER					85623
STEVEN & SUSANNE SCHUSTER 61689 E QUARTZITE ROAD ORACLE AZ 8562					85623
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OSEPH & PAULINE MORAN 61633 E QUARTZITE ROAD ORACLE AZ 8562 GARY & PATRICIA MINARD 61567 E QUARTZITE ROAD ORACLE AZ 8562 30NNA MABBOT SARATOGA TRUST 30943 S BLUE GRANITE LANE ORACLE AZ 8562 0AVID RANVILLE & PATRICIA SPIZZIRRI 62056 E MARBLE DRIVE ORACLE AZ 8562 MARK HUTFLIESS 61994 E MARBLE DRIVE ORACLE AZ 8562 GREGORY FRANK 61954 E MARBLE DRIVE ORACLE AZ 8562 BRUCE & ANNIE ANDERSON 61878 E MARBLE DRIVE ORACLE AZ 8562 BICHARD & RANDY BROSNAHAN 61818 E MARBLE DRIVE ORACLE AZ 8562 BICHARD & RANDY BROSNAHAN 61780 E MARBLE DRIVE ORACLE AZ 8562 VULLIAM ALBU 61762 E MARBLE DRIVE ORACLE AZ 8562 COWAN GAIL TRUST 61706 E MARBLE DRIVE ORACLE AZ 8562		`			85623
GARY & PATRICIA MINARD 61567 E QUARTZITE ROAD ORACLE AZ 8562 BONNA MABBOT SARATOGA TRUST 30943 S BLUE GRANITE LANE ORACLE AZ 8562 DAVID RANVILLE & PATRICIA SPIZZIRRI 62056 E MARBLE DRIVE ORACLE AZ 8562 MERNAN & JAYMEE GUTIERREZ 62034 E MARBLE DRIVE ORACLE AZ 8562 MARK HUTFLIESS 61994 E MARBLE DRIVE ORACLE AZ 8562 BRUCE & ANNIE ANDERSON 61954 E MARBLE DRIVE ORACLE AZ 8562 BRUCE & ANNIE ANDERSON 61878 E MARBLE DRIVE ORACLE AZ 8562 BUCHARTIANNE STALNAKER 61818 E MARBLE DRIVE ORACLE AZ 8562 BUCHARD & RANDY BROSNAHAN 61780 E MARBLE DRIVE ORACLE AZ 8562 BUCHARD & RANDY BROSNAHAN 61762 E MARBLE DRIVE ORACLE AZ 8562 BUCHARD & RANDY BROSNAHAN 61762 E MARBLE DRIVE ORACLE AZ 8562 COBERT & CHERIE LONJERS 61762 E MARBLE DRIVE ORACLE AZ 8562 COWAN GAIL TRUST <td></td> <td>`</td> <td></td> <td></td> <td>85623</td>		`			85623
SONNA MABBOT SARATOGA TRUST 30943 S BLUE GRANITE LANE ORACLE AZ 8562 DAVID RANVILLE & PATRICIA SPIZZIRRI 62056 E MARBLE DRIVE ORACLE AZ 8562 EIERNAN & JAYMEE GUTIERREZ 62034 E MARBLE DRIVE ORACLE AZ 8562 BEGORY FRANK 61994 E MARBLE DRIVE ORACLE AZ 8562 BREGORY FRANK 61994 E MARBLE DRIVE ORACLE AZ 8562 BRUCE & ANNIE ANDERSON 61878 E MARBLE DRIVE ORACLE AZ 8562 BRUCE & ANNIE ANDERSON 61818 E MARBLE DRIVE ORACLE AZ 8562 BRUCE & ANNIE ANDERSON 61818 E MARBLE DRIVE ORACLE AZ 8562 BRUCE ARANDY BROSNAHAN 61780 E MARBLE DRIVE ORACLE AZ 8562 BRUCE ARANDY BROSNAHAN 61760 E M					85623
DAVID RANVILLE & PATRICIA SPIZZIRRI 62056 E MARBLE DRIVE ORACLE AZ 8562 HERNAN & JAYMEE GUTIERREZ 62034 E MARBLE DRIVE ORACLE AZ 8562 MARK HUTFLIESS 61994 E MARBLE DRIVE ORACLE AZ 8562 BREGORY FRANK 61954 E MARBLE DRIVE ORACLE AZ 8562 BRUCE & ANNIE ANDERSON 61878 E MARBLE DRIVE ORACLE AZ 8562 AVID & MARIANNE STALNAKER 61818 E MARBLE DRIVE ORACLE AZ 8562 AUCHARD & RANDY BROSNAHAN 61780 E MARBLE DRIVE ORACLE AZ 8562 AUGHARD & CHERTE LONIERS 61762 E MARBLE DRIVE ORACLE AZ 8562 VILLIAM ALBU 61724 E MARBLE DRIVE ORACLE AZ 8562 COWAN GAIL TRUST 61706 E MARBLE DRIVE ORACLE AZ 8562					
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MARK HUTFLIESS 61994 E MARBLE DRIVE ORACLE AZ 8562 GREGORY FRANK 61954 E MARBLE DRIVE ORACLE AZ 8562 DRUCE & ANNIE ANDERSON 61878 E MARBLE DRIVE ORACLE AZ 8562 DAVID & MARIANNE STALNAKER 61818 E MARBLE DRIVE ORACLE AZ 8562 RICHARD & RANDY BROSNAHAN 61780 E MARBLE DRIVE ORACLE AZ 8562 ROBERT & CHERIE LONJERS 61762 E MARBLE DRIVE ORACLE AZ 8562 VULLIAM ALBU 61724 E MARBLE DRIVE ORACLE AZ 8562 COWAN GAIL TRUST 61706 E MARBLE DRIVE ORACLE AZ 8562					85623
GREGORY FRANK 61954 E MARBLE DRIVE ORACLE AZ 8562 BRUCE & ANNIE ANDERSON 61878 E MARBLE DRIVE ORACLE AZ 8562 DAVID & MARIANNE STALDAKER 61818 E MARBLE DRIVE ORACLE AZ 8562 RICHARD & RANDY BROSNAHAN 61780 E MARBLE DRIVE ORACLE AZ 8562 VOBERT & CHERIE LONJERS 61762 E MARBLE DRIVE ORACLE AZ 8562 VULLIAM ALBU 61724 E MARBLE DRIVE ORACLE AZ 8562 COWAN GAIL TRUST 61706 E MARBLE DRIVE ORACLE AZ 8562					
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AZ 8562 RICHARD & RANDY BROSNAHAN RICHARD &					
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ROBERT & CHERIE LONJERS 61762 E MARBLE DRIVE ORACLE AZ 8562 VILLIAM ALBU 61724 E MARBLE DRIVE ORACLE AZ 8562 COWAN GAIL TRUST 61706 E MARBLE DRIVE ORACLE AZ 8562					
VILLIAM ALBU 61724 E MARBLE DRIVE ORACLE AZ 8562 COWAN GAIL TRUST 61706 E MARBLE DRIVE ORACLE AZ 8562					
COWAN GAIL TRUST 61706 E MARBLE DRIVE ORACLE AZ 8562					
HAKLES & MARCIA WILSON P.O. BOX 1321 SAGLE ID 8386					
	CHARLES & MARCIA WILSON	P.O. BOX 1321	SAGLE	שו	83860

DALE & MARIE MALLOY	61670 E MARBLE DRIVE	ORACLE	AZ	85623
LISA LESLIE	61652 E MARBLE DRIVE	ORACLE	AZ	85623
ANDREW & ERIKA BARNES	61636 E MARBLE DRIVE	ORACLE	AZ	85623
ROBERT & GERALDINE ORTEGA	62057 E MARBLE DRIVE	ORACLE	AZ	85623
KIM YOUNG & JACQUELINE LINCOLN	4086 GREYSTONE DRIVE	HARRISBURG	PA	17112
GARY & NANCY NIX	62019 E MARBLE DRIVE	ORACLE	AZ	85623
DAVID & JILL MORETTO	62001 E MARBLE DRIVE	ORACLE	AZ	85623
HARRY & ARLENE TONGES	61985 E MARBLE DRIVE	ORACLE	AZ	85623
RONALD DAHMEN	61967 E MARBLE DRIVE	ORACLE	AZ	85623
ROBERT & SUSAN DELEHANTY	61951 E MARBLE DRIVE	ORACLE	AZ	85623
BRUCE & ALISON HANEY	61933 E MARBLE DRIVE	ORACLE	AZ	85623
ROBERT & CHERYL COBB	61915 E MARBLE DRIVE	ORACLE	AZ	85623
THOMAS BRISCH & MARGARET DARMODY-BRISCH	61899 E MARBLE DRIVE	ORACLE	AZ	85623
RUSSELL LOVELL & CYNTHIA WALKER	61877 E MARBLE DRIVE	ORACLE	AZ	85623
FRANK & SHARON MORRIS	61839 E MARBLE DRIVE	ORACLE	AZ	85623
MICHAEL & JUANITA GALLAGHER	P.O. BOX 1509	ORACLE	AZ	85623
MARK & KAREN ADAMSON	61795 E MARBLE DRIVE	ORACLE	AZ	85623
NANCY LINDSLEY	61755 E MARBLE DRIVE	ORACLE	AZ	85623
CARL & MYRIAM BARTHOLE	61737 E MARBLE DRIVE	ORACLE	AZ	85623
FRANK PFAFFENBICHLER	61719 E MARBLE DRIVE	ORACLE	AZ	85623
JOHN KRAPF	61697 E MARBLE DRIVE	ORACLE	AZ	85623
TIMOTHY & LYNNE GRAVES	61675 E MARBLE DRIVE	ORACLE	AZ	85623
MICHAEL WEBBER & DONNA FOX-WEBBER	61659 E MARBLE DRIVE	ORACLE	AZ	85623
GREGORY FRANK	61637 E MARBLE DRIVE	ORACLE	AZ	85623
ANDEE HEABERLIN	61619 E MARBLE DRIVE	ORACLE	AZ	85623
SUSAN & MARK SLOCUM	45055 RUTHERFORD STREET	TEMECULA	CA	92592
SUSAN & TIMOTHY WULFF	1149 THELIN COURT	BATAVIA	IL	60510
BUONARIGO R&S	1025 E CHALYNN AVE	ORANGE	CA	92866
BARRY FEINBERG	62064 E DEAD WOOD TRAIL	ORACLE	AZ	85623
LUCY & HANS LANGE	62026 E DEAD WOOD TRAIL	ORACLE	AZ	85623
DAN RUYLE & SHARI STOCK	61988 E DEAD WOOD TRAIL	ORACLE	AZ	85623
DON & JOYCE COX	61952 E DEAD WOOD TRAIL	ORACLE	AZ	85623
WILLIAM & ELBA MCGINN	61930 E DEAD WOOD TRAIL	ORACLE	AZ	85623
DAVITT & SUSAN ARMSTRONG	61912 E DEAD WOOD TRAIL	ORACLE	AZ	85623
DANIEL BROWN	61894 E DEAD WOOD TRAIL	ORACLE	AZ	85623
JOHN & MARIA ANTONUCCI	61876 E DEAD WOOD TRAIL	ORACLE	AZ	85623
CHARLES & DAVID WREN	61804 E DEAD WOOD TRAIL	ORACLE	AZ	85623
LINDA & ROBER BROCK	61766 E DEAD WOOD TRAIL	ORACLE	AZ	85623
SANDRA KEELIN	61726 E DEAD WOOD TRAIL	ORACLE	AZ	85623
CHARLES & SUSAN EGGLESTON	61688 E DEAD WOOD TRAIL	ORACLE	AZ	85623
DAVID & ANNA CURTIS	61648 E DEAD WOOD TRAIL	ORACLE	AZ	85623
RANDY & AUDREY GELB	61608 E DEAD WOOD TRAIL	ORACLE	AZ	85623
PAUL & KATHLEEN HUTCHENS	61568 E DEAD WOOD TRAIL	ORACLE	AZ	85623
THOMAS & NORMA TANNER THOMAS & NORMA TANNER	3400 N 109TH TERRACE	KANSAS CITY	KS	66109
TOMMY & FLORENCE KIRCHNER	354 ADAIR DRIVE	RICHLAND	WA	99352
JAMES & MARGARET CLARK		ORACLE	AZ	85623
	61446 E DEAD WOOD TRAIL			
FLOYD & CORALIE MCMILLEN	61408 E DEAD WOOD TRAIL	ORACLE	AZ	85623
DAVID & SHIRLEY HUNTER	61370 E DEAD WOOD TRAIL	ORACLE	AZ	85623
WARREN & DONNA BURTON	61330 E DEAD WOOD TRAIL	ORACLE	AZ	85623
ROBERT & SHIRLEY LEWIS	61294 E DEAD WOOD TRAIL	ORACLE	AZ	85623
JERRY & ABIGAIL FOOTE				
	11017 55TH AVENUE	MUKILTEO	WA	98275
JOHN & MARY GREEN		ORACLE	WA AZ	98275 85623
	11017 55TH AVENUE			
JOHN & MARY GREEN	11017 55TH AVENUE 31208 S ONE HORSE LANE	ORACLE	AZ	85623
JOHN & MARY GREEN MARIA ASTAIRE THOMAS & MICHELLE SMITH	11017 55TH AVENUE 31208 S ONE HORSE LANE 31226 ONE HORSE LANE 31240 ONE HORSE LANE	ORACLE ORACLE ORACLE	AZ AZ AZ	85623 85623 85623
JOHN & MARY GREEN MARIA ASTAIRE THOMAS & MICHELLE SMITH DAVID & MARGARET MALPHURS	11017 55TH AVENUE 31208 S ONE HORSE LANE 31226 ONE HORSE LANE 31240 ONE HORSE LANE 31258 S ONE HORSE LANE	ORACLE ORACLE ORACLE ORACLE	AZ AZ AZ AZ	85623 85623 85623 85623
JOHN & MARY GREEN MARIA ASTAIRE THOMAS & MICHELLE SMITH DAVID & MARGARET MALPHURS STEPHEN SUSSMAN	11017 55TH AVENUE 31208 S ONE HORSE LANE 31226 ONE HORSE LANE 31240 ONE HORSE LANE 31258 S ONE HORSE LANE 31272 ONE HORSE LANE	ORACLE ORACLE ORACLE ORACLE ORACLE	AZ AZ AZ AZ AZ	85623 85623 85623 85623 85623
JOHN & MARY GREEN MARIA ASTAIRE THOMAS & MICHELLE SMITH DAVID & MARGARET MALPHURS STEPHEN SUSSMAN THOMAS CAMPBELL	11017 55TH AVENUE 31208 S ONE HORSE LANE 31226 ONE HORSE LANE 31240 ONE HORSE LANE 31258 S ONE HORSE LANE 31272 ONE HORSE LANE 61799 E DEAD WOOD TRAIL	ORACLE ORACLE ORACLE ORACLE ORACLE ORACLE ORACLE	AZ AZ AZ AZ AZ AZ AZ	85623 85623 85623 85623 85623 85623
JOHN & MARY GREEN MARIA ASTAIRE THOMAS & MICHELLE SMITH DAVID & MARGARET MALPHURS STEPHEN SUSSMAN	11017 55TH AVENUE 31208 S ONE HORSE LANE 31226 ONE HORSE LANE 31240 ONE HORSE LANE 31258 S ONE HORSE LANE 31272 ONE HORSE LANE	ORACLE ORACLE ORACLE ORACLE ORACLE	AZ AZ AZ AZ AZ	85623 85623 85623 85623 85623

RICHARD KOOP & BARBARA MILES	61673 E DEAD WOOD TRAIL	ORACLE	AZ	85623
DAVID & MICHELLE MUSGROVE	61633 E DEAD WOOD TRAIL	ORACLE	AZ	85623
TONY & SHIRLEY SULLIVAN	61595 E DEAD WOOD TRAIL	ORACLE	AZ	85623
FRANK & CAROLINE ENGRAFF	61557 E DEAD WOOD TRAIL	ORACLE	AZ	85623
JOHAN & CARMA KARSTENS	61521 E DEAD WOOD TRAIL	ORACLE	AZ	85623
PAUL & HELGA LEEVAN	61479 E DEAD WOOD TRAIL	ORACLE	AZ	85623
ROBERT THOMPSON	61441 E DEAD WOOD TRAIL	ORACLE	AZ	85623
ANTHONY & SHERRY PIETRZYKOSKI	61403 E DEAD WOOD TRAIL	ORACLE	AZ	85623
DIANE CHRAMM	61367 E DEAD WOOD TRAIL	ORACLE	AZ	85623
ROBERT & MARILYN PIPES	61323 E DEAD WOOD TRAIL	ORACLE	AZ	85623
GERALD TIETJE	31211 ONE HORSE LANE	ORACLE	AZ	85623
STEPHEN & KAREN BELLINGER	31233 ONE HORSE LANE	ORACLE	AZ	85623
JOYCE HELLARD	31249 ONE HORSE LANE	ORACLE	AZ	85623
BRUCE MACIVER & SHERANN ELLSWORTH	31265 ONE HORSE LANE	ORACLE	AZ	85623
ROBERT & CAROL MUNK	61820 E HAPPY JACK TRAIL	ORACLE	AZ	85623
VINCENT & MARY FUNG	61806 E HAPPY JACK TRAIL	ORACLE	AZ	85623
PETER & JANET STORTON	61780 E HAPPY JACK TRAIL	ORACLE	AZ	85623
BRUCE & LINDA KELLER	61756 E HAPPY JACK TRAIL	ORACLE	AZ	85623
SUSANNE & CURTIS KOOIKER	P.O. BOX 398	RICHLAND	WA	99352
BERNARD & CECELIA VERTNIK	61706 E HAPPY JACK TRAIL	ORACLE	AZ	85623
TROY PETERSON	61686 E HAPPY JACK TRAIL	ORACLE	AZ	85623
LIESE & MICHAEL RAZZETO	61670 E HAPPY JACK TRAIL	ORACLE	AZ	85623
SHARON WESSMAN	61654 E HAPPY JACK TRAIL	ORACLE	AZ	85623
ALLEN & LINDA VOLLMER	61636 E HAPPY JACK TRAIL	ORACLE	AZ	85623
PHYLLIS & ROGER BONVOULOIR	61618 E HAPPY JACK TRAIL	ORACLE	AZ	85623
THOMAS & KAREN CARR	61600 E HAPPY JACK TRAIL	ORACLE	AZ	85623
BANNER DOUGHERTY & AMANDA BLOOD	62119 E DEAD WOOD TRAIL	ORACLE	AZ	85623
TONI & LOWELL GRAVES	62111 E DEAD WOOD TRAIL	ORACLE	AZ	85623
LINDA & KENNETH GORMAN	62093 E DEAD WOOD TRAIL	ORACLE	AZ	85623
CHARLES & LOREN WEIMER	62075 E DEAD WOOD TRAIL	ORACLE	AZ	85623
CHARLES & ELIZABETH HENDRYX	62051 E DEAD WOOD TRAIL	ORACLE	AZ	85623
JAMES HOAGLAND & GLENNA MATTHEWS	62035 E DEAD WOOD TRAIL	ORACLE	AZ	85623
KENNETH & KAREN SANDERS	2 JEFFERS LOOP ROAD	ENNIS	MT	59729
RICHARD & MARGARET ROGERS	61993 E DEAD WOOD TRAIL	ORACLE	AZ	85623
CHRISTINE WOJNAROWICZ & DAVID BATES	61971 E DEAD WOOD TRAIL	ORACLE	AZ	85623
JOSEPH & PATRICIA CIMO	61955 E DEAD WOOD TRAIL	ORACLE	AZ	85623
BRIAN & DARLYNN NERO	61935 E DEAD WOOD TRAIL	ORACLE	AZ	85623
ROGER COWLES & SUSAN LUCARELLI	61913 E DEAD WOOD TRAIL	ORACLE	AZ	85623
RICHARD & JUDY ROBBINS	61851 E HAPPY JACK TRAIL	ORACLE	AZ	85623
JAMES & MARGARET RODGERS	61843 E HAPPY JACK TRAIL	ORACLE	AZ	85623
LEE & JULIE EDMONSON	61837 E HAPPY JACK TRAIL	ORACLE	AZ	85623
MICHAEL MARCHIONE & AMY FILLMORE-MARCHIONE	61829 E HAPPY JACK TRAIL	ORACLE	AZ	85623
CAROLINE & CHRISTOPHER RAMOS	2160 BOULDER MEADOW LANE	OAK HARBOR	WA	98277
BRENT & JACKIE HATHHORN	3508 S MIZE RIDGE COURT		MO	64057
		INDEPENDENCE		
NANCY STIRLING	61761 E HAPPY JACK TRAIL	ORACLE	AZ	85623
RONALD & SANDRA NOBLE	61741 E HAPPY JACK TRAIL	ORACLE	AZ	85623
GREGORY HALVACS	61723 E HAPPY JACK TRAIL	ORACLE	AZ	85623
JAMES & SUSAN HYNES	61705 E HAPPY JACK TRAIL	ORACLE	AZ	85623
THE MESSNER FAMILY TRUST	61687 E HAPPY JACK TRAIL	ORACLE	AZ	85623
RICHARD HEINE	61667 E HAPPY JACK TRAIL	ORACLE	AZ	85623
BRANDT CARTER	61647 E HAPPY JACK TRAIL	ORACLE	AZ	85623
THOMAS & PAMELA ENGELHARDT	61627 E HAPPY JACK TRAIL	ORACLE	AZ	85623
WILLIAM & JEAN WELLS	61609 E HAPPY JACK TRAIL	ORACLE	AZ	85623
	1 111			
ROBERT FRANK	61591 E HAPPY JACK TRAIL	ORACLE	AZ	85623
GERALD & JUDY ADAMS	61559 E HAPPY JACK TRAIL	ORACLE	AZ	85623
MARK & KITTY POHLER	61537 E HAPPY JACK TRAIL	ORACLE	AZ	85623
DONALD & LINDA MAMULA	61517 E HAPPY JACK TRAIL	ORACLE	AZ	85623
PETER & ROXANNE WATSON	61497 E HAPPY JACK TRAIL	ORACLE	AZ	85623
MILAN & PAMELA STEUBE	31315 S HILDOGO DRIVE	SADDLEBROOKE	AZ	85623
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NICHOLAS & KAREN VALENTINE ROBERT & JUDITH KOERNER 31285 S HILDOGO DRIVE ORACLE AZ ERIK DAVIDSON & HEATHER BODA 5268 STATE HIGHWAY 66 LONOMONT CO DAVID & MARYELLEN DUNCAN 31235 S HILDOGO DRIVE ORACLE AZ BILL & IRENE KEIL 31217 S HILDOGO DRIVE ORACLE AZ FRANCES WINTER 31199 S HILDOGO DRIVE ORACLE AZ NORBERT WEISBECK & ANNA UNG 31185 S HILDOGO DRIVE ORACLE AZ NORBERT WEISBECK & ANNA UNG 31185 S HILDOGO DRIVE ORACLE AZ DAVID & BARBARA ST JULES AS AS BARBARA ST JULES AS AS BARBARA ST JULES AS BARBARA ST JULES AS BARBARA ST JULES AS BARBARA ST JULES BARBARA B	43021 80502 80504 85622 85
ERIK DAVIDSON & HEATHER BODA 5268 STATE HIGHWAY 66 LONGMONT CO DAVID & MARYELLEN DUNCAN 31253 S HILLDOGO DRIVE ORACLE AZ BILL & RENE KEIL 31217 S HILLDOGO DRIVE ORACLE AZ FRANCES WINTER 31199 S HILDOGO DRIVE ORACLE AZ NORBERT WEISBECK & ANNA UNG 31185 S HILLDOGO DRIVE ORACLE AZ NORBERT WEISBECK & ANNA UNG 31185 S HILLDOGO DRIVE ORACLE AZ NORBERT WEISBECK & ANNA UNG 31185 S HILLDOGO DRIVE ORACLE AZ DAVID & BARBARA ST JULES 31171 S HILLDOGO DRIVE ORACLE AZ HAROLD & SHERI JACKSON 61482 E SHALE ROAD ORACLE AZ DANIEL & JEANETTE GREEN 61416 E SHALE ROAD ORACLE AZ DANIEL & JEANETTE GREEN 61416 E SHALE ROAD ORACLE AZ ROBERT & SUSAN MORRILL 61364 E SHALE ROAD ORACLE AZ ROBERT & SUSAN MORRILL 61364 E SHALE ROAD ORACLE AZ CLAUDE & LEE ANN MATTIX 61364 E SHALE ROAD ORACLE AZ THOMAS & BARBARA KALISKI 61318 E SHALE ROAD ORACLE AZ THOMAS & BARBARA KALISKI 61318 E SHALE ROAD ORACLE AZ THOMAS & BARBARA KALISKI 61318 E SHALE ROAD ORACLE AZ JOHN & SUZAN FORD 1371 COUNTRY CLUB DRIVE CAMANO ISLAND WA SUZANNE TOMS 61276 E SHALE ROAD ORACLE AZ JOHN & JUDY SCOTT 1371 COUNTRY CLUB DRIVE CAMANO ISLAND WA SUZANNE TOMS 61276 E SHALE ROAD ORACLE AZ JOHN & SHERIDA SOWERBY 61276 E SHALE ROAD ORACLE AZ JOHN & SHERIDA SOWERBY 61240 E SHALE ROAD ORACLE AZ JOHN & SHERIDA SOWERBY 61240 E SHALE ROAD ORACLE AZ JOHN & SHERIDA SOWERBY 61240 E SHALE ROAD ORACLE AZ JOHN & SHERIDA SOWERBY 61240 E SHALE ROAD ORACLE AZ JOHN & SHERIDA SOWERBY 61240 E SHALE ROAD ORACLE AZ JOHN & SHERIDA SOWERBY 61240 E SHALE ROAD ORACLE AZ JOHN & SHERIDA SOWERBY 61240 E SHALE ROAD ORACLE AZ JOHN & SHERIDA SOWERBY 61240 E SHALE ROAD ORACLE AZ JOHN & SHERIDA SOWERBY 61240 E SHALE ROAD ORACLE AZ JOHN & SHERIDA SOWERBY 61240 E SHALE ROAD ORACLE AZ JOHN & SHERIDA SOWERBY 61240 E SHALE ROAD ORACLE AZ JOHN & SHERIDA SOWERBY 61240 E SHALE ROAD ORACLE AZ	80504 85622 85622 85622 85622 85622 85622 83824 94507 85622 85622 85622 85622 85622 85622 85622
DAVID & MARYELLEN DUNCAN 3127 S HILDOGO DRIVE ORACLE AZ BILL & IRENE KEIL 3127 S HILDOGO DRIVE ORACLE AZ NORBERT WEISBECK & ANNA UNG 31185 S HILDOGO DRIVE ORACLE AZ NORBERT WEISBECK & ANNA UNG 31185 S HILDOGO DRIVE ORACLE AZ NORBERT WEISBECK & ANNA UNG 31185 S HILDOGO DRIVE ORACLE AZ DAVID & BARBARA ST JULES 31171 S HILDOGO DRIVE ORACLE AZ HAROLD & SHERI JACKSON 61482 E SHALE ROAD ORACLE AZ HAROLD & SHERI JACKSON 61482 E SHALE ROAD ORACLE AZ RODNEY EASTERBY & ROCHELLE DIANN 147 IRONWOOD DRIVE BLANCHARD ID JAMIE BELTRAN 103 GOLDEN RIDGE ROAD ALAMO CA ROBERT & SUSAN MORRILL 61364 E SHALE ROAD ORACLE AZ CLAUDE & LEE ANN MATTIX 11107 W 132ND COURT OVERLAND PARK KS WAYNE & DEBRA MCGIBONEY 61306 E SHALE ROAD ORACLE AZ THOMAS & BARBARA KALISKI 61316 E SHALE ROAD ORACLE AZ JOHN & JUDY SCOTT 1371 COUNTRY CLUB DRIVE CAMANO ISLAND WA SUZANNE TOMS 61276 E SHALE ROAD ORACLE AZ JOHN & SHERIDA SOWERBY 61240 E SHALE ROAD ORACLE AZ AZ ELIZABETH BRAUN 61240 E SHALE ROAD ORACLE AZ ORACLE AZ ORACLE AZ AZ ORACLE AZ AZ DAVID & GRACLE AZ AZ DAVID & GRACLE AZ DAV	85622 85622 85622 85622 85622 85622 83804 94502 66211 85622 85622 85622 85622 85622 85622
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RODNEY EASTERBY & ROCHELLE DIANN JAMIE BELTRAN 103 GOLDEN RIDGE ROAD ALAMO CA ROBERT & SUSAN MORRILL 61364 E SHALE ROAD ORACLE AZ CLAUDE & LEE ANN MATTIX 11107 W 132ND COURT OVERLAND PARK KS WAYNE & DEBRA MCGIBONEY 161312 E SHALE ROAD ORACLE AZ THOMAS & BARBARA KALISKI 61318 E SHALE ROAD ORACLE AZ JAMES BRADFORD 61306 E SHALE ROAD ORACLE AZ JOHN & JUDY SCOTT 1371 COUNTRY CLUB DRIVE CAMANO ISLAND WA SUZANNE TOMS 161276 E SHALE ROAD ORACLE AZ JOHN & SHERIDA SOWERBY 61276 E SHALE ROAD ORACLE AZ JOHN & SHERIDA SOWERBY 61240 E SHALE ROAD ORACLE AZ	83804 94507 85623 66213 85623 85623 85623 85623 85623
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TROY & TINA FUGLEBERG 61216 E SHALE ROAD ORACLE AZ	85623
CATHERINE STEEL 61202 E SHALE ROAD ORACLE AZ	85623
ANDREW & SHELIAH DREWIENKOWSKI 61188 E SHALE ROAD ORACLE AZ	85623
LINDA LASATER 61176 E SHALE ROAD ORACLE AZ	85623
KARLA RIORDAN 61162 E SHALE ROAD OR ACLE AZ	85623
FABIAN ROBLES 61148 E SHALE ROAD ORACLE AZ	85623
STANLEY BODEEN 61104 E SHALE ROAD ORACLE AZ	85623
HAROLD & SHERRYL TEEL 61094 E SLATE ROAD ORACLE AZ	85623
ROBERT & KIMBERLEE FORTIN 2917 181ST PLACE NW STANWOOD WA	98292
ROGER & CHRISTINE YOUNG 61070 E SLATE ROAD ORACLE AZ	85623
SARA NIEDERLEHNER 61058 E SLATE ROAD ORACLE AZ	85623
THOMAS & IRENE PERRY 61044 E SLATE ROAD ORACLE AZ	85623
STEVEN APFELBAUM 30843 S CANYON VISTA WAY ORACLE AZ	
	85623
ROBERT SOUCEK 5552 S DELAWARE COURT TULSA OK	74105
CAROL ENNIS 30815 S CANYON VISTA WAY ORACLE AZ	74105 85623
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CAROL ENNIS 30815 S CANYON VISTA WAY ORACLE AZ GERRI JURGENSMEYER 30803 S CANYON VISTA WAY ORACLE AZ RONALD & REBECCA VITULLO 30789 S CANYON VISTA WAY ORACLE AZ	74105 85623 85623 85623
CAROL ENNIS 30815 S CANYON VISTA WAY ORACLE AZ GERRI JURGENSMEYER 30803 S CANYON VISTA WAY ORACLE AZ RONALD & REBECCA VITULLO 30789 S CANYON VISTA WAY ORACLE AZ CHERYL JANUZZI 1438 CEDAR STREET LAKE OSWEGO OR DAVID & ANN PALENSHUS 30822 S CANYON VISTA WAY ORACLE AZ	74105 85623 85623 85623 97034 85623
CAROL ENNIS 30815 S CANYON VISTA WAY ORACLE AZ GERRI JURGENSMEYER 30803 S CANYON VISTA WAY ORACLE AZ RONALD & REBECCA VITULLO 30789 S CANYON VISTA WAY ORACLE AZ CHERYL JANUZZI 1438 CEDAR STREET ORACLE AZ DAVID & ANN PALENSHUS 30822 S CANYON VISTA WAY ORACLE AZ JAMES LILLEY ORACLE AZ	74105 85623 85623 85623 97034 85623 85623
CAROL ENNIS 30815 S CANYON VISTA WAY ORACLE AZ GERRI JURGENSMEYER 30803 S CANYON VISTA WAY ORACLE AZ RONALD & REBECCA VITULLO 30789 S CANYON VISTA WAY ORACLE AZ CHERYL JANUZZI 143 CEDAR STREET LAKE OSWEGO OR DAVID & ANN PALENSHUS 30840 S CANYON VISTA WAY ORACLE AZ JAMES LILLEY 30840 S CANYON VISTA WAY ORACLE AZ JERRY & KATHLEEN MEYER 30866 S CANYON VISTA WAY ORACLE AZ	74105 85623 85623 85623 97034 85623 85623 85623
CAROL ENNIS 30815 S CANYON VISTA WAY ORACLE AZ GERRI JURGENSMEYER 30803 S CANYON VISTA WAY ORACLE AZ RONALD & REBECCA VITULLO 30789 S CANYON VISTA WAY ORACLE AZ CHERYL JANUZZI 1438 CEDAR STREET LAKE OSWEGO OR DAVID & ANN PALENSHUS 30822 S CANYON VISTA WAY ORACLE AZ JERRY & KATHLEEN MEYER 30866 S CANYON VISTA WAY ORACLE AZ GRANDY & LISA FRIEDMAN ORACLE AZ RANDY & LISA FRIEDMAN ORACLE AZ	74105 85622 85623 85623 97034 85623 85623 85623 85623
CAROL ENNIS 30815 S CANYON VISTA WAY ORACLE AZ GERRI JURGENSMEYER 30803 S CANYON VISTA WAY ORACLE AZ RONALD & REBECCA VITULLO 30789 S CANYON VISTA WAY ORACLE AZ CHERYL JANUZZI 1438 CEDAR STREET LAKE OSWEGO OR DAVID & ANN PALENSHUS 30822 S CANYON VISTA WAY ORACLE AZ JERRY & KATHILEEN MEYER 30866 S CANYON VISTA WAY ORACLE AZ JERRY & KATHILEEN MEYER 30866 S CANYON VISTA WAY ORACLE AZ RANDY & LISA FRIEDMAN 30882 S CANYON VISTA WAY ORACLE AZ SHEREE GILLASPIE 16410 SUNTREE LANE SISTERS OR	74105 85622 85623 85623 97034 85623 85623 85623 85623
CAROL ENNIS 30815 S CANYON VISTA WAY ORACLE AZ GERRI JURGENSMEYER 30803 S CANYON VISTA WAY ORACLE AZ RONALD & REBECCA VITULLO 30789 S CANYON VISTA WAY ORACLE AZ CHERYL JANUZZI 1438 CEDAR STREET LAKE OSWEGO OR DAVID & ANN PALENSHUS 30822 S CANYON VISTA WAY ORACLE AZ JAMES LILLEY 30840 S CANYON VISTA WAY ORACLE AZ JERRY & KATHLEEN MEYER 30866 S CANYON VISTA WAY ORACLE AZ RANDY & LISA FRIEDMAN 30882 S CANYON VISTA WAY ORACLE AZ SHEREE GILLASPIE 16410 SUNTREE LANE SISTERS OR DAVID & KAREN JORDAN	74105 85623 85623 85623 97034 85623 85623 85623 85623 85623
CAROL ENNIS GERRI JURGENSMEYER 30803 S CANYON VISTA WAY ORACLE AZ RONALD & REBECCA VITULLO 30789 S CANYON VISTA WAY ORACLE AZ RONALD & REBECCA VITULLO 30789 S CANYON VISTA WAY ORACLE AZ CHERYL JANUZZI DAVID & ANN PALENSHUS 30822 S CANYON VISTA WAY ORACLE AZ JAMES LILLEY JERRY & KATHILEEN MEYER 30840 S CANYON VISTA WAY ORACLE AZ JERRY & KATHILEEN MEYER 30866 S CANYON VISTA WAY ORACLE AZ RANDY & LISA FRIEDMAN 30882 S CANYON VISTA WAY ORACLE AZ RANDY & LISA FRIEDMAN 30882 S CANYON VISTA WAY ORACLE AZ SHEREE GILLASPIE 16410 SUNTREE LANE SISTERS OR DAVID & KAREN JORDAN 30944 S CANYON VISTA WAY ORACLE AZ STEPHEN MARADA	74105 85623 85623 97034 85623 85623 85623 85623 85623 85623 85623
CAROL ENNIS 30815 S CANYON VISTA WAY ORACLE AZ GERRI JURGENSMEYER 30803 S CANYON VISTA WAY ORACLE AZ RONALD & REBECCA VITULLO 30789 S CANYON VISTA WAY ORACLE AZ CHERYL JANUZZI 1438 CEDAR STREET LAKE OSWEGO OR DAVID & ANN PALENSHUS 30822 S CANYON VISTA WAY ORACLE AZ JAMES LILLEY 30840 S CANYON VISTA WAY ORACLE AZ JERRY & KATHLEEN MEYER 30866 S CANYON VISTA WAY ORACLE AZ RANDY & LISA FRIEDMAN 30882 S CANYON VISTA WAY ORACLE AZ SHEREE GILLASPIE 16410 SUNTREE LANE SISTERS OR DAVID & KAREN JORDAN	74105 85623 85623 85623 97034 85623 85623 85623 85623 85623
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CAROL ENNIS GERRI JURGENSMEYER 30803 S CANYON VISTA WAY ORACLE AZ RONALD & REBECCA VITULLO 30789 S CANYON VISTA WAY ORACLE AZ CHERYL JANUZZI DAVID & ANN PALENSHUS 30822 S CANYON VISTA WAY ORACLE AZ JAMES LILLEY 30840 S CANYON VISTA WAY ORACLE AZ JERRY & KATHLEEN MEYER 30866 S CANYON VISTA WAY ORACLE AZ RANDY & LISA FRIEDMAN 30882 S CANYON VISTA WAY ORACLE AZ SHEREE GILLASPIE 16410 SUNTREE LANE SISTERS OR DAVID & KAREN JORDAN 30926 S CANYON VISTA WAY ORACLE AZ STEPHEN MARADA 30944 S CANYON VISTA WAY ORACLE AZ STEPHEN MARADA 30946 S CANYON VISTA WAY ORACLE AZ STEPHEN MARADA 30946 S CANYON VISTA WAY ORACLE AZ SUSAN & DAVID MARX 30940 S CANYON VISTA WAY ORACLE AZ SUSAN & DAVID MARX 30960 S CANYON VISTA WAY ORACLE AZ RICHARD & DALEEN FITZGERALD	74105 85622 85622 97034 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622
CAROL ENNIS GERRI JURGENSMEYER 30803 S CANYON VISTA WAY ORACLE AZ RONALD & REBECCA VITULLO 30789 S CANYON VISTA WAY ORACLE AZ RONALD & REBECCA VITULLO 30789 S CANYON VISTA WAY ORACLE AZ RONALD & REBECCA VITULLO 30789 S CANYON VISTA WAY ORACLE AZ RONALD & REBECCA VITULLO 30789 S CANYON VISTA WAY ORACLE AZ DAVID & ANN PALENSHUS 30822 S CANYON VISTA WAY ORACLE AZ JAMES LILLEY 30840 S CANYON VISTA WAY ORACLE AZ JERRY & KATHLEEN MEYER 30866 S CANYON VISTA WAY ORACLE AZ SHEREE GILLASPIE 16410 SUNTREE LANE SISTERS OR DAVID & KAREN JORDAN 30926 S CANYON VISTA WAY ORACLE AZ STEPHEN MARADA 30944 S CANYON VISTA WAY ORACLE AZ STEPHEN MARADA 30944 S CANYON VISTA WAY ORACLE AZ RICHARD & DAVID MARX 30968 S CANYON VISTA WAY ORACLE AZ RICHARD & DAVID MARX 30968 S CANYON VISTA WAY ORACLE AZ LMB PROPERTY INVESTMENTS LLC ORACLE AZ	74105 85622 85622 97034 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622
CAROL ENNIS GERRI JURGENSMEYER 30803 S CANYON VISTA WAY ORACLE AZ RONALD & REBECCA VITULLO 30789 S CANYON VISTA WAY ORACLE AZ RONALD & REBECCA VITULLO 30789 S CANYON VISTA WAY ORACLE AZ RONALD & ROBECCA VITULLO THORNALD & ROBECCA VITULLO ORACLE AZ RONALD & ROBECCA VITULLO THORNALD & ROBECCA VITULLO ORACLE AZ DAVID & ANN PALENSHUS THORNALD & THORNALD WAY ORACLE AZ JERRY & RATHLEEN MEYER THORNALD & THORNALD WAY ORACLE AZ JERRY & KATHLEEN MEYER THORNALD & THORNALD WAY ORACLE AZ RANDY & LISA FRIEDMAN THORNALD & THORNALD WAY ORACLE AZ SHEREE GILLASPIE THORNALD & THORNALD WAY ORACLE AZ STEPHEN MARADA THORNALD & THORNALD WAY ORACLE AZ STEPHEN MARADA THORNALD & THORNALD WAY ORACLE AZ SUSAN & DAVID MARX THORNALD & THORNALD WAY ORACLE AZ SUSAN & DAVID MARX THORNALD & THORNALD WAY ORACLE AZ RICHARD & DALEEN FITZGERALD THOMAS & ALICE HOGARTY P.O. BOX 155 BIG HORN WY	74105 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622
CAROL ENNIS GERRI JURGENSMEYER 30803 S CANYON VISTA WAY ORACLE AZ GERRI JURGENSMEYER 30803 S CANYON VISTA WAY ORACLE AZ CHERYL JANUZZI 1438 CEDAR STREET LAKE OSWEGO OR DAVID & ANN PALENSHUS 30822 S CANYON VISTA WAY ORACLE AZ JAMES LILLEY 30840 S CANYON VISTA WAY ORACLE AZ JERRY & KATHLEEN MEYER 30846 S CANYON VISTA WAY ORACLE AZ JERRY & KATHLEEN MEYER 30886 S CANYON VISTA WAY ORACLE AZ SHEREE GILLASPIE 16410 SUNTREE LANE SISTERS OR DAVID & KAREN JORDAN 30926 S CANYON VISTA WAY ORACLE AZ STEPPEN MARADA 30944 S CANYON VISTA WAY ORACLE AZ SUSAN & DAVID MARX 30962 S CANYON VISTA WAY ORACLE AZ SUSAN & DAVID MARX 30962 S CANYON VISTA WAY ORACLE AZ SUSAN & DAVID MARX 30962 S CANYON VISTA WAY ORACLE AZ SUSAN & DAVID MARX 30962 S CANYON VISTA WAY ORACLE AZ RICHARD & DALIEN FITZGERALD 30980 S CANYON VISTA WAY ORACLE AZ RICHARD & DALIEN FITZGERALD 30980 S CANYON VISTA WAY ORACLE AZ RICHARD & DALIEN FITZGERALD 30980 S CANYON VISTA WAY ORACLE AZ RICHARD & DALIEN FITZGERALD 30980 S CANYON VISTA WAY ORACLE AZ RICHARD & DALIEN FITZGERALD 30980 S CANYON VISTA WAY ORACLE AZ RICHARD & DALIEN FITZGERALD 30980 S CANYON VISTA WAY ORACLE AZ RICHARD & DALIEN FITZGERALD 30980 S CANYON VISTA WAY ORACLE AZ RICHARD & DALIEN FITZGERALD 30980 S CANYON VISTA WAY ORACLE AZ RICHARD & DALIEN FITZGERALD BROPERTY INVESTMENTS LLC BROPERTY INVESTM	74105 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622
CAROL ENNIS 30815 S CANYON VISTA WAY ORACLE AZ GERRI JURGENSMEYER 30803 S CANYON VISTA WAY ORACLE AZ RONALD & REBECCA VITULLO 30789 S CANYON VISTA WAY ORACLE AZ CHERYL JANUZZI 1438 CEDAR STREET LAKE OSWEGO OR DAVID & ANN PALENSHUS 30822 S CANYON VISTA WAY ORACLE AZ JAMES LILLEY 30840 S CANYON VISTA WAY ORACLE AZ JERRY & KATHLEEN MEYER 30866 S CANYON VISTA WAY ORACLE AZ SHEREE GILLASPIE 16410 SUNTREE LANE SISTERS OR DAVID & KAREN JORDAN 30982 S CANYON VISTA WAY ORACLE AZ SIUSAN & DAVID MARX 30944 S CANYON VISTA WAY ORACLE AZ SUSAN & DAVID MARX 30944 S CANYON VISTA WAY ORACLE AZ RICHARD & DALEEN FITZGERALD 30980 S CANYON VISTA WAY ORACLE AZ RICHARD & DALEEN FITZGERALD 30980 S CANYON VISTA WAY ORACLE AZ RICHARD & DALEEN FITZGERALD 5991 B ANGOLE DRIVE ORACLE AZ LIMB PROPERTY INVESTMENTS LLC	74105 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622
CAROL ENNIS 30815 S CANYON VISTA WAY ORACLE AZ GERRI JURGENSMEYER 30803 S CANYON VISTA WAY ORACLE AZ CHERYL JANUZZI ORACLE AZ DAWID & ANN PALENSHUS ORACLE AZ JAMES LILLEY ORACLE AZ SUBERRY & KATHLEEN MEYER ORACLE AZ SIEFRE GILLASPIE ORACLE AZ SIEFRE GILLASPIE ORACLE AZ SIEFRE GILLASPIE ORACLE AZ SIEFRE GILLASPIE ORACLE AZ STEPHEN MARADA ORACLE AZ STEPHEN MARADA ORACLE AZ SUSAN & DAVID MARX ORACLE AZ RICHARD & DALEEN FITZGERALD ORACLE AZ THOMAS & ALICE HOGARTY ORACLE AZ THOMAS & ALICE HOGARTY P.O. BOX 155 BIG HORN WY NORMAN & DEBORAH KERTH NANCY & WILLIAM ROGERS ORACLE AZ DEANA COLLINS	74105 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622
CAROL ENNIS 30815 S CANYON VISTA WAY ORACLE AZ GERRI JURGENSMEYER 30803 S CANYON VISTA WAY ORACLE AZ RONALD & REBECCA VITULIO 30789 S CANYON VISTA WAY ORACLE AZ CHERYL JANUZZI 1438 CEDAR STREET LAKE OSWEGO OR DAVID & ANN PALENSHUS 30822 S CANYON VISTA WAY ORACLE AZ JAMES LILLEY 30840 S CANYON VISTA WAY ORACLE AZ JERRY & KATHLEEN MEYER 30866 S CANYON VISTA WAY ORACLE AZ SHEREE GILLASPIE 16410 SUNTREE LANE SISTERS OR DAVID & KAREN JORDAN 30982 S CANYON VISTA WAY ORACLE AZ SIUSAN & DAVID MARX 30944 S CANYON VISTA WAY ORACLE AZ SUSAN & DAVID MARX 30962 S CANYON VISTA WAY ORACLE AZ RICHARD & DALEEN FITZGERALD 30980 S CANYON VISTA WAY ORACLE AZ RICHARD & DALEEN FITZGERALD 30980 S CANYON VISTA WAY ORACLE AZ LIMB PROPERTY INVESTMENTS LLC 59919 E ANKOLE DRIVE ORACLE AZ THOMAS & ALICE HOGARTY P.O. BOX 155 BIG HORN WY NORMAN & DE	74105 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622
CAROL ENNIS 30815 S CANYON VISTA WAY ORACLE AZ GERRI JURGENSMEYER 30803 S CANYON VISTA WAY ORACLE AZ CHERYL JANUZZI ORACLE AZ DAWID & ANN PALENSHUS ORACLE AZ JAMES LILLEY ORACLE AZ SUBERRY & KATHLEEN MEYER ORACLE AZ SIEFRE GILLASPIE ORACLE AZ SIEFRE GILLASPIE ORACLE AZ SIEFRE GILLASPIE ORACLE AZ SIEFRE GILLASPIE ORACLE AZ STEPHEN MARADA ORACLE AZ STEPHEN MARADA ORACLE AZ SUSAN & DAVID MARX ORACLE AZ RICHARD & DALEEN FITZGERALD ORACLE AZ THOMAS & ALICE HOGARTY ORACLE AZ THOMAS & ALICE HOGARTY P.O. BOX 155 BIG HORN WY NORMAN & DEBORAH KERTH NANCY & WILLIAM ROGERS ORACLE AZ DEANA COLLINS	74105 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622
CAROL ENNIS GERRI JURGENSMEYER 30803 S CANYON VISTA WAY ORACLE AZ GERRI JURGENSMEYER 30803 S CANYON VISTA WAY ORACLE AZ CHERYL JANUZZI 1438 CEDAR STREET LAKE OSWEGO OR DAVID & ANN PALENSHUS 30822 S CANYON VISTA WAY ORACLE AZ JERRY & KATHLEEN MEYER 30840 S CANYON VISTA WAY ORACLE AZ JERRY & KATHLEEN MEYER 30866 S CANYON VISTA WAY ORACLE AZ RANDY & LISA FRIEDMAN 30882 S CANYON VISTA WAY ORACLE AZ RANDY & LISA FRIEDMAN 30882 S CANYON VISTA WAY ORACLE AZ STEPHEN MARADA 30942 S CANYON VISTA WAY ORACLE AZ STEPHEN MARADA 30944 S CANYON VISTA WAY ORACLE AZ STEPHEN MARADA 30945 S CANYON VISTA WAY ORACLE AZ SUSAN & DAVID WAS ALICE FITTGERALD 30960 S CANYON VISTA WAY ORACLE AZ LIMB PROPERTY INVESTMENTS LLC 10919 E ANKOLE DRIVE ORACLE AZ LIMB PROPERTY INVESTMENTS LLC 10080 S CANYON VISTA WAY ORACLE AZ NORMAN & DEBORAH KERTH 31042 S CANYON VISTA WAY ORACLE AZ NORACLE AZ NORACLE AZ NORACLE AZ NORACLE AZ THOMAS & ALICE HOGARTY ORACLE AZ NORMAN & DEBORAH KERTH 31042 S CANYON VISTA WAY ORACLE AZ NORMAN & DEBORAH KERTH 31042 S CANYON VISTA WAY ORACLE AZ NORMAN & DEBORAH KERTH 31042 S CANYON VISTA WAY ORACLE AZ NORMAN & DEBORAH KERTH 31042 S CANYON VISTA WAY ORACLE AZ NORMAN & DEBORAH KERTH 31048 S CANYON VISTA WAY ORACLE AZ DEAN ACOLLINS 61531 E MARBLE DRIVE ORACLE AZ DAVID & SINDEE KRAUSE 61513 E MARBLE DRIVE ORACLE AZ DAVID & SINDEE KRAUSE	74105 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622
CAROL ENNIS 30815 S CANYON VISTA WAY ORACLE AZ GERRI JURGENSMEYER 30803 S CANYON VISTA WAY ORACLE AZ RONALD & REBECCA VITULLO 30789 S CANYON VISTA WAY ORACLE AZ CHERYL JANUZZI 1438 CEDAR STREET LAKE OSWEGO OR DAVID & ANN PALENSHUS 30822 S CANYON VISTA WAY ORACLE AZ JAMES LILLEY 30840 S CANYON VISTA WAY ORACLE AZ JERRY & KATHLEEN MEYER 30866 S CANYON VISTA WAY ORACLE AZ RANDY & LISA FRIEDMAN 30825 S CANYON VISTA WAY ORACLE AZ SHEREE GILLASPIE 16410 SUNTREE LANE SISTERS OR DAVID & KAREN JORDAN 30926 S CANYON VISTA WAY ORACLE AZ SUSAN & DAVID MARX 30942 S CANYON VISTA WAY ORACLE AZ SUSAN & DAVID MARX 30962 S CANYON VISTA WAY ORACLE AZ SUSAN & DAVID MARX 30962 S CANYON VISTA WAY ORACLE AZ RICHARD & DALEEN FITZGERALD 30980 S CANYON VISTA WAY ORACLE AZ LIMB PROPERTY INVESTMENTS LLC 5	74105 85622
CAROL ENNIS GERRI JURGENSMEYER 30803 S CANYON VISTA WAY ORACLE AZ GERRI JURGENSMEYER 30803 S CANYON VISTA WAY ORACLE AZ CHERYL JANUZZI 1438 CEDAR STREET LAKE OSWEGO OR DAVID & ANN PALENSHUS 30822 S CANYON VISTA WAY ORACLE AZ JERRY & KATHLEEN MEYER 30860 S CANYON VISTA WAY ORACLE AZ JERRY & KATHLEEN MEYER 30866 S CANYON VISTA WAY ORACLE AZ RANDY & LISA FRIEDMAN 30882 S CANYON VISTA WAY ORACLE AZ RANDY & LISA FRIEDMAN 30882 S CANYON VISTA WAY ORACLE AZ SHERE GILLASPIE 16410 SUNTREE LANE SISTERS OR DAVID & KAREN JORDAN 30944 S CANYON VISTA WAY ORACLE AZ STEPHEN MARADA 30944 S CANYON VISTA WAY ORACLE AZ SUSAN & DAVID MARY ORACLE AZ SUSAN & DAVID MARY ORACLE AZ LIMB PROPERTY INVESTMENTS LLC 159919 E ANKOLE DRIVE ORACLE AZ LIMB PROPERTY INVESTMENTS LLC 130382 S CANYON VISTA WAY ORACLE AZ NORACLE AZ NORACLE AZ NORACLE AZ THOMAS & ALICE HOGARTY ORACLE AZ NORACLE AZ NORACLE AZ NORACLE AZ NORACLE AZ NORACLE AZ THOMAS & ALICE HOGARTY ORACLE AZ NORACLE AZ NORA	74105 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622 85622

TIMOTHY CANNY & SHERRY BEHRENS	61397 E FLINT DRIVE	ORACLE	AZ	85623
TIMOTHY ONEILL & AUDREY KING	14295 W BARLOW COURT	BEAVERTON	OR	97008
MICHAEL & JANICE CLOSE	61377 E FLINT DRIVE	ORACLE	AZ	85623
KHASHAIAR CHAREPOO	430 CRYSTAL BEACH DRIVE	WINDSOR	CO	80550
JOHN & ROBIN DYCK	1502 MATHISON DRIVE	SANDPOINT	ID	83864
CAROL & RODNEY LINVILLE	61327 E FLINT DRIVE	ORACLE	AZ	85623
NANCY TAGGE	61311 E FLINT DRIVE	ORACLE	AZ	85623
CLAIRE LAWSON	61277 E FLINT DRIVE	ORACLE	AZ	85623
JAN WESTEMEIER	3127 NOR DEL HILL ROAD	VERONA	WI	53593
ZOELLNER LIV TRUST	61217 E FLINT DRIVE	ORACLE	AZ	85623
MARK & KATHLEEN BECKER	61203 E FLINT DRIVE	ORACLE	AZ	85623
KEEGAN & LINDA KRATOVIL	61189 E FLINT DRIVE	ORACLE	AZ	85623
RICHARD & SANDRA GETTER	61175 E FLINT DRIVE	ORACLE	AZ	85623
CHARLES FAIRBANKS	61161 E FLINT DRIVE	ORACLE	AZ	85623
TIMOTHY MIHORA	61147 E FLINT DRIVE	ORACLE	AZ	85623
RICHARD & CHRISTINE GONDOSCH	23158-500 FAIRWAY ROAD S	KITCHENER	ON	
BABAK CHAREPOO	P.O. BOX 5739	SCOTTSDALE	AZ	85261
LON & MARTHA FROHLING	61111 E FLINT DRIVE	ORACLE	AZ	85623
KENNETH & KATHY PETERSON	61097 E FLINT DRIVE	ORACLE	AZ	85623
SHELLEY GRUDIN	2468 NW CHAMPION CIRCLE	BEND	OR	97703
FRED & SYLVIA STAUDHAMMER	22504 REYNOLDS DRIVE	TORRANCE	CA	90505
GREG LOWE & JODI WALKER-LOWE	30834 S BLUE GRANITE LANE	ORACLE	AZ	85623
SANDRA SHERMAN & AUDREY KING	30994 S BLUE GRANITE LANE	ORACLE	AZ	85623
DIANA WALTON	30881 S OBSIDIAN DRIVE	ORACLE	AZ	85623
JOHN WYATT	30897 S OBSIDIAN DRIVE	ORACLE	AZ	85623
ROY & DEBRA SALISBURY	30913 S OBSIDIAN DRIVE	ORACLE	AZ	85623
JEFFREY & LISA COOPER	30935 S OBSIDIAN DRIVE	ORACLE	AZ	85623
CYNTHIA CARLSON	30949 S OBSIDIAN DRIVE	ORACLE	AZ	85623
LOUISE OSTROWSKI	30967 S OBSIDIAN DRIVE	ORACLE	AZ	85623
JOHN & MOLLIE HUNTER	30985 S OBSIDIAN DRIVE	ORACLE	AZ	85623
LANNEY ATCHLEY	31003 S OBSIDIAN DRIVE	ORACLE	AZ	85623
TIA & DAVID WILLSON	30880 S OBSIDIAN DRIVE	ORACLE	AZ	85623
MATTHEW & ARLENE FLEMING	4141 CRANFORD CIRCLE	SAN JOSE	CA	95124
WILLIAM & VICTORIA SCHLAUPITZ	30988 S OBSIDIAN DRIVE	ORACLE	AZ	85623
SHARON RINGSVEN	730 COORS STREET	LAKEWOOD	CO	80401
THOMAS & BARBARA WALLIS	30923 S BASALT DRIVE	ORACLE	AZ	85623
JEAN MCCOLMAN	30939 S BASALT DRIVE	ORACLE	AZ	85623
GREGORY & ELIZABETH WALKER	30953 S BASALT DRIVE	ORACLE	AZ	85623
LAURENE MARSHALL	30965 S BASALT DRIVE	ORACLE	AZ	85623
RANDALL & MICHELE STARK	30975 S BASALT DRIVE	ORACLE	AZ	85623
LARRY & SHELLIE BEAN	4916 KEOS WAY	OCEANSIDE	CA	92056
KAREN REED	31001 S BASALT DRIVE	ORACLE	AZ	85623
BRUCE & KAREN MUNDAHL	31013 S BASALT DRIVE	ORACLE	AZ	85623
CASSANDRA OLSON	31025 S BASALT DRIVE	ORACLE	AZ	85623
JAMES & CYNTHIA KILLACKEY	31039 S BASALT DRIVE	ORACLE	AZ	85623
GREGORY & ALICE KAUFFMAN	11470 N FASCINATION WAY	CROMWELL	IN	46732
PEGGY SPOTT	2699 NW HAVRE COURT	BEND	OR	97703
ROY WAIT & SUSAN HILCHEY	30990 S BASALT DRIVE	ORACLE	AZ	85623
MARK MOLINARO	30996 S BASALT DRIVE	ORACLE	AZ	85623
DOUGLAS WEST	1364 WATERS EDGE COURT	TERRE HAUTE	IN	47803
DONNA HOSHIDE	61370 E FLINT DRIVE	ORACLE	AZ	85623
STEPHEN & ILENE SKINNER	61352 E FLINT DRIVE	ORACLE	AZ	85623
DANN & KIM DENNY	61336 E FLINT DRIVE	ORACLE	AZ	85623
JOLENE ORMONDE	61320 E FLINT DRIVE	ORACLE	AZ	85623
JAMES & JANEL CLARK	12341 235TH PLACE NE	REDMOND	WA	98053
CHARLES & TRACY KNOEDLER	3414 183RD DRIVE NE	SNOHOMISH	WA	98290
CLAIRE DILLON	61272 E FLINT DRIVE	ORACLE	AZ	85623
GERALDINE DAWES	61260 E FLINT DRIVE	ORACLE	AZ	85623
SUE SCOTT	61248 E FLINT DRIVE	ORACLE	AZ	85623

V ADENI V ACCIDI	C1224 E EL DIT DDIVE	OD A CLE	A 77	05(22
KAREN KASSIN	61234 E FLINT DRIVE	ORACLE	AZ	85623
STEPHEN & NANCY FELBER	61222 E FLINT DRIVE	ORACLE	AZ	85623
JERRY WOMMACK & ROBIN HASEN	1572 CARRIAGE DRIVE	EATON	CO	80615
CAROL ROSE	61196 E FLINT DRIVE	ORACLE	AZ	85623
DONALD & NANCY RUSH	P.O. BOX 415	SCOBEY	MT	59263
SHARRON KOZMA	61150 E FLINT DRIVE	ORACLE	AZ	85623
RANDOLPH & CAROLYN CARR	5222 MAHNCKE ROAD SW	LONGBRANCH	WA	98351
ANTHONY PETERSEN	61128 E FLINT DRIVE	ORACLE	AZ	85623
JOHN & ELIZABETH MORRIS	61118 E FLINT DRIVE	ORACLE	AZ	85623
JAMES & SUZATTE AGUIRRE	61106 E FLINT DRIVE	ORACLE	AZ	85623
RUTH FJELLMAN	61092 E FLINT DRIVE	ORACLE	AZ	85623
BILL SHIPP & LINDA TEEL	340 W SAGUARO ARM TRAIL	ORO VALLEY	AZ	85623
RAYMOND & MADELYN LEAVITT	61068 E FLINT DRIVE	ORACLE	AZ	85623
DANIEL & CARLA MURPHY	20547 NE 37TH WAY	SAMMAMISH	WA	98074
CHRISTOPHER & NANCY RACIOPPO	61046 E FLINT DRIVE	ORACLE	AZ	85623
BERNARDUS & ADRIANA WENSINK	13500 N RANCHO VISTOSO BLVD APT. 157	ORO VALLEY	AZ	85755
DENNIS & LEIGH BRIELS	61347 E SHALE ROAD	ORACLE	AZ	85623
M MARKS			WA	98027
	600 NW LOCUST STREET APT. C-237	ISSAQUAH		
CARMEN GARROD	61315 E SHALE ROAD	ORACLE	AZ	85623
FRANCIS & NANCY BORCALLI	61299 E SHALE ROAD	ORACLE	AZ	85623
STEPHEN & CAMILLA MORK	61283 E SHALE ROAD	ORACLE	AZ	85623
JAMES & CHARLOTTE CARPENTER	61267 E SHALE ROAD	ORACLE	AZ	85623
ILENE SCOTT	61259 E SHALE ROAD	ORACLE	AZ	85623
DUANE & LINDA JENSEN	13478 YORK CREEK GROVE	COLORADO SPRINGS	CO	80921
JAMES & MARTI KUHR	61235 E SHALE ROAD	ORACLE	AZ	85623
DOROTHY & LAUREN MOORE	62556 E BORDER ROCK ROAD	SADDLEBROOKE	AZ	85739
JAMES & ROBERTA HARIPER	61209 E SHALE ROAD	ORACLE	AZ	85623
BONNIE WEBER	61193 E SHALE ROAD	ORACLE	AZ	85623
LUPE LOREDO & ALEJANDRO YBANEZ	61181 E SHALE ROAD	ORACLE	AZ	85623
PATRICIA SCULLY	61165 E SHALE ROAD	OARCLE	AZ	85623
CARMEN GEMME	61155 E SHALE ROAD	ORACLE	AZ	85623
ROBERT & NANCY WILLCOXON	514 AMERICAS WAY APT. 6234	BOX ELDER	SD	57719
TED & NINI FALCONER TED & NINI FALCONER	61113 E SHALE ROAD	ORACLE	AZ	85623
THOMAS & KELLY REUTER	31629 S SUMMERWIND DRIVE	ORACLE	AZ	85623
				85623
TIMOTHY LAWLER	61087 E SHALE ROAD	ORACLE	AZ	
PAMELA CREIGHTON	61073 E SHALE ROAD	ORACLE	AZ	85623
LAWRENCE & EDNA BREVING	61061 E SHALE ROAD	ORACLE	AZ	85623
DAVID GOBLE	61047 E SHALE ROAD	ORACLE	AZ	85623
DUANE & PAULA ROGGOW	61035 E SHALE ROAD	ORACLE	AZ	85623
TERRANCE & DORIS CARLIN	61021 E SHALE ROAD	ORACLE	AZ	85623
ROBERT & SHIRLEY SHELBY	60995 E SHALE ROAD	ORACLE	AZ	85623
BRUCE & NANCY CARLSON	60983 E SHALE ROAD	ORACLE	AZ	85623
MARY & WALTER YOUNG	61124 E SHALE ROAD	ORACLE	AZ	85623
MARY LOU TINNIN	61110 E SHALE ROAD	ORACLE	AZ	85623
JANIS O CONNOR	61102 E SHALE ROAD	ORACLE	AZ	85623
MICHAEL & JOAN MATUZEK	61090 E SHALE ROAD	ORACLE	AZ	85623
DENNIS BROOKS	601 E WATER STREET	FARMER CITY	IL	61842
LARRY LARSON	1815 N 9TH STREET	BISMARCK	ND	58501
MICHELL FRANKLIN	61052 E SHALE ROAD	ORACLE	AZ	85623
CALE & JEANNETTE CARSON	2393 VIA MARIPOSA W UNIT 3H	LAGUNA WOODS	CA	92637
LINDA ECKHARDT	61028 E SHALE ROAD	ORACLE	AZ	85623
JOHN & ANN GIOVENCO	61016 E SHALE ROAD	ORACLE	AZ	85623
SUSAN OELRICH	61002 E SHALE ROAD	ORACLE	AZ	85623
JAMES & KAREN HANDSCHY	60990 E SHALE ROAD	ORACLE	AZ	85623
BRUCE & LYDIA STRICKLAND	61113 E SLATE ROAD	ORACLE	AZ	85623
JEFFREY & MARY ANNE VONK	P.O. BOX 164	PIERRE	SD	57501
YUCEL & JERALD TAVOLARA	1158 SAINT ANDREWS COURT	ALGONQUIN	IL	60102
BRIDGET & WILLIAM ROBSON	15871 AGATE CREEK DRIVE	MONUMENT	CO	80132
MARILYN JANKOWSKI	59963 E HORNBILL PLACE	ORACLE	AZ	85623

JOHN & MELODY EDMONDSON	61035 E SLATE ROAD	ORACLE	AZ	85623
MELANIE LANGHOLZ	61021 E SLATE ROAD	ORACLE	AZ	85623
NEAL DRELL	61011 E SLATE ROAD	ORACLE	AZ	85623
KARYN WADSWORTH	60997 E SLATE ROAD	ORACLE	AZ	85623
DONALD BROTCHIE & KATHRYN RICHARD	60983 E SLATE ROAD	ORACLE	AZ	85623
CAROLYN LAETHEM & CARMEN QUINTERO	60971 E SLATE ROAD	ORACLE	AZ	85623
JOSEHPH & SHERRY BRINSTER	60959 E SLATE ROAD	ORACLE	AZ	85623
HARVEY & BONNIE GOLDMAN	61387 E ARBOR BASIN ROAD	ORACLE	AZ	85623
			AZ	
MICHEL & PEGGY TOMASO	61369 E ARBOR BASIN ROAD	ORACLE		85623
JOHN & GAYLE O CONNELL	61349 E ARBOR BASIN ROAD	ORACLE	AZ	85623
PATRICIA & PATRICK KELLY	61331 E ARBOR BASIN ROAD	ORACLE	AZ	85623
RONNIE & SUSAN MONSON	61313 E ARBOR BASIN ROAD	ORACLE	AZ	85623
GABOR & BEATA MOROCZ	61295 E ARBOR BASIN ROAD	ORACLE	AZ	85623
WILLIAM & BARBARA SANDERS	61255 E ARBOR BASIN ROAD	ORACLE	AZ	85623
GERARD & BRENDA MILLS	61235 E ARBOR BASIN ROAD	ORACLE	AZ	85623
EDWARD & JOYCE ARTMAN	61217 E ARBOR BASIN ROAD	ORACLE	AZ	85623
TERRANCE & ANITA ZIMMERMAN	61199 E ARBOR BASIN ROAD	ORACLE	AZ	85623
SHERRIE HAWK	225 LAWRENCE BLVD W UNIT 303	WABASHA	MN	55981
DONNA HILL	61159 E ARBOR BASIN ROAD	ORACLE	AZ	85623
ROGER & WANDA BAILEY	61141 E ARBOR BASIN ROAD	ORACLE	AZ AZ	85623
GORDON TAGGE	61123 E ARBOR BASIN ROAD	ORACLE	AZ	85623
SOLOMON & CAROL GINSBERG	60088 E PEPPERTREE LANE	ORACLE	AZ	85623
TIMOTHY & DIANE BRATZ	61376 E ARBOR BASIN ROAD	ORACLE	AZ	85623
DANIEL & JOANNE FOSTER	61358 E ARBOR BASIN ROAD	ORACLE	AZ	85623
MARLENE DISKIN & PETER BRATZ	61336 E ARBOR BASIN ROAD	ORACLE	AZ	85623
MARK SHIREY	61316 E ARBOR BASIN ROAD	ORACLE	AZ	85623
THOMAS & MARILYN GRAHAM	61294 E ARBOR BASIN ROAD	ORACLE	AZ	85623
STEPHEN & CHARLOTTE RECORDS	61254 E ARBOR BASIN ROAD	ORACLE	AZ	85623
JOHN & JEANNE SADLIK	61236 E ARBOR BASIN ROAD	ORACLE	AZ	85623
DONALD & JACQUELYN HENDRICKS	31299 S GRANITE DRIVE	ORACLE	AZ	85623
KAREN CAIN	31281 S GRANITE DRIVE	ORACLE	AZ	85623
LAWRENCE & KIM SCHWEITZER	61162 E ARBOR BASIN ROAD	ORACLE	AZ	85623
JAMES & CORINNE MANSMITH	61138 E ARBOR BASIN ROAD	ORACLE	AZ	85623
HENRY MOZOLEWSKI & MARIANNA ROSZKOWSKA	31269 S CANYON VISTA WAY	ORACLE	AZ	85623
DAVID & FRANCES JENKINS	795 VICTORIA FALLS DRIVE	REDMOND	OR	97756
NANCY WALTERS & BARBARA ARMSTRONG	1270 RIM OF THE REDWOODS ROAD	SEBASTOPOL	CA	95472
ALAN & SUSAN NESS	61369 E HAPPY JACK TRAIL	ORACLE	AZ	85623
DIANNE BRADLEY & JEFFREY HARBERT	61347 E HAPPY JACK TRAIL	ORACLE	AZ	85623
ROBERT & ANN VESSELLA	5612 128TH STREET SW	MUKILTEO	WA	98275
THEODORE & GAIL BARTH	61309 E HAPPY JACK TRAIL	ORACLE	AZ	85623
WILLIAM & LEONTINE HINES	61291 E HAPPY JACK TRAIL	ORACLE	AZ	85623
DAVID & SYLVIA HARMON	61249 E HAPPY JACK TRAIL	ORACLE	AZ	85623
RONALD COONS	61229 E HAPPY JACK TRAIL	ORACLE	AZ	85623
RONALD & MONICA GUSTAFSON	31261 S GRANITE DRIVE	ORACLE	AZ AZ	85623
WAYNE & CYNTHIA WATKINS	31178 S HIDOGO DRIVE	ORACLE	AZ	85623
RONALD & NANCY HILBERT	61420 E HAPPY JACK TRIAL	ORACLE	AZ	85623
JAY & GALE HALL	61402 E HAPPY JACK TRAIL	ORACLE	AZ	85623
QUAITE & JUDY DODSON	61388 E HAPPY JACK TRAIL	ORACLE	AZ	85623
DONALD & DEBORAH LARSON	61370 E HAPPY JACK TRAIL	ORACLE	AZ	85623
WILLIAM STONE	1141 AMBROSE DRIVE	MANTECA	CA	95336
MICHAEL & ANTONIA MCDOLE	61338 E HAPPY JACK TRAIL	ORACLE	AZ	85623
CHERYL BUCK	61322 E HAPPY JACK TRAIL	ORACLE	AZ	85623
KEVIN & RAENETTE CARLE	61306 E HAPPY JACK TRAIL	ORACLE	AZ	85623
NICHOLAS & LINDA NEWTON	61288 E HAPPY JACK TRAIL	ORACLE	AZ	85623
MARK & PATTI LEWIS	61250 E HAPPY JACK TRAIL	ORACLE	AZ	85623
	61234 E HAPPY JACK TRAIL	ORACLE	AZ AZ	85623
KENNETH & CHERIE ZIEMS				
MARIA & ROBERT BROWN	61216 E HAPPY JACK TRAIL	ORACLE	AZ	85623
RONALD & BEVERLY MCGLOTHIN	61202 E HAPPY JACK TRAIL	ORACLE	AZ	85623
KENNETH POMPA	61184 E HAPPY JACK TRAIL	ORACLE	AZ	85623

KARL & ALICIA JUNGELAUS	31258 S GRANITE DRIVE	ORACLE	AZ	85623
DAVID & CHARLENE GOODKNIGHT	8523 E KAEL STREET	MESA	AZ	85207
JIM & KELLY MOSS	P.O. BOX 2536	GLOBE	AZ	85502
KENNETH & CYNTHIA FILIPPINI	60740 E PERSIAN DRIVE	ORACLE	AZ	85623
SADDLEBROOKE RANCH HOMEOWNERS ASSOCIATION	9352 E RIGGS ROAD	SUN LAKES	AZ	85248
KENNETH & SHIRLEY MURRAY	61072 E ARBOR BASIN ROAD	ORACLE	AZ	85623
STEVEN & PAULA CARTWRIGHT	61056 E ARBOR BASIN ROAD	ORACLE	AZ	85623
RICHARD & HEIDE PATTERSON	61038 E ARBOR BASIN ROAD	ORACLE	AZ	85623
JAMES & MARY HEYWOOD	61022 E ARBOR BASIN ROAD	ORACLE	AZ	85623
MICHAEL & DIANE MCFAIN	61004 E ARBOR BASIN ROAD	ORACLE	AZ	85623
STANLEY & JULIE GENTZLER	60988 E ARBOR BASIN ROAD	ORACLE	AZ	85623
RANDALL & CHARLOTTE GRAHAM	60972 E ARBOR BASIN ROAD	ORACLE	AZ	85623
CARL & SUSAN PRATT	60954 E ARBOR BASIN ROAD	ORACLE	AZ	85623
PETER & ATISSA CAMPBELL	60942 E ARBOR BASIN ROAD	ORACLE	AZ	85623
JAMES & DEBBY FLETCHER	60922 E ARBOR BASIN ROAD	ORACLE	AZ	85623
RALPH & PAMELA RICHARDS	60904 E ARBOR BASIN ROAD	ORACLE	AZ	85623
JAMES & JACKIE FOLEY	60890 E ARBOR BASIN ROAD	ORACLE	AZ	85623
			AZ	
KIM PEDERSON	60872 E ARBOR BASIN ROAD	ORACLE		85623
MICHAEL & CONNIE HANEY	61053 E ARBOR BASIN ROAD	ORACLE	AZ	85623
DONALD MARSJANIK	61035 E ARBOR BASIN ROAD	ORACLE	AZ	85623
FRANK & RUTH MOORE	61017 E ARBOR BASIN ROAD	ORACLE	AZ	85623
DOUGLAS & MARY BALZER	61003 E ARBOR BASIN ROAD	ORACLE	AZ	85623
MATHEW & PATRICIA RIPPY	60961 E ARBOR BASIN ROAD	ORACLE	AZ	85623
MARK & LISA PROSE	60955 E ARBOR BASIN ROAD	ORACLE	AZ	85623
RICHARD & PAULA ROGERS	60951 E ARBOR BASIN ROAD	ORACLE	AZ	85623
MICHAEL & LORETTA GRESHAM	60945 E ARBOR BASIN ROAD	ORACLE	AZ	85623
DOUGLAS & MELANIE SEDAM	61082 E ANGORA PLACE	ORACLE	AZ	85623
KENNETH & BARBARA DE LEO	61068 E ANGORA PLACE	ORACLE	AZ	85623
TERRY & DIANA WALTON	61048 E ANGORA PLACE	ORACLE	AZ	85623
CHARLES & MARY ANDERSON	61028 E ANGORA PLACE	ORACLE	AZ	85623
MICHAEL & JEAN BOSKY	60998 E ANGORA PLACE	ORACLE	AZ	85623
JANETTE & STEVE BATTEN	60972 E ANGORA PLACE	ORACLE	AZ	85623
JOHN & LORRAINE SMITH	60944 E ANGORA PLACE	ORACLE	AZ	85623
LONNIE & JULIE PEDERSON	60914 E ANGORA PLACE	ORACLE	AZ	85623
RONALD & LYNNE WYSOCKY	60892 E ANGORA PLACE	ORACLE	AZ	85623
WILLIAM & ANTOINETTE ESTRADA	31518 S MISTY BASIN ROAD	ORACLE	AZ	85623
LARRY & MARNIE BINNEY	31544 S MISTY BASIN ROAD	ORACLE	AZ	85623
JAMES & THYRA HARTMAN	31588 S MISTY BASIN ROAD	ORACLE	AZ	85623
LANCE & CHERYL FARRIER	61059 E ANGORA PLACE	ORACLE	AZ	85623
JAMES & MARLENE HARDISON	61045 E ANGORA PLACE	ORACLE	AZ	85623
DALE & DEBBIE SORENSEN	61027 E ANGORA PLACE	ORACLE	AZ	85623
JOSEPH & ANN MARIE CAMILLUCCI	60993 E ANGORA PLACE	ORACLE	AZ	85623
BETH MEYERS & KATHLEEN VANDERPOOL	60973 E ANGORA PLACE	ORACLE	AZ	85623
JOEL & SHARON PASSOV	60955 E ANGORA PLACE	ORACLE	AZ	85623
THOMAS & JANICE HYNES	60933 E ANGORA PLACE	ORACLE	AZ	85623
CLIFFORD TERRY	31547 S MISTY BASIN ROAD	ORACLE	AZ	85623
JOHN BEALS	31563 S MISTY BASIN ROAD	ORACLE	AZ	85623
		ORACLE		
RAYMOND & NORMA WEISZ	31579 S MISTY BASIN ROAD		AZ	85623
GARY & KATHLEEN KUHN	31593 S MISTY BASIN ROAD	ORACLE	AZ	85623
MICHAEL & TERRI MOVIUS	61084 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
WALTER & DARIAN PASTERSKI	61060 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
BILLY & MARGARET SHULTZ	61020 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
JAMES & MAUREEN BOTZ	61000 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
NANCY & JOHN SHAUGHNESSY	60982 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
PATRICIA HALE	60960 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
PHILIP & MONIKA BARTKO	60940 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
TIMOTHY & ELIZABETH CHAMBERLIN	60922 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
DONALD & JANET CRAWFORD			WA	
	233 3RD AVENUE N APT. 4	EDMONDS		98020
WILLIAM & GINGER BUETOW	61063 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623

JOHN & JUDITH TEDESCHI	61039 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
FREDERICK & FELICITAS AYLSTOCK	61021 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
THE REDDINGTON TRUST	60997 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
GARY & ETHEL LUCE	60971 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
WILLIAM & MINDY HAWK	60947 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
B & J SCOTT	8600 NW LAKESHORE AVENUE	VANCOUVER	WA	98665
RONNIE & CYNTHIA NUNN	60907 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
ELIZABETH & JUDITH KEEFER	60885 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
DAVID & TERI ARNOLD	31723 S FLAT ROCK DRIVE	ORACLE	AZ	85623
DANA & SHARI REDDINGTON	61082 E AMUR LANE	ORACLE	AZ	85623
KENNETH & CATHERINE LOBO	61050 E AMUR LANE	ORACLE	AZ	85623
ANDREW & MARINA WADDELL	61034 E AMUR LANE	ORACLE	AZ	85623
HAROLD & HUGO KIRMAN	61020 E AMUR LANE	ORACLE	AZ	85623
KURT & VICKI WARNING	31747 S FLAT ROCK DRIVE	ORACLE	AZ	85623
MICHAEL & CHERYL STROBEN	31763 S FLAT ROCK DRIVE	ORACLE	AZ	85623
ROBERT & JODY PORTER	61081 E AMUR LANE	ORACLE	AZ	85623
ROBERT & PAMELA HORWITT	61057 E AMUR LANE	ORACLE	AZ	85623
ROBERT & SUE DILTS	61029 E AMUR LANE	ORACLE	AZ	85623
DIANE VERKUYLEN-MURPHY & JOHN MURPHY	3047 OLD CREEK ROAD	MIDDLETON	WI	53562
WILLIAM & SANDRA GURECK	31817 S FLAT ROCK DRIVE	ORACLE	AZ	85623
DEL & INGRID ANDREWS		ORACLE	AZ AZ	85623
	31799 S FLAT ROCK DRIVE			
LINDA WAICIS	60961 E AMUR LANE	ORACLE	AZ	85623
BARRY & MARY MILNER	60947 E AMUR LANE	ORACLE	AZ	85623
KEITH & SUSAN DRENGLER	60935 E AMUR LANE	ORACLE	AZ	85623
CONSTANCE CALDERON	31874 S FLAT ROCK DRIVE	ORACLE	AZ	85623
DAVID & JILL STARK	31904 S FLAT ROCK DRIVE	ORACLE	AZ	85623
DANIEL & MAUREEN MURPHY	31924 S FLAT ROCK DRIVE	ORACLE	AZ	85623
DAVID & JEANNE HUNTER	31948 S FLAT ROCK DRIVE	ORACLE	AZ	85623
MATTHEW & NOELLE RUSSOW	60974 E SAGE DRIVE	ORACLE	AZ	85623
MICHAEL & DONNA VINKS	401 E 8TH STREET APT. 214-917	SIOUX FALLS	SD	57103
KYLE & SUZANNE DUDLEY	31963 S LONE VISTA WAY	ORACLE	AZ	85623
GREGORY & CONSTANCE ELLIOT	31933 S LONE VISTA WAY	ORACLE	AZ	85623
RICHARD & ELLEN MILLET	31913 S LONE VISTA WAY	ORACLE	AZ	85623
RICHARD & SANDRA LANDIS	31891 S LONE VISTA WAY	ORACLE	AZ	85623
JAMES & JACKIE FOLEY	31865 S FLAT ROCK DRIVE	ORACLE	AZ	85623
THEODORE ROUPAS	31883 S FLAT ROCK DRIVE	ORACLE	AZ	85623
JAMES & MARILYN SULLIVAN	31901 S FLAT ROCK DRIVE	ORACLE	AZ	85623
MICHAEL SZYMANSKI	31919 S FLAT ROCK DRIVE	ORACLE	AZ	85623
JOHN & WENDY PRUIETT	16137 NW CANTERWOOD WAY	PORTLAND	OR	97229
MERL & DEBORAH FELZIEN	31957 S FLAT ROCK DRIVE	ORACLE	AZ	85623
ELMER & KAREN KLAVETTER	31977 S FLAT ROCK DRIVE	ORACLE	AZ	85623
MICHAEL & MARLA DARCH	31995 S FLAT ROCK DRIVE	ORACLE	AZ	85623
KEVIN & GLORIA SCHICK	32027 S FLAT ROCK DRIVE	ORACLE	AZ	85623
JAMES & KENDRA POSER	32039 S FLAT ROCK DRIVE	ORACLE	AZ	85623
CRAIG & SUSAN BAUER	32053 S FLAT ROCK DRIVE	ORACLE	AZ	85623
DAVID & FRANKE NORMANDIE	32065 S FLAT ROCK DRIVE	ORACLE	AZ	85623
LAWRENCE & SUSAN STULTS	414 239TH AVENUE NE	SNOHOMISH	WA	98290
PATRICK MULCAHY & KARLA GOMEZ-MEYER	32078 S FLAT ROCK DRIVE	ORACLE	AZ	85623
CHARLES & SUSAN KNIGHT	32064 S FLAT ROCK DRIVE	ORACLE	AZ	85623
EDWARD & JEAN CHESZEK	32036 S FLAT ROCK DRIVE	ORACLE	AZ	85623
EDWARD & GRACE EHRMAN	61017 E SAGE DRIVE	ORACLE	AZ	85623
DAVID & JEANNE HANSEL	31972 S LONE VISTA WAY	ORACLE	AZ	85623
THOMAS & BARBARA LAMBRECHT	31956 S LONE VISTA WAY	ORACLE	AZ	85623
MICHAEL & MARLYCE MYCKA	31936 S LONE VISTA WAY	ORACLE	AZ	85623
FRANK LANNING	31916 S LONE VISTA WAY	ORACLE	AZ	85623
LARRY & DONNA NEIBCH		ORACLE	AZ AZ	85623
	31892 S LONE VISTA WAY			
BRIAN & GAYLE BROGIE	31862 S LONE VISTA WAY	ORACLE	AZ	85623
RAYMOND & GRETCHEN MALASKI	31840 S LONE VISTA WAY	ORACLE	AZ	85623
DONALD PRASEK	60922 E AMUR LANE	ORACLE	AZ	85623

MARY ECKERT	COOSE AMID LANE	ORACLE	AZ	95622
	60936 E AMUR LANE			85623
JOHN & JOHANNA NEWMAN	60956 E AMUR LANE	ORACLE	AZ	85623
JOHN CLAYBURG & ELISABETH LARSEN	31728 S FLAT ROCK DRIVE	ORACLE	AZ	85623
ELEANOR STRANDBERG	31712 S FLAT ROCK DRIVE	ORACLE	AZ	85623
DENNIS & KAREN MCOMBER	31698 S FLAT ROCK DRIVE	ORACLE	AZ	85623
BRUCE & ELIZABETH SIMONSEN	3540 FELTON TERRACE	PLEASANTON	CA	94566
DANIEL & CHARLENE CULVER	31664 S FLAT ROCK DRIVE	ORACLE	AZ	85623
ANDREW & TIFFANY MCGEHEE	2212 QUEEN ANNE AVENUE N #257	SEATTLE	WA	98109
LORENZETTI LIVING TRUST	31634 S FLAT ROCK DRIVE	ORACLE	AZ	85623
KIM & JOYCE LUCKMAN	31618 S FLAT ROCK DRIVE	ORACLE	AZ	85623
THOMAS & NANCY HURLBURT	31596 S FLAT ROCK DRIVE	ORACLE	AZ	85623
DENNIS & DONNA JOANNIDES	31578 S FLAT ROCK DRIVE	ORACLE	AZ	85623
ROBERT & PAMELA WAMPLE	31562 S FLAT ROCK DRIVE	ORACLE	AZ	85623
WILLIAM & CHRISTEL BURCH	59872 E JACARANDA PLACE	ORACLE	AZ	85623
RICHARD & SANDRA INGLEFIELD	1175 NEWSTAR WAY APT. 420	GOLDEN	CO	80403
MIRIAM BROCK	59844 E JACARANDA PLACE	ORACLE	AZ	85623
TERRI PATTON	59830 E JACARANDA PLACE	ORACLE	AZ	85623
MARC & DEBRA ARGABRIGHT	59816 E JACARANDA PLACE	ORACLE	AZ	
				85623
CORRINE GLESNE	59802 E JACARANDA PLACE	ORACLE	AZ	85623
CAROL BURNETT	59788 E JACARANDA PLACE	ORACLE	AZ	85623
LESLIE COOKE	59764 E JACARANDA PLACE	ORACLE	AZ	85623
MARK & HARGETT JOHNSON	59732 E JACARANDA PLACE	ORACLE	AZ	85623
DAISY SECHRIST	31266 S NECTAR LANE	ORACLE	AZ	85623
CHRISTOPHER & SHARON ORLANDO	31284 S NECTAR LANE	ORACLE	AZ	85623
SCOTT & MARI SENDEN	31300 S NECTAR LANE	ORACLE	AZ	85623
RICHARD & DEBORAH PENNINGTON	31320 S NECTAR LANE	ORACLE	AZ	85623
WILLIAM & ANNE BUDO	31336 S NECTAR LANE	ORACLE	AZ	85623
MARY CAHILL	31358 S NECTAR LANE	ORACLE	AZ	85623
TIMOTHY & DEBORAH BOWEN	31372 S NECTAR LANE	ORACLE	AZ	85623
DAVID & PATRICIA FRESTEDT	31390 S NECTAR LANE	ORACLE	AZ	85623
SHEILAH BRITTON	31420 S NECTAR LANE	ORACLE	AZ	85623
THOMAS & SANDRA GOODWIN	31430 S NECTAR LANE	ORACLE	AZ	85623
STEVEN & CHERYL MARGOLIS	59821 E PINYON DRIVE	ORACLE	AZ	85623
MICHAEL & DEBORAH TREACY	59835 E PINYON DRIVE	ORACLE	AZ	85623
		VAIL	CO	81657
RICHARD & MARGARET ROGERS	799 POTATO PATCH DRIVE UNIT B			
KATHLEEN MARTIN	59859 E PINYON DRIVE	ORACLE	AZ	85623
MICHAEL & JOY CAFFERTY	59871 E PINYON DRIVE	ORACLE	AZ	85623
TERRY & JACQUELINE BEEM	59883 E PINYON DRIVE	ORACLE	AZ	85623
EDWARD & FRANCES HARRINGTON	59891 E PINYON DRIVE	ORACLE	AZ	85623
BRIAN & SHERI STARK	59903 E PINYON DRIVE	ORACLE	AZ	85623
DAVID & DENISE JOYCE	59949 E WREN CIRCLE	ORACLE	AZ	85623
PAUL & CAREN LAPOTOSKY	59969 E WREN CIRCLE	ORACLE	AZ	85623
ANDREW & REGINA RACUCH	59987 E WREN CIRCLE	ORACLE	AZ	85623
MARK & MARY LEIFER	59991 E WREN CIRCLE	ORACLE	AZ	85623
ROBERT & LORETTA PAGE	59992 E WREN CIRCLE	ORACLE	AZ	85623
JOHN DAYTON	59988 E WREN CIRCLE	ORACLE	AZ	85623
DAVID & LINDA DAUBERS	59968 E WREN CIRCLE	ORACLE	AZ	85623
RICHARD ANDERSON	59946 E WREN CIRCLE	ORACLE	AZ	85623
MICHAEL & INGRID MCMANUS	31255 S ZINNA ORACLE	ORACLE	AZ	85623
MICHAEL & HOURD MICHAELOS CLAIRE & KATHERINE MCARTHUR	3971 COLE AVENUE	DALLAS	TX	75204
FREDERICK & KATRINA HORSTMAN	31221 S ZINNA	ORACLE	AZ	85623
JAMES & CYNTHIA HAMMONDS	31201 S ZINNA 31201 S ZINNA TRAIL	ORACLE	AZ AZ	85623 85623
PHYLIP & KAREN PELTIER	59829 E JACARANDA PLACE	ORACLE	AZ	85623
JAMES & LENORE KOLHOFF	11368 OREGON CIRCLE	FENTON	MI	48430
JOSEPH & DONNA GLAS	59797 E JACARANDA PLACE	ORACLE	AZ	85623
KEITH & LAURA GILCHRIST	59771 E JACARANDA PLACE	ORACLE	AZ	85623
JOHN & MONICA OSZUST	60233 E ANKOLE DRIVE	ORACLE	AZ	85623
EDWARD & DONNA BIRCH	59876 E JUNIPER ROAD	ORACLE	AZ	85623
JACQUELINE ELPHIC	59862 E JUNIPER ROAD	ORACLE	AZ	85623

TIMOTHY & KENNEDY SCHAAL	59844 E JUNIPER ROAD	ORACLE	AZ	85623
BRIAN & PAULA JOHNSON	59830 E JUNIPER ROAD	ORACLE	AZ	85623
MICHELE & TEASDALE MADGAR	59812 E JUNIPER ROAD	ORACLE	AZ	85623
JAMES & KATHLEEN DYER	59786 E JUNIPER ROAD	ORACLE	AZ	85623
MORLIN & KELLY HASTINGS	59764 E JUNIPER ROAD	ORACLE	AZ	85623
FRANK & NANCY HUGUS	59875 E JUNIPER ROAD	ORACLE	AZ	85623
DAVID & KARIN SMITH	59855 E JUNIPER ROAD	ORACLE	AZ	85623
FREDERICK MAKI	59841 E JUNIPER ROAD	ORACLE	AZ	85623
EDWARD & LIZABETH WATSON	59827 E JUNIPER ROAD	ORACLE	AZ	85623
BENEDICT GENTILE	59811 E JUNIPER ROAD	ORACLE	AZ	85623
GRACE THOMPSON	59799 E JUNIPER ROAD	ORACLE	AZ	85623
TIMOTHY & PATRICIA BAKER	59785 E JUNIPER ROAD	ORACLE	AZ	85623
DAVID LANDRY	59767 E JUNIPER ROAD	ORACLE	AZ	85623
STEVEN & FRANCES AGGERS	5884 BROMBOROUGH DRIVE	WINDSOR	CO	80550
DAVID GRUCA & NANCY RICHMOND-GRUCA	59920 E PINYON DRIVE	ORACLE	AZ	85623
JEFFREY & JUDY SMITH	59894 E PINYON DRIVE	ORACLE	AZ	85623
ALEXANDER & NELDA LANGOUSSIS	59870 E PINYON DRIVE	ORACLE	AZ	85623
DOUGLAS & AILEEN WATERS	59852 E PINYON DRIVE	ORACLE	AZ	85623
SCOTT & AMY BELFORD TIMOTHY & CLENIDA DESH	59838 E PINYON DRIVE	ORACLE ELV CROVE	AZ	85623
TIMOTHY & GLENDA RESH	9333 EDENSBURY COURT	ELK GROVE	CA	95758
EDWARD GEORGE & DONNA SWINDELL	59814 E PINYON DRIVE	ORACLE	AZ	85623
COOK REVOCABLE TRUST	59800 E PINYON DRIVE	ORACLE	AZ	85623
STEPHEN & SUSAN IRONS	31580 S HACKBERRY LANE	ORACLE	AZ	85623
DONNELL LOCKWOOD	31594 S HACKBERRY LANE	ORACLE	AZ	85623
MARK & KATHLEEN HANSON	238 SAINT STREET	RICHLAND	WA	99354
GARY & SALLY GRASSO	31622 S HACKBERRY LANE	ORACLE	AZ	85623
JOHN & BARBARA NICOLICH	31630 S HACKBERRY LANE	ORACLE	AZ	85623
WAYNE STAFFORD	P.O. BOX 680466	PARK CITY	UT	84068
MICHAEL & SUSANE MAGIC	31658 S HACKBERRY LANE	ORACLE	AZ	85623
ROBERT & SANDRA RIZK	31672 S HACKBERRY LANE	ORACLE	AZ	85623
WILLA & JOYCE WATT	59716 E HERON DRIVE	ORACLE	AZ	85623
CHARLES & RONDA CONGDON	59686 E HERON DRIVE	ORACLE	AZ	85623
RAYMOND & AMY DONALDSON	59656 E HERON DRIVE	ORACLE	AZ	85623
BURSON FAMILY TRUST	59632 E HERON DRIVE	ORACLE	AZ	85623
STEVEN GOSSARD	31593 S HACKBERRY LANE	ORACLE	AZ	85623
CORBIN & ERIN NEWMAN	31633 S HACKBERRY LANE	ORACLE	AZ	85623
DAVID & DEBRA VANTASSEL	2729 CUMULUS DRIVE	ESTES PARK	СО	80517
KENNETH & KAREN CARDER	59804 E HERON DRIVE	ORACLE	AZ	85623
JOHN & DAWN GETTMAN	59792 E HERON DRIVE	ORACLE	AZ	85623
CHERYL PARR	59780 E HERON DRIVE	ORACLE	AZ	85623
CARL NELSON	59766 E HERON DRIVE	ORACLE	AZ	85623
ROBERT & KAY GRADY	59760 E HERON DRIVE	ORACLE	AZ	85623
CHRISTOPHER & LISA COKER	59803 E HERON DRIVE	ORACLE	AZ	85623
NELSON & KAREN NELSON	59787 E HERON DRIVE	ORACLE	AZ	85623
RUSSELL & CAROL SACKS	59773 E HERON DRIVE	ORACLE	AZ	85623
VINCENT & SUZANNE LANUZA	59755 E HERON DRIVE	ORACLE	AZ	85623
CHARLES & EILEEN SEELYE	59745 E HERON DRIVE	ORACLE	AZ	85623
THOMAS & MARGARET RIDOLFO	59725 E HERON DRIVE	ORACLE	AZ	85623
ROBERT & GAIL JAMIN	59709 E HERON DRIVE	ORACLE	AZ	85623
NANCY EISENSTEIN	59687 E HERON DRIVE	ORACLE	AZ	85623
EDWARD & JACQUELINE BOLL	59671 E HERON DRIVE	ORACLE	AZ	85623
THOMAS SOMENSKE & MARGARET OTOOLE-SOMENSKE	59657 E HERON DRIVE	ORACLE	AZ	85623
MICHAEL & JACKIE WINTER	59635 E HERON DRIVE	ORACLE	AZ	85623
KATHRYN ADIS	59619 E HERON DRIVE	ORACLE	AZ	85623
		ORACLE	AZ AZ	85623 85623
CHARLES & ANNETTE JANSSEN	59857 E HERON DRIVE			
JOSEPH & MARY TOMASELLO	59879 E HERON DRIVE	ORACLE	AZ	85623
JOHN SOARES & TINA HENDRIX	59907 E HERON DRIVE	ORACLE	AZ	85623
JAMES & KATHLEEN RODINE	59923 E HERON DRIVE	ORACLE	AZ	85623
CHARLES & JULIE PEEK	59943 E HERON DRIVE	ORACLE	AZ	85623

KENNETH & DARLENE WILCOX	59957 E HERON DRIVE	ORACLE	AZ	85623
THOMAS & KATHLEEN FIRST	59973 E HERON DRIVE	ORACLE	AZ	85623
KENNETH & LANA MOORE	31496 S TAMARISK PLACE	ORACLE	AZ	85623
JOHN & EILEEN LANGHOLFF	31502 S TAMARISK PLACE	ORACLE	AZ	85623
KAREN DRAPER	31508 S TAMARISK PLACE	ORACLE	AZ	85623
DONNA LURA	31514 S TAMARISK PLACE	ORACLE	AZ	85623
MARK & BETTY SEBERGER	60161 E BLUE PALM DRIVE	ORACLE	AZ	85623
RICHARD & TERESA BEACH	60167 E BLUE PALM DRIVE	ORACLE	AZ	85623
THERESA WELSH	60171 E BLUE PALM DRIVE	ORACLE	AZ	85623
LLOYD & PATRICIA DEMARTINI	31435 S TURQUOISE LANE	ORACLE	AZ	85623
PAUL & TRIEBESS PICCHIOTTINO	31421 S TURQUOISE LANE	ORACLE	AZ	85623
ROGER & MARSHA LINDEKEN	31401 S TURQUOISE LANE	ORACLE	AZ	85623
ANTHONY & JUDY PETCHAR	31377 S TURQUOISE LANE	ORACLE	AZ	85623
TODD & JACQUELINE LAUER	31359 S TURQUOISE LANE	ORACLE	AZ	85623
JOHN & CAROLYN KANE	60142 E HERON DRIVE	ORACLE	AZ	85623
STEVEN & CONSTANCE IRWIN	60130 E HERON DRIVE	ORACLE	AZ	85623
BRIAN & JUDY GILMORE	60118 E HERON DRIVE	ORACLE	AZ	85623
VIDA KACZMAREK	60104 E HERON DRIVE	ORACLE	AZ	85623
DAVID & GAYLE RICHEY	60088 E HERON DRIVE	ORACLE	AZ	85623
DAVID & GATEE RICHET DAVID & SHARON STEEN	60074 E HERON DRIVE	ORACLE	AZ	85623
JOHN JOHANNES & PEGGY YASUKOCHI	60060 E HERON DRIVE	ORACLE	AZ	85623
RONALD & MARILYN ERDEI	60048 E HERON DRIVE	ORACLE	AZ	85623
MICHAEL & BETTY STANIEC	60034 E HERON DRIVE	ORACLE	AZ	85623
JAYSON & SUZY CLAAR	60020 E HERON DRIVE	ORACLE	AZ	85623
WILLIAM & ANA HUFFMAN	59996 E HERON DRIVE	ORACLE	AZ	85623
JOEL & NANCY OLSEN	59962 E HERON DRIVE	ORACLE	AZ	85623
GORDON & MARGARET MORO	59938 E HERON DRIVE	ORACLE	AZ	85623
JOHN HALBIG & ANN HULETT	59922 E HERON DRIVE	ORACLE	AZ	85623
JACK & MELINDA FINCHAM	59904 E HERON DRIVE	ORACLE	AZ	85623
ROCKY & KAREN HART	59888 E HERON DRIVE	ORACLE	AZ	85623
WILLIAM & FREDA SHUMAN	59874 E HERON DRIVE	ORACLE	AZ	85623
MICHAEL & LORI LEONARD	59856 E HERON DRIVE	ORACLE	AZ	85623
CHRISTOPHER & SHARON ORLANDO	160 S OAK STREET STE 100	SISTERS	OR	97759
BRIGITTE TOUCHEQUE & ROCKLYNN SOBOLIK	60164 E BLUE PALM DRIVE	ORACLE	AZ	85623
DAVID & LYDIA SPARKS	60160 E BLUE PALM DRIVE	ORACLE	AZ	85623
DOUGLAS & BEVERLY REDFIELD	60156 E BLUE PALM DRIVE	ORACLE	AZ	85623
DIANE HENKE	60152 E BLUE PALM DRIVE	ORACLE	AZ	85623
RUSSELL & PENNEY OSTER	60148 E BLUE PALM DRIVE	ORACLE	AZ	85623
JOHN & MELISSA NEWFANG	60131 E HERON DRIVE	ORACLE	AZ	85623
JOHN GEIGER & SHERYL BERMAN	60117 E HERON DRIVE	ORACLE	AZ	85623
GILBERT & CHRISTINE LOGAN	60103 E HERON DRIVE	ORACLE	AZ	85623
CHRISTOPHER & CYNTHIA PYLKKA	60091 E HERON DRIVE	ORACLE	AZ	85623
ROBERT & KAY JOHNSON	60077 E HERON DRIVE	ORACLE	AZ	85623
JOSEPH & ROSA SEIBEL	60057 E HERON DRIVE	ORACLE	AZ	85623
ROBERT & BONNY DEMMERT	60035 E HERON DRIVE	ORACLE	AZ	85623
WOLF TOMBE	60019 E HERON DRIVE	ORACLE	AZ	85623
JENNIFER VALVERDE	31647 S SUMMERWIND DRIVE	ORACLE	AZ	85623
ANDREW & JUDITH ABADIA	31609 S SUMMERWIND DRIVE	ORACLE	AZ	85623
DAVID & REGINA MAISCH	31587 S SUMMER WIND DRIVE	ORACLE	AZ	85623
LANSON & CAROL SUTTER	31587 S SUMMERWIND DRIVE 31565 S SUMMERWIND DRIVE	ORACLE	AZ AZ	85623 85623
CRAIG & CINDY RUE	31553 S SUMMERWIND DRIVE	ORACLE	AZ	85623
STEVEN & VALERIE LAAK	60228 E PEPPERTREE LANE	ORACLE	AZ	85623
RICHARD & CORINNE ZABINSKI	60208 E PEPPERTREE LANE	ORACLE	AZ	85623
JOHN & JUDITH CALLAHAN	60188 E PEPPERTREE LANE	ORACLE	AZ	85623
STEPHEN & CAROLYN LAETHEM	1847 HACIENDA DRIVE	EL CAJON	CA	92020
FREDERICK & GAIL DAVILA	60132 E PEPPERTREE LANE	ORACLE	AZ	85623
EMILIO & JILL ACOSTA	60110 E PEPPERTREE LANE	ORACLE	AZ	85623
ALAIN & JULIE MARTINEZ	P.O. BOX 3629	WRIGHTWOOD	CA	92397
LARRY & LINDA MARTIN	60048 E PEPPERTREE LANE	ORACLE	AZ	85623
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MELVIN & ARTEENA ALLEN	60034 E PEPPERTREE LANE	ORACLE	AZ	85623
DENNIS & SAYRE ABBEY	60024 E PEPPERTREE LANE	ORACLE	AZ	85623
MATTHEW & PEDOTA NELSON	31630 S SUMMERWIND DRIVE	ORACLE	AZ	85623
JOEL & EILEEN WAGNER	31566 S SUMMERWIND DRIVE	ORACLE	AZ	85623
RICHARD & STACY MERRITT	31645 S TAMARISK PLACE	ORACLE	AZ	85623
ROBERT & DEBRA CRESSIO	31635 S TAMARISK PLACE	ORACLE	AZ	85623
RICHARD & KATHY WEILAND	31617 S TAMARISK PLACE	ORACLE	AZ	85623
RANDY & LINDA WRIGHT	31640 S TAMARISK PLACE	ORACLE	AZ	85623
COLIN & MARDIECE PATRICK	31618 S TAMARISK PLACE	ORACLE	AZ	85623
		ORACLE	AZ	85623
RICKY AULTMAN	60081 E PEPPERTREE LANE			
GUY & DEBRA SHELTON	60391 E SABINO DRIVE	ORACLE	AZ	85623
GERALD & DIANE FOX	60381 E SABINO DRIVE	ORACLE	AZ	85623
PAUL & CAROLEE BAILEY	60371 E SABINO DRIVE	ORACLE	AZ	85623
LEONARD SCHENKEL	60357 E SABINO DRIVE	ORACLE	AZ	85623
STANLEY & DENISE DOEPKE	60345 E SABINO DRIVE	ORACLE	AZ	85623
TIMOTHY & BRENDA POOLER	60327 E SABINO DRIVE	ORACLE	AZ	85623
WATLER & REBECCA RUZICK	60309 E SABINO DRIVE	ORACLE	AZ	85623
GEORGE PATTERSON & SHELLEY ZIEGLER	60291 E SABINO DRIVE	ORACLE	AZ	85623
ROBERT OLDSON	4001 STOVER AVENUE	SPIRIT LAKE	IA	51360
JOHN & MARCI WHITEHEAD	60255 E SABINO DRIVE	ORACLE	AZ	85623
JON SEMKE & DEBBIE CORNETT	60239 E SABINO DRIVE	ORACLE	AZ	85623
CURTIS & JO ANN KAMADA	60223 E SABINO DRIVE	ORACLE	AZ	85623
RICHARD & MARY DAHLIN	60205 E SABINO DRIVE	ORACLE	AZ	85623
MARSHALL & MARY BLACK	60191 E SABINO DRIVE	ORACLE	AZ	85623
GAIL LATIMER	31900 S AGARITA DRIVE	ORACLE	AZ	85623
BARBARA HEFT	31878 S AGARITA DRIVE	ORACLE	AZ	85623
RICHARD & JEANNE OSTERLUND	31860 S AGARITA DRIVE	ORACLE	AZ	85623
SALVATORE & MARY CALBONE	31842 S AGARITA DRIVE	ORACLE	AZ	85623
LEE & MARY STASTNY	31820 S AGARITA DRIVE	ORACLE	AZ	85623
ROY & EVALYN THOMPSON	31794 S AGARITA DRIVE	ORACLE	AZ	85623
SHERRY & STEPHEN WEISS	31776 S AGARITA DRIVE	ORACLE	AZ	85623
		WARWICK		18974
KELLY MCGARRITY	1377 GABRIEL LANE		PA	
LARRY BURCHFIELD	31742 S AGARITA DRIVE	ORACLE	AZ	85623
MARVIN SOSKIL & JANISE VERDI-SOSKIL	31724 S AGARITA DRIVE	ORACLE	AZ	85623
DAVID AMBLER & VICKI FROISTAD	31893 S AGARITA DRIVE	ORACLE	AZ	85623
ROBERT & JUDITH TOWNSEND	31875 S AGARITA DRIVE	ORACLE	AZ	85623
JONATHAN & JOAN BROOKS	31857 S AGARITA DRIVE	ORACLE	AZ	85623
MARK & LANI WARREN	31839 S AGARITA DRIVE	ORACLE	AZ	85623
DAVID & PAMELA BLAESS	31821 S AGARITA DRIVE	ORACLE	AZ	85623
BARBARA WHITEHEAD	31785 S AGARITA DRIVE	ORACLE	AZ	85623
SHEILA DAVIDSON & MARTIN KNEZOVICH	31759 S AGARITA DRIVE	ORACLE	AZ	85623
BILLY & MARSHA MCINVALE	31729 S AGARITA DRIVE	ORACLE	AZ	85623
STEVEN & DEBORAH CHAPMAN	31832 S TAMARISK PLACE	ORACLE	AZ	85623
THOMAS & KAREN KEINATH	90 CRESCENT MOON TRAIL	SILVERTHORNE	CO	80498
PAUL & CATHERINE THOMSEN	31798 S TAMARISK PLACE	ORACLE	AZ	85623
LAWRENCE NEDDER	2068 WEDGEWOOD DRIVE	ASBURY	IA	52002
ERNEST & KATHLEEN NEDDER	60163 E FOXGLOVE LANE	ORACLE	AZ	85623
KEVIN HAND	31833 S TAMARISK PLACE	ORACLE	AZ	85623
TIMOTHY & JULEE MALONE	31795 S TAMARISK PLACE	ORACLE	AZ	85623
KARL KNIGHT	31770 S SUMMERWIND DRIVE	ORACLE	AZ	85623
FRANKLIN & LINDA SHERFY	31752 S SUMMERWIND DRIVE	ORACLE	AZ	85623
WILLIAM & KAREN OPRISH	31771 S SUMMERWIND DRIVE	ORACLE	AZ	85623
BRIAN & NANCY COWMAN	60374 E SABINO DRIVE	ORACLE	AZ	85623
WAYNE UTECHT	31741 S SUMMERWIND DRIVE	ORACLE	AZ	85623
FLOYD & NANCY TUEL	31707 S SUMMERWIND DRIVE	ORACLE	AZ	85623
DENNIS & MARY ECKMEYER	31728 S SUMMERWIND DRIVE	ORACLE	AZ AZ	85623
ELIZABETH & RICHARD RYAN	31710 S SUMMERWIND DRIVE	ORACLE	AZ	85623
WILLIAM & DIAN GOWEN	31771 S TAMARISK PLACE	ORACLE	AZ	85623
ERIC NORMEN	31757 S TAMARISK PLACE	ORACLE	AZ	85623

RONALD DENNIS	60194 E FOXGLOVE LANE	ORACLE	AZ	85623
THOMAS TOSSEY	60182 E FOXGLOVE LANE	ORACLE	AZ	85623
ROBERT & JANELLE AUTHUR	60164 E FOXGLOVE LANE	ORACLE	AZ	85623
MICHAEL & ALEXANDRA ANNA	60873 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
SCOTT & ELLON JARVIS	60855 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
KENNETH & TERESA HULL	60837 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
WALTER & SHARON MOREY	60819 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
WILLIAM HARANT	60803 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
DUANE & ANNE BRETT	60785 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
WILLIAM & DOREEN REYNOLDS	60765 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
BRUCE & LYDIA STRICKLAND	60749 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
LARRY & LINDA RICHTER	60731 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
CHARLES & DONNA NORRIS	60713 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
MICHAEL OBLENESS & KIMBERLY TURNER	60665 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
JAMES DEHN	60647 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
ROBERT & DEBRA FERGUSON	60629 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
MARK DICKSTON	60611 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
WILLIAM & LINDA HARVEY	60587 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
PAMELA RYAN	60571 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
SCOTT & WENDY MCMILLAN	60551 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
JACK SMITH	60539 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
JOHN WILLIAMS	60521 E ARROYO VISTA DRIVE	ORACLE	AZ	
				85623
REBECCA WILLIAMS	60501 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
FRANK MOORE	60481 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
SHERYL RATLIFF	60463 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
MICHAEL & KAREN PHILLIPS	60437 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
FLOYD GREGORY	60413 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
WILLIAM & CAROL MIHAL	32265 S AGARITA DRIVE	ORACLE	AZ	85623
MARK & JANETTE MARTIN	32289 S AGARITA DRIVE	ORACLE	AZ	85623
RICHARD & NANCY FERRIS	32312 S AGARITA DRIVE	ORACLE	AZ	85623
ALLEN & PENNY BROCKSHUS	1000 LIGHTHOUSE DRIVE	MILFORD	IA	51351
CARL HERBERT	32264 S AGARITA DRIVE	ORACLE	AZ	85623
JOHN VALLINOTO	60379 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
GEORGE & VICTORIA PRICE	60365 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
LORA BURTON	60355 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
JAMES DOYLE	60381 E ANKOLE DRIVE	ORACLE	AZ	85623
DEAN & RAYNELLE DUHL	60377 E ANKOLE DRIVE	ORACLE	AZ	85623
MARK & LINDA NOBLE	60373 E ANKOLE DRIVE	ORACLE	AZ	85623
JAMES DOUGHERTY & JEANNE HARDIMAN	60369 E ANKOLE DRIVE	ORACLE	AZ	85623
LAWRENCE & LINDA STRUGALA	60365 E ANKOLE DRIVE	ORACLE	AZ	85623
LARRY & KAREN RASMUSSEN	60361 E ANKOLE DRIVE	ORACLE	AZ	85623
GWENN SOBEL	60357 E ANKOLE DRIVE	ORACLE	AZ	85623
JAMES RESSEGUIE	60353 E ANKOLE DRIVE	ORACLE	AZ	85623
DONALD & LESLIE FORE	60349 E ANKOLE DRIVE	ORACLE	AZ	85623
MICHAEL & KARI ERICKSON	2663 RAVENHILL CIRCLE	LITTLETON	CO	80126
STEPHEN & CATHLEEN KOVACH	60341 E ANKOLE DRIVE	ORACLE	AZ	85623
WILLIAM & LINDA PATENT	60333 E ANKOLE DRIVE	ORACLE	AZ	85623
LARRY & SHARON MARCHANT	60317 E ANKOLE DRIVE	ORACLE	AZ	85623
NIEL & JANET CHRISTENSEN	60295 E ANKOLE DRIVE	ORACLE	AZ	85623
DAVID & HEIDI KLEPACKI	60277 E ANKOLE DRIVE	ORACLE	AZ	85623
RONALD & GERI GREEN	60255 E ANKOLE DRIVE	ORACLE	AZ	85623
TERESA & KARL FLETCHER	60211 E ANKOLE DRIVE	ORACLE	AZ	85623
TERENCE HURLEY	60189 E ANKOLE DRIVE	ORACLE	AZ	85623
WILLIAM & CHERYL MOORE	60167 E ANKOLE DRIVE	ORACLE	AZ	85623
MARVIN & BONNIE RICHTER	60145 E ANKOLE DRIVE	ORACLE	AZ	85623
KEITH & SUSAN MEULEMANS	2581 WHITE PINE ROAD	SUAMICO	WI	54313
DALE & THERESA BARRINGER	60081 E ANKOLE DRIVE	ORACLE	AZ	85623
STEPHEN & CHRISTINE KAESTLE	60043 E ANKOLE DRIVE	ORACLE	AZ	85623
ROGER & LAURENE FISHER	60023 E ANKOLE DRIVE	ORACLE	AZ	85623

JOHN & VALERIE STRYKER	60013 E ANKOLE DRIVE	ORACLE	AZ	85623
JOHN & PATRICIA MCCALLUM	60007 E ANKOLE DRIVE	ORACLE	AZ	85623
ROBERT & LE ANN CHRISTIANSON	60001 E ANKOLE DRIVE	ORACLE	AZ	85623
PAULINE ALBERT	59993 E ANKOLE DRIVE	ORACLE	AZ	85623
TIMOTHY & LUCY PECK	9351 N BECK ROAD	PLYMOUTH	MI	48170
MICHAEL & LINDA HART	59979 E ANKOLE DRIVE	ORACLE	AZ	85623
CRAIG JANS	59971 E ANKOLE DRIVE	ORACLE	AZ	85623
JOHN BRAY	59967 E ANKOLE DRIVE	ORACLE	AZ	85623
JAMES & LYDIA REICHARD	59955 E ANKOLE DRIVE	ORACLE	AZ	85623
DARRELL & KRISTINE PETERSON	3370 WHITENEY CIRCLE	ANCHORAGE	AK	99516
KAREN RANSOM	32795 S EGRET TRAIL	ORACLE	AZ	85623
JOHN & DEBORAH TRAPP	32809 S EGRET TRAIL	ORACLE	AZ	85623
CHARLES & KATHY MUSCHANY	4870 RETRIEVER CIRCLE	ANCHORAGE	AK	99502
MICHAEL OHANIAN	32855 S EGRET TRAIL	ORACLE	AZ	85623
DONALD GRIMES	32873 S EGRET TRAIL	ORACLE	AZ	85623
JOSEPH & CAMILLE ESTERMAN	32889 S EGRET TRAIL	ORACLE	AZ	85623
DAVID & DONNA PREWITT	32905 S EGRET TRAIL	ORACLE	AZ	85623
JON & CATHERINE JUHLIN	4144C S HORE DRIVE	CLEAR LAKE	IA	50428
STEVEN & JAN OSTERKAMP	32937 S EGRET TRAIL	ORACLE	AZ	85623
WILLIAM & CHERYL PETTIJOHN	32959 S EGRET TRAIL	ORACLE	AZ	85623
EDWARD & CHERYL NASALIK	32977 S EGRET TRAIL	ORACLE	AZ	85623
RICHARD & DIANE STILL	32995 S EGRET TRAIL	ORACLE	AZ	85623
MICHAEL & LINDA CHONLE	33009 S EGRET TRAIL	ORACLE	AZ	85623
STEPHEN HANNS & JENNIFER BLACK	33021 S EGRET TRAIL	ORACLE	AZ	85623
ANN PEART	33039 S EGRET TRAIL	ORACLE	AZ	85623
HOLLY BLAKE	P.O. BOX 785	HAYDEN	CO	81639
PATRICIA ATCHLEY	290 S 208TH STREET	ELKHORN	NE	68022
RICHARD & SUSAN THOMPSON	33061 S EGRET TRAIL	ORACLE DOLLAR OF A CH	AZ	85623
WILLNAT LLC	9941 PECORINO ISLE	BOYNTON BEACH	FL	33473
LARRY & SANDRA BICKELHAUPT JOHN & CAROLYN NORDSTROM	60372 E ANKOLE DRIVE 60380 E ANKOLE DRIVE	ORACLE ORACLE	AZ AZ	85623 85623
DAVID & MARY TOWNSEND	P.O. BOX 575	CROCKETT	CA	94525
JOHN & BARBARA SIMON		ORACLE	AZ	85623
DOUGLAS & EMILY SMART	32433 S DESERT PUPFISH DRIVE 32411 S DESERT PUPFISH DRIVE	ORACLE	AZ	85623
RANDOLPH & REBECCA ELDE	P.O. BOX 615	CLEARLAKE	WA	98235
THOMAS & LYNN BEARD	32375 S DESERT PUPFISH DRIVE	ORACLE	AZ	85623
WILLIAM SCHWAB & TONI PILAR-SCHWAB	14327 E LAYTON DRIVE	AURORA	CO	80015
JAMES & LINDA VOLZ	32452 S DESERT PUPFISH DRIVE	ORACLE	AZ	85623
RICHARD FLINK & JUDITH YAZZIE	32432 S DESERT PUPFISH DRIVE	ORACLE	AZ	85623
CRAIG & STACY MATTHEWS	11214 44TH DRIVE NE	MARYSVILLE	WA	98271
KENNETH DRUMMY	5606 SWIFT CREEK DRIVE	MOUNT VERNON	WA	98273
ROBERT & PAMELA SARLUND	32378 S DESERT PUPFISH DRIVE	ORACLE	AZ	85623
JAME MCKAY	32360 S DESERT PUPFISH DRIVE	ORACLE	AZ	85623
WILLIAM & SANDRA SEAY	60263 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
MARK & VICKI KELLER	2942 EASTERN BOULEVARD	BALDWIN	NY	11510
MICHAEL & LINDA NICHOLSON	60209 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
DAVID ALLISON	60191 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
MICHAEL & SUSAN MILLER	31925 SE WILDCAT MOUNTAIN DRIVE	EAGLE CREEK	OR	97022
RICHARD & JANIS KNAPP	60157 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
ELLYN BIGGS	60139 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
MARTHA & JOSE SUAREZ	3916 N POTSDAM AVENUE	SIOUX FALLS	SD	57104
MICHAEL & MARGARET MCGINNIS	60103 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
THOMAS & JOAN GRAWE	60083 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
RACHEL JAHNKE	60047 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
LINDA GIBSON	32359 S EGRET TRAIL	ORACLE	AZ	85623
RICHARD & CHRISTINE STONE	323 WILSON ROAD	EASTON	CT	06612
LARRY & CHERYL LEGER	32381 S EGRET TRAIL	ORACLE	AZ	85623
ALFRED & NANCY SWENSON	32401 S EGRET TRAIL	ORACLE	AZ	85623
ROBERT & BARBARA DRURY	32425 S EGRET TRAIL	ORACLE	AZ	85623

GIFFORD & SANDRA JESSOP	32451 S EGRET TRAIL	ORACLE	AZ	85623
PAUL & JEANETTE KIEFFER	167 KIEFFER HILLS DRIVE	SAINT CHARLES	MN	55972
ALFRED & TINA KOHL	59908 E HORNBILL PLACE	ORACLE	AZ	85623
MICHAEL & JULIA PRICE	59986 E HORNBILL PLACE	ORACLE	AZ	85623
CHRISTINA & HG GODBEY	59966 E HORNBILL PLACE	ORACLE	AZ	85623
JELLE & DIANE BOOT	1 CAMPBELL DRIVE	SOMERS	NY	10589
		ORACLE		85623
CINDI & MARK MADISON	59930 E HORNBILL PLACE		AZ	
KENNETH & DONALEE LOMICA	336 WHITE FIR WAY	ROSEBURG	OR	97471
BARBARA WARNELL	32459 S SANDPIPER PLACE	ORACLE	AZ	85623
PATRICK & STEPHANIE HENDRICKS	32445 S SANDPIPER PLACE	ORACLE	AZ	85623
RAYMOND & MELANIE RITSON	32417 S SANDPIPER PLACE	ORACLE	AZ	85623
MEHLOHRN FAMILY TRUST	32420 S SANDPIPER PLACE	ORACLE	AZ	85623
WILLIAM & MAUREEN BALL	32446 S SANDPIPER PLACE	ORACLE	AZ	85623
PHILIP & MARY PRESTON	32460 S SANDPIPER PLACE	ORACLE	AZ	85623
RICHARD & PAULINE SULLIVAN	9424 GEORGETOWN LANE	VILLAGE OF LAKEWO		60014
CHARLES & BARBARA SIMMS	32495 S ADDAX PLACE	ORACLE	AZ	
				85623
D & K RENTAL INVESTMENTS	32475 S ADDAX PLACE	ORACLE	AZ	85623
RUSSEL & SHERRY BARTO	32457 S ADDAX PLACE	ORACLE	AZ	85623
ROBERT & CAPTOLA DONALDSON	32439 S ADDAX PLACE	ORACLE	AZ	85623
BROOKS & MICHELLE LARSON	P.O. BOX 341	SAVAGE	MN	55378
RICHARD & SANDRA FINEGOOD	32424 S ADDAX PLACE	ORACLE	AZ	85623
MARK & ROBIN YOUNG	32438 S ADDAX PLACE	ORACLE	AZ	85623
MICHAEL & JANIS DUWE	32458 S ADDAX PLACE	ORACLE	AZ	85623
JAMES & ROBERTA SPIEGEL	32476 S ADDAX PLACE	ORACLE	AZ	85623
GERALD SHINER & POLLY JONES	2812 FRANKLIN STREET	BELLINGHAM	WA	98225
MICHAEL & PATRICIA HENDERSON	32511 S PLOVER PLACE	ORACLE	AZ	85623
MARTIN & MARGARET BOOKER	32493 S PLOVER PLACE	ORACLE	AZ	85623
DONALD & KAREN MALEK	32477 S PLOVER PLACE	ORACLE	AZ	85623
FRANK & PATRICIA COMBS	32461 S PLOVER PLACE	ORACLE	AZ	85623
GARY & DEBORAH SANDIN	32449 S PLOVER PLACE	ORACLE	AZ	85623
RICHARD & ZENIA FERA	32440 S PLOVER PLACE	ORACLE	AZ	85623
RAEONE GILISON	32450 S PLOVER PLACE	ORACLE	AZ	85623
STEPHEN & CAROL FIELDING	32462 S PLOVER PLACE	ORACLE	AZ	85623
VERNON NULK	32478 S PLOVER PLACE	ORACLE	AZ	85623
			WI	53221
NANCY KOSTECKI	5433 AMBERWOOD LANE	MILWAUKEE		
DONALD & DEBORRA LAWSON	32512 S PLOVER PLACE	ORACLE	AZ	85623
JAMES & JEANNE JENSEN	32761 S EGRET TRAIL	ORACLE	AZ	85623
JOHN & BENNETT HOBACK	32737 S EGRET TRAIL	ORACLE	AZ	85623
CHARLES & JACQUELINE POST	32713 S EGRET TRAIL	ORACLE	AZ	85623
ANTHONY & NANCY FLEMING	59966 E ANKOLE DRIVE	ORACLE	AZ	85623
THOMAS & MARGARET MERRICK	59976 E ANKOLE DRIVE	ORACLE	AZ	85623
STEVEN & LISA ROCERETO	796 SOMMERSET ROAD	WOODLAND	WA	98674
MIKE & VICKI DERRENBERGER	59990 E ANKOLE DRIVE	ORACLE	AZ	85623
JOSEPH & CHRISTINE GRAY	59998 E ANKOLE DRIVE	ORACLE	AZ	85623
JOHN & JAMIE CALHOUN	59999 E HORNBILL PLACE	ORACLE	AZ	85623
DANIEL & PATRICIA SMEJKAL	59981 E HORNBILL PLACE	ORACLE	AZ	85623
PAUL & PATRICIA NICHOLLS	59935 E HORNBILL PLACE	ORACLE	AZ	85623
WILLIAM WELLS	59905 E HORNBILL PLACE	ORACLE	AZ	85623
JEFFERY & JANET HANSEN	32627 S EGRET TRAIL	ORACLE	AZ	85623
JEFFERY & MARY MUCKEY	11340 BIRCH ROAD	ANCHORAGE	AK	99516
DEBORA WITTEN	32649 S EGRET TRAIL	ORACLE	AZ	85623
KATHLEEN LINTHWAITE	32661 S EGRET TRAIL	ORACLE	AZ	85623
LOWELL SLETTEN	32794 S EGRET TRAIL	ORACLE	AZ	85623
JOHN & CARLA MARQUARDT	32808 S EGRET TRAIL	ORACLE	AZ	85623
DOUGLAS & BARBARA MILLER	32826 S EGRET TRAIL	ORACLE	AZ	85623
FRANKLIN JASPER	32842 S EGRET TRAIL	ORACLE	AZ	85623
ROBERT & KATHLEEN LYON	5606 IRONS WAY	AMES	IA	50010
DANIEL & DEBORAH CARTER	32880 S EGRET TRAIL	ORACLE	AZ	85623
EUGENE & CAROL NAULT	32898 S EGRET TRAIL	ORACLE	AZ	85623
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LIONEL & DEBRA CRENSHAW	32918 S EGRET TRAIL	ORACLE	AZ	85623
GEORGE BOUNELIS	32936 S EGRET TRAIL	ORACLE	AZ	85623
DANIEL & GRACE TAKETA	4436 GREENBRIER ROAD	LOMPOC	CA	93436
RICHARD & MARY JANE CARSTEN	32968 S EGRET TRAIL	ORACLE	AZ	85623
TIMOTHY & SUSAN DAVIESS	32779 S HYRAX LANE	ORACLE	AZ	85623
DONNA JAHNKE	32793 S HYRAX LANE	ORACLE	AZ	85623
DAVID ANDERSON	32807 S HYRAX LANE	ORACLE	AZ	85623
BRUCE & TERRI CRAWFORD	32821 S HYRAX LANE	ORACLE	AZ	85623
JOHN & NANCY SASSER	32833 S HYRAX LANE	ORACLE	AZ	85623
WILLIAM & MARGARET BEATTY	32847 S HYRAX LANE	ORACLE	AZ	85623
JON SWANSON & JAN STOREY	32863 S HYRAX LANE	ORACLE	AZ	85623
THOMAS & LANORA GALYA	32875 S HYRAX LANE	ORACLE	AZ	85623
PATRICIA & RONALD FLECK	32891 S HYRAX LANE	ORACLE	AZ	85623
LYNN & JANET BAKER	32905 S HYRAX LANE	ORACLE	AZ	85623
TOM & KATHLEEN MARSHALL	32782 S HYRAX LANE	ORACLE	AZ	85623
SANDRA THRELKELD	32796 S HYRAX LANE	ORACLE	AZ	85623
CRAIG & DEBORAH SCHREIBER	32816 S HYRAX LANE	ORACLE	AZ	85623
		ORACLE	AZ	
RONALD & CERITHA WILLEFORD	32840 S HYRAX LANE			85623
RONALD & RADONNA KNAPP	32862 S HYRAX LANE	ORACLE	AZ	85623
PAUL & PINKI FAUX	5920 SW SPRUCE AVENUE	BEAVERTON	OR	97005
WILLIAM & CARMEN ALLEN	32896 S HYRAX LANE	ORACLE	AZ	85623
CHARLES HARDER	32910 S HYRAX LANE	ORACLE	AZ	85623
PATRICK & CHERYL MURRAY	32922 S HYRAX LANE	ORACLE	AZ	85623
AMANDA KAMINSKI	59685 E SLIDER STREET	ORACLE	AZ	85623
MICHAEL & KATHLEEN PRITCHETT	59697 E SLIDER STREET	ORACLE	AZ	85623
CHRISTOPHER RYAN	59707 E SLIDER STREET	ORACLE	AZ	85623
JOHN & SUSAN BACKES	43568 STATE HIGHWAY 113	WAUBUN	MN	56589
PATRICIA CAVANAUGH	59719 E ANKOLE DRIVE	ORACLE	AZ	85623
ROBERT & GRACE GALLMANN	59697 E ANKOLE DRIVE	ORACLE	AZ	85623
GREGORY & THERESA PENDY	59667 E ANKOLE DRIVE	ORACLE	AZ	85623
THOMAS MANLEY	1117 OLD COLONY ROAD	LAKE FOREST	IL	60045
MICHAEL & KATHY HEALY	32803 S CATTLE TRAIL	ORACLE	AZ	85623
KEVIN KNOTT & MELANIE TIMBERLAKE	32841 S CATTLE TRAIL	ORACLE	AZ	85623
PHILIP & DEBORAH STREET	32865 S CATTLE TRAIL	ORACLE	AZ	85623
PETER GAISER	32883 S CATTLE TRAIL	ORACLE	AZ	85623
BRIAN & LAURINDA CROWE	32899 S CATTLE TRAIL	ORACLE	AZ	85623
CHARLES COXE & LIZA STRUB	32915 S CATTLE TRAIL	ORACLE	AZ	85623
CHARLES & DIANE THOMAS	32931 S CATTLE TRAIL	ORACLE	AZ	85623
EDWARD & TINA KRATZER	32949 S CATTLE TRAIL	ORACLE	AZ	85623
VICTOR & SHARON WALKER	32973 S CATTLE TRAIL	ORACLE	AZ	85623
THOMAS & MARY BERGIN	32999 S CATTLE TRAIL	ORACLE	AZ	85623
WILLIAM STEWART	33021 S CATTLE TRAIL	ORACLE	AZ	85623
WILLIAM & DEBRA NIXON	33037 S CATTLE TRAIL	ORACLE	AZ	85623
MARIAN BIANCHINI	33038 S CATTLE TRAIL	ORACLE	AZ	85623
FELIPE & DIANA POSADA	33018 S CATTLE TRAIL	ORACLE	AZ	85623
EDWARD & BARBARA SAFFRAN	33002 S CATTLE TRAIL	ORACLE	AZ	85623
EDWARD & RACHELLE VALDEZ	32968 S CATTLE TRAIL	ORACLE	AZ	85623
WRIGHT LIVING TRUST	32952 S CATTLE TRAIL	ORACLE	AZ	85623
JAMES & RANDY LINDLEY	430 DUNWOODY DRIVE	ORACLE	AZ	85623
GREEG GESER	1656 W LAMBERT AVENUE	SISTERS	OR	97759
DARYL & DIANA DECARR	32898 S CATTLE TRAIL	ORACLE	AZ	85623
SHERRY & MICHAEL SMITH	32884 S CATTLE TRAIL	ORACLE	AZ	85623
		ORACLE	AZ	85623
JOSEPH & JENNIFER CAMPION	32866 S CATTLE TRAIL	OD LOT E		0.5.65
LLOYD & SHARON FARBER	32852 S CATTLE TRAIL	ORACLE	AZ	85623
LLOYD & SHARON FARBER ARLENE LAASE	32852 S CATTLE TRAIL 7001 SEAVIEW AVENUE NW #160-430	SEATTLE	WA	98117
LLOYD & SHARON FARBER ARLENE LAASE MICHAEL & SUSAN SCHUSTER	32852 S CATTLE TRAIL 7001 SEAVIEW AVENUE NW #160-430 540 EASTWOOD COURT	SEATTLE EAGAN	WA MN	98117 55123
LLOYD & SHARON FARBER ARLENE LAASE	32852 S CATTLE TRAIL 7001 SEAVIEW AVENUE NW #160-430	SEATTLE	WA	98117
LLOYD & SHARON FARBER ARLENE LAASE MICHAEL & SUSAN SCHUSTER	32852 S CATTLE TRAIL 7001 SEAVIEW AVENUE NW #160-430 540 EASTWOOD COURT	SEATTLE EAGAN	WA MN	98117 55123
LLOYD & SHARON FARBER ARLENE LAASE MICHAEL & SUSAN SCHUSTER DIANNA LEBRECHT	32852 S CATTLE TRAIL 7001 SEAVIEW AVENUE NW #160-430 540 EASTWOOD COURT 60892 E ARROYO VISTA DRIVE	SEATTLE EAGAN ORACLE	WA MN AZ	98117 55123 85623

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INALITIES	LORI SAMPSON & MARTHA GASSER	60716 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
DANTE A VIRGORIA MEDIUMN	KIMBERLY PEARCE	60557 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
DANTE A VIRGORIA MEDIUMN	TINA LUTHER	627 PORTOFINO PLACE	OXNARD	CA	93035
MICHAEL APATRICIA METRIAN GAST ARROYO VISTA DRIVE ORACLE AZ SSEC					85623
WALANCES TREST					85623
RECHARD & MARY SNOWDEN GONE E ARROYD VISTA DRIVE					
INTERDIDE & CATHERINE WIRMAN					
SURIANO DAVID					
MALLA & CYNIHA BERRY					
HANCES RIBERIAM 6939 F ARROYO VISTA DRIVE ORACLE AZ 850					
IMODITY & CATHERINS SULLIANN					
IOLES ADDITIONS 66500 F. ARROYO VINTA DRIVE ORACLE AZ \$502					85623
ROBERT & CAROLE ORTICA 60450 F ARROYO VISTA DRIVE ORACLE AZ \$505 PALT HIGHISH 60450 F ARROYO VISTA DRIVE ORACLE AZ \$505 PALT HIGHISH 60440 F ARROYO VISTA DRIVE ORACLE AZ \$505 PALT HIGHISH 60440 F ARROYO VISTA DRIVE ORACLE AZ \$505 PALT HIGHISH 60440 F ARROYO VISTA DRIVE ORACLE AZ \$505 CARTH & FARKET DISSON 60420 F ARROYO VISTA DRIVE ORACLE AZ \$505 CARTH & FARKET DISSON 60420 F ARROYO VISTA DRIVE ORACLE AZ \$505 CARTH & FARKET DISSON 60420 F ARROYO VISTA DRIVE ORACLE AZ \$505 CARTH & FARKET DISSON 60420 F ARROYO GRANDE DRIVE ORACLE AZ \$505 CARTH & FARKET DISSON 60420 F ARROYO GRANDE DRIVE ORACLE AZ \$505 CARTH & FARKET DISSON 60420 F ARROYO GRANDE DRIVE ORACLE AZ \$505 CARTH & FARKET DISSON 60420 F ARROYO GRANDE DRIVE ORACLE AZ \$505 CARTH & FARKET DRIVEN 60430 F ARROYO GRANDE DRIVE ORACLE AZ \$505 CARTH & FARKET DRIVEN 60430 F ARROYO GRANDE DRIVE ORACLE AZ \$505 CARTH & FARKET DRIVEN 60430 F ARROYO GRANDE DRIVE ORACLE AZ \$505 CARTH & FARKET DRIVEN 60430 F ARROYO GRANDE DRIVE ORACLE AZ \$505 CARTH & FARKET DRIVEN 60430 F ARROYO GRANDE DRIVE ORACLE AZ \$505 CARTH & FARKET DRIVEN 60430 F ARROYO GRANDE DRIVE ORACLE AZ \$505 CARTH & FARKET DRIVEN 60430 F ARROYO GRANDE DRIVE ORACLE AZ \$505 CARTH & FARKET DRIVEN 60430 F ARROYO GRANDE DRIVE ORACLE AZ \$505 CARTH & FARKET DRIVEN 60430 F ARROYO GRANDE DRIVE ORACLE AZ \$505 CARTH & FARKET DRIVEN 60430 F ARROYO GRANDE DRIVE ORACLE AZ \$505 CARTH & FARKET DRIVEN 60430 F ARROYO GRANDE DRIVE ORACLE AZ \$505 CARNE & FARKET DRIVEN 60430 F ARROYO GRANDE DRIVE ORACLE AZ \$505 CARNO WILLIAM 60430 F ARROYO GRANDE DRIVE ORACLE AZ \$505 CARNO WILLIAM 60430 F ARROYO GRANDE DRIVE ORACLE AZ \$505 CARNO WILLIAM 60430 F ARROYO GRANDE DRIVE ORACLE AZ \$505 CARNO WILLIAM 60430 F ARROYO GRANDE DRIVE ORACLE AZ \$505 CARNO WILLIAM 60	TIMOTHY & CATHERINE SULLIVAN	60520 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
DERRICK, & CONSUELO MELTUSH	LOUIS JOHNSON	60500 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
MALT HUGHES 66440 E ARROYO VISTA DRIVE ORACLE AZ 8562	ROBERT & CAROLE ORTEGA	60480 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
MALT HUGHES 66440 E ARROYO VISTA DRIVE ORACLE AZ 8562					85623
WAYNE & DEBORAIN NORWOOD 66912 F ARROYO VISTA DRIVE ORACLE AZ 8502					
GARTHA JANICE OLSSON 66902 E ARROYO UNIA DRIVE					
DAVID & LISA GEORGE					
EDWIN ECHERT 200 SOMERSET LANE					
PRISCILLA KRAMER 60315 LARROYO GRANDE DRIVE 60312 LARROYO GRANDE DRIVE 60312 LARROYO GRANDE DRIVE 60312 LARROYO GRANDE DRIVE 60315 SUNSET I WE DRIVE 60315 LARROYO GRANDE DRIVE 60315 LARROYO G					
ROBERT & PATRICIA PERRY 6032 & ARROYO GRANDE DRIVE					
WILLIS WONG					
ANNEL LEE	ROBERT & PATRICIA PERRY	60323 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
RONALD & SONDRA BARTOLUCCI	WILLIS WONG	60341 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
SON & PILAR BORM	JANICE LEE	60475 SUNSET VIEW DRIVE	BEND	OR	97702
CLIFFORD & MARLENNE FOWLER 60455 £ ARROYO GRANDE DRIVE ORACLE AZ 856, ROBERT & SANDRA SCHLAGER 60450 £ ARROYO GRANDE DRIVE ORACLE AZ 856, ROBERT & SANDRA SCHLAGER 6050 £ ARROYO GRANDE DRIVE ORACLE AZ 856, ROBERT & SANDRA SCHLAGER 60515 £ ARROYO GRANDE DRIVE ORACLE AZ 856, ROBERT & SANDRA SCHLAGER 60515 £ ARROYO GRANDE DRIVE ORACLE AZ 856, ROBERT & SANDRA SCHLAGER 60515 £ ARROYO GRANDE DRIVE ORACLE AZ 856, ROBERT & SANDRA SCHLAGER 60515 £ ARROYO GRANDE DRIVE ORACLE AZ 856, ROBERT & SANDRA SCHLAGER 60515 £ ARROYO GRANDE DRIVE ORACLE AZ 856, DAVID & LINA BOTT ORACLE	RONALD & SONDRA BARTOLUCCI	60393 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
CLIFFORD & MARLENNE FOWLER 60455 £ ARROYO GRANDE DRIVE ORACLE AZ 856, ROBERT & SANDRA SCHLAGER 60450 £ ARROYO GRANDE DRIVE ORACLE AZ 856, ROBERT & SANDRA SCHLAGER 6050 £ ARROYO GRANDE DRIVE ORACLE AZ 856, ROBERT & SANDRA SCHLAGER 60515 £ ARROYO GRANDE DRIVE ORACLE AZ 856, ROBERT & SANDRA SCHLAGER 60515 £ ARROYO GRANDE DRIVE ORACLE AZ 856, ROBERT & SANDRA SCHLAGER 60515 £ ARROYO GRANDE DRIVE ORACLE AZ 856, ROBERT & SANDRA SCHLAGER 60515 £ ARROYO GRANDE DRIVE ORACLE AZ 856, ROBERT & SANDRA SCHLAGER 60515 £ ARROYO GRANDE DRIVE ORACLE AZ 856, DAVID & LINA BOTT ORACLE	JON & PILAR BORM	60427 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
GREGORY & MARLENI JOLLY					85623
ROBERT & SANDRA SCHLAGER 60905 E ARROYO GRANDE DRIVE ORACLE AZ 8502 ROBERT & KAY BATLIF 60931 E ARROYO GRANDE DRIVE ORACLE AZ 8502 ROBERT & KAY BATLIF 60935 E ARROYO GRANDE DRIVE ORACLE AZ 8502 ENWIN & KATHLEEN HARRIS 60935 E ARROYO GRANDE DRIVE ORACLE AZ 8502 ZANN WILSON 60611 E ARROYO GRANDE DRIVE ORACLE AZ 8502 DAVID & LINA BOTT 60629 E ARROYO GRANDE DRIVE ORACLE AZ 8502 JAMES GRADY 60645 E ARROYO GRANDE DRIVE ORACLE AZ 8502 JAMES GRADY 1497 RESERVE PLACE BROMFIELD CO 8002 DANIEL & KATHRYN WATSON 60681 E ARROYO GRANDE DRIVE ORACLE AZ 8502 WILLIAM & JANE LOCKETT 31875 S GULCH PASS ROAD ORACLE AZ 8502 WILLIAM & JANE LOCKETT 31875 S GULCH PASS ROAD ORACLE AZ 8502 VELANS SEYROS 31813 S GULCH PASS ROAD ORACLE AZ 8502 SEYROS SALINA BOND ROBINE DELONG-STARK					
ROBERT & JODY STANTLEY 6631 E ARROYO GRANDE DRIVE ORACLE AZ 8562 ROBERT & KAY PATLIFF 66375 E ARROYO GRANDE DRIVE ORACLE AZ 8562 EDWIN & KATHLEEN HARRIS 66593 E ARROYO GRANDE DRIVE ORACLE AZ 8562 ZANN WILSON 66611 E ARROYO GRANDE DRIVE ORACLE AZ 8562 DAVID & LINA BOTT 66629 E ARROYO GRANDE DRIVE ORACLE AZ 8562 JEFFERSON & SUSAN PHARR 66645 E ARROYO GRANDE DRIVE ORACLE AZ 8562 JAMES GRADY 14197 RESERVE PLACE BROOMFIELD O 8002 DANIEL, & KATHEYN WATSON 66618 E ARROYO GRANDE DRIVE ORACLE AZ 8562 DANIEL, & KATHEYN WATSON 6681 E ARROYO GRANDE DRIVE ORACLE AZ 8562 BEENDON & SHANNON HIRSCHBERG 31857 S GULCH PASS ROAD ORACLE AZ 8562 BEENDON & SHANNON HIRSCHBERG 31835 S GULCH PASS ROAD ORACLE AZ 8562 EVAN SEYROS 31813 S GULCH PASS ROAD ORACLE AZ 8562 EVAN SEYROS					
ROBERT & KAY RATLIFF					
EDWIN & KATHLEEN HARRIS					
ZANN WILSON					
DAVID & LINA BOTT					
JEFFERSON & SUSAN PHARR					
JAMES GRADY					
DANIEL & KATHEYN WATSON 6068 IE ARROYO GRANDE DRIVE ORACLE AZ 8562 WILLIAM & JANE LOCKETT 31875 S GULCH PASS ROAD ORACLE AZ 8562 BENDON & SHANNON HIRSCHBERG 31885 S GULCH PASS ROAD ORACLE AZ 8562 JOHN STARK & BONNIE DELONG-STARK 31813 S GULCH PASS ROAD ORACLE AZ 8562 CHARLIE & DONNA SCOTT 31793 S GULCH PASS ROAD ORACLE AZ 8562 CHARLIE & DONNA SCOTT 31793 S GULCH PASS ROAD ORACLE AZ 8562 EUGENE & LORETTA ROUND 31773 S GULCH PASS ROAD ORACLE AZ 8562 EUGENE & LORETTA ROUND 31773 S GULCH PASS ROAD ORACLE AZ 8562 ERIC & SUZANNE HANSON 31733 S GULCH PASS ROAD ORACLE AZ 8562 ERIC & SUZANNE HANSON 31733 S GULCH PASS ROAD ORACLE AZ 8562 ERIC & SUZANNE HANSON 31733 S GULCH PASS ROAD ORACLE AZ 8562 ERIC & SUZANNE HANSON 31733 S GULCH PASS ROAD ORACLE AZ 8562 ERIC & SUZANNE HANSON 31733 S GULCH PASS ROAD ORACLE AZ 8562 ERIC & SUZANNE HANSON 31733 S GULCH PASS ROAD ORACLE AZ 8562 ERIC & SUZANNE HANSON 31733 S GULCH PASS ROAD ORACLE AZ 8562 ERIC & SUZANNE HANSON 31733 S GULCH PASS ROAD ORACLE AZ 8562 ERIC & SUZANNE HANSON 31691 S GULCH PASS ROAD ORACLE AZ 8562 ERIC & SUZANNE HANSON 31691 S GULCH PASS ROAD ORACLE AZ 8562 ERIC & SUZANNE HANSON 31691 S GULCH PASS ROAD ORACLE AZ 8562 ERIC & SUZANNE HANSON 31691 S GULCH PASS ROAD ORACLE AZ 8562 ERIC & SUZANNE HANSON 31691 S GULCH PASS ROAD ORACLE AZ 8562 ERIC & SUZANNE HANSON 31691 S GULCH PASS ROAD ORACLE AZ 8562 ERIC & SUZANNE HANSON 31691 S GULCH PASS ROAD ORACLE AZ 8562 ERIC & SUZANNE HANSON 31691 S GULCH PASS ROAD ORACLE AZ 8562 ERIC & SUZANNE HANSON 31691 S GULCH PASS ROAD ORACLE AZ 8562 ERIC & SUZANNE HANSON 31691 S GULCH PASS ROAD ORACLE AZ 8562 ERIC & SUZANNE HANSON 31691 S GULCH PASS ROAD ORACLE AZ 8562 ERIC & SUZANNE HANSON 31691 S GULCH PASS ROAD ORACLE AZ 8562 ERIC & SUZANNE HANSON 31691 S GULCH PASS ROAD ORACLE AZ 8562 ERIC & SUZANNE HANSON 31691 S GULCH PASS ROAD ORACLE AZ 8562 ERIC & SUZANNE HANSON 31691 S GULCH PASS ROAD ORACLE AZ 8562 ERIC					85623
WILLIAM & JANE LOCKETT 31875 S GULCH PASS ROAD ORACLE AZ 8562 BRENDON & SHANNON HIRSCHBERG 31855 S GULCH PASS ROAD ORACLE AZ 8562 DIONI STARK & BONNIE DELONG-STARK 31835 S GULCH PASS ROAD ORACLE AZ 8562 EVANS SPYROS 31813 S GULCH PASS ROAD ORACLE AZ 8562 CHARLIE & DONNA SCOTT 31793 S GULCH PASS ROAD ORACLE AZ 8562 CHARLIE & DONNA SCOTT 31793 S GULCH PASS ROAD ORACLE AZ 8562 CHARLIE & DONNA SCOTT 31793 S GULCH PASS ROAD ORACLE AZ 8562 CHARLIE & DONNA SCOTT 31793 S GULCH PASS ROAD ORACLE AZ 8562 STEVE & JUDITH ANDRASIC 31731 S GULCH PASS ROAD ORACLE AZ 8562 STEVE & JUDITH ANDRASIC 31731 S GULCH PASS ROAD ORACLE AZ 8562 ERIC & SUZANNE HANSON 31671 S GULCH PASS ROAD ORACLE AZ 8562 STEPHEN & GISELA ORDAHIL 31691 S GULCH PASS ROAD ORACLE AZ 8562 STEPHEN & GISELA ORDAHIL<	JAMES GRADY	14197 RESERVE PLACE	BROOMFIELD	CO	80023
BRENDON & SHANNON HIRSCHEERG 31855 S GULCH PASS ROAD ORACLE AZ 8562 JOHN STARK & BONNIE DELONG-STARK 31835 S GULCH PASS ROAD ORACLE AZ 8562 EVANS SPYROS 31813 S GULCH PASS ROAD ORACLE AZ 8562 CHARLIE & DONNA SCOTT 31793 S GULCH PASS ROAD ORACLE AZ 8562 CHARLIE & DONNA SCOTT 31773 S GULCH PASS ROAD ORACLE AZ 8562 STEVE & JUDITH ANDRASIC 31731 S GULCH PASS ROAD ORACLE AZ 8562 STEVE & JUDITH ANDRASIC 31731 S GULCH PASS ROAD ORACLE AZ 8562 ERIC & SUZANNE HANSON 31731 S GULCH PASS ROAD ORACLE AZ 8562 ERIC & SUZANNE HANSON 31691 S GULCH PASS ROAD ORACLE AZ 8562 STEPHEN & GISELA ORDAHL 31691 S GULCH PASS ROAD ORACLE AZ 8562 STEPHEN & GISELA ORDAHL 31691 S GULCH PASS ROAD ORACLE AZ 8562 JOHN & KABEN GRESSINGH 31691 S GULCH PASS ROAD ORACLE AZ 8562 BETH BERZON & JOHN HUARD 60348 E ARROYO VISTA DRIVE ORACLE AZ 8562 <	DANIEL & KATHRYN WATSON	60681 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
DOHN STARK & BONNIE DELONG-STARK 31835 S GULCH PASS ROAD	WILLIAM & JANE LOCKETT	31875 S GULCH PASS ROAD	ORACLE	AZ	85623
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EVANS SPYROS 31813 S GULCH PASS ROAD ORACLE AZ 8562 CHARLIE & DONNA SCOTT 31793 S GULCH PASS ROAD ORACLE AZ 8562 EUGENE & LORETTA ROUND 31773 S GULCH PASS ROAD ORACLE AZ 8562 STEVE & JUDITH ANDRASIC 31731 S GULCH PASS ROAD ORACLE AZ 8562 ERIC & SUZANNE HANSON 31733 S GULCH PASS ROAD ORACLE AZ 8562 FERIC & SUZANNE HANSON 31731 S GULCH PASS ROAD ORACLE AZ 8562 FERIC & SUZANNE HANSON 31691 S GULCH PASS ROAD ORACLE AZ 8562 FERIC & SUZANNE HANSON 31691 S GULCH PASS ROAD ORACLE AZ 8562 FERIC & SUZANNE HANSON 31691 S GULCH PASS ROAD ORACLE AZ 8562 EDGARS KUPCIS & LINDA INHELDER 31691 S GULCH PASS ROAD ORACLE AZ 8562 JOHN & KAREN GRESSINGH 31691 S GULCH PASS ROAD ORACLE AZ 8562 JOHN & KAREN GRESSINGH 31691 S GULCH PASS ROAD ORACLE AZ 8562 MARTIN & PATRICIA VONK 438 TIMBERLAKE DRIVE ORACLE AZ 8562	JOHN STARK & BONNIE DELONG-STARK	31835 S GULCH PASS ROAD	ORACLE	AZ	85623
CHARLIE & DONNA SCOTT 31793 S GULCH PASS ROAD ORACLE AZ 8562 EUGENE & LORETTA ROUND 31773 S GULCH PASS ROAD ORACLE AZ 8562 STEVE & JUDITH ANDRASIC 31751 S GULCH PASS ROAD ORACLE AZ 8562 ERIC & SUZANNE HANSON 31733 S GULCH PASS ROAD ORACLE AZ 8562 ERIC & SUZANNE HANSON 31733 S GULCH PASS ROAD ORACLE AZ 8562 FEPHEN & GISELA ORDAHL 31691 S GULCH PASS ROAD ORACLE AZ 8562 EDGARS KUPCIS & LINDA INHELDER 31691 S GULCH PASS ROAD ORACLE AZ 8562 JOHN & KAREN GRESSINGH 31691 S GULCH PASS ROAD ORACLE AZ 8562 JOHN & KAREN GRESSINGH 31691 S GULCH PASS ROAD ORACLE AZ 8562 JOHN & KAREN GRESSINGH 31691 S GULCH PASS ROAD ORACLE AZ 8562 BETH BERZON & JOHN HUARD 60344 E ARROYO VISTA DRIVE ORACLE AZ 8562 MARTIN & PATRICIA VONK 438 TIMBERLAKE DRIVE E HOLLAND MI 4942 ROBERT & TERESE DENSMORE 60360 E ARROYO VISTA DRIVE ORACLE AZ 8562			ORACLE		85623
EUGENE & LORETTA ROUND 31773 S GULCH PASS ROAD ORACLE AZ 8562 STEVE & JUDITH ANDRASIC 31731 S GULCH PASS ROAD ORACLE AZ 8562 ERIC & SUZANNE HANSON 31733 S GULCH PASS ROAD ORACLE AZ 8562 P & J FANCHER 31713 S GULCH PASS ROAD ORACLE AZ 8562 STEPHEN & GISELA ORDAHL 31691 S GULCH PASS ROAD ORACLE AZ 8562 EDGARS KUPCIS & LINDA INHELDER 31671 S GULCH PASS ROAD ORACLE AZ 8562 DEARLY & MARCH GRESSINGH 31671 S GULCH PASS ROAD ORACLE AZ 8562 BETH BERZON & JOHN HUARD 31671 S GULCH PASS ROAD ORACLE AZ 8562 BETH BERZON & JOHN HUARD 60384 E ARROYO VISTA DRIVE ORACLE AZ 8562 MARTIN & PATRICIA VONK 438 TIMBERLAKE DRIVE E HOLLAND MI 4942 ROBERT & TERESE DENSMORE 60360 E ARROYO VISTA DRIVE ORACLE AZ 8562 JAMES & CATHY KAUFFMAN 60352 E ARROYO VISTA DRIVE ORACLE AZ 8562 GARY & DENISE					85623
STEVE & JUDITH ANDRASIC 31751 S GULCH PASS ROAD ORACLE AZ 8562 ERIC & SUZANNE HANSON 31733 S GULCH PASS ROAD ORACLE AZ 8562 P & J FANCHER 31713 S GULCH PASS ROAD ORACLE AZ 8562 STEPHEN & GISELA ORDAHL 31691 S GULCH PASS ROAD ORACLE AZ 8562 EDGARS KUPCIS & LINDA INHELDER 31671 S GULCH PASS ROAD ORACLE AZ 8562 JOHN & KAREN GRESSINGH 31651 S GULCH PASS ROAD ORACLE AZ 8562 JOHN & KAREN GRESSINGH 31651 S GULCH PASS ROAD ORACLE AZ 8562 MARTIN & PATRICIA VONK 438 TIMBERLAKE DRIVE ORACLE AZ 8562 MARTIN & PATRICIA VONK 438 TIMBERLAKE DRIVE E HOLLAND MI 4942 HENRY & NANA KIRCHNER 60360 E ARROYO VISTA DRIVE ORACLE AZ 8562 JAMES & CATHY KAUFFMAN 60342 E ARROYO VISTA DRIVE ORACLE AZ 8562 GARY & DENISE BOYDSTUN 60342 E ARROYO VISTA DRIVE ORACLE AZ 8562 CHARLES & MARTHA REISER <td></td> <td></td> <td></td> <td></td> <td></td>					
ERIC & SUZANNE HANSON 31733 S GULCH PASS ROAD ORACLE AZ 8562 P & J FANCHER 31713 S GULCH PASS ROAD ORACLE AZ 8562 STEPHEN & GISELA ORDAHL 31691 S GULCH PASS ROAD ORACLE AZ 8562 STEPHEN & GISELA ORDAHL 31691 S GULCH PASS ROAD ORACLE AZ 8562 DIAN & KAREN GRESSINGH 31671 S GULCH PASS ROAD ORACLE AZ 8562 JOHN & KAREN GRESSINGH 31651 S GULCH PASS ROAD ORACLE AZ 8562 BETH BERZON & JOHN HUARD 60384 E ARROYO VISTA DRIVE ORACLE AZ 8562 MARTIN & PATRICIA VONK 438 TIMBERLAKE DRIVE E HOLLAND MI 4942 ROBERT & TERESE DENSMORE 60360 E ARROYO VISTA DRIVE ORACLE AZ 8562 HENRY & NANA KIRCHNER 60352 E ARROYO VISTA DRIVE ORACLE AZ 8562 JAMES & CATHY KAUFFMAN 60342 E ARROYO VISTA DRIVE ORACLE AZ 8562 GARY & DENISE BOYDSTUN 60332 E ARROYO VISTA DRIVE ORACLE AZ 8562 CHARLES & MARTHA REISER 60304 E ARROYO VISTA DRIVE ORACLE AZ 8562					
P& J FANCHER 31713 S GULCH PASS ROAD ORACLE AZ 8562 STEPHEN & GISELA ORDAHL 31691 S GULCH PASS ROAD ORACLE AZ 8562 EDGARS KUPCIS & LINDA INHELDER 31671 S GULCH PASS ROAD ORACLE AZ 8562 JOHN & KAREN GRESSINGH 31651 S GULCH PASS ROAD ORACLE AZ 8562 JOHN & KAREN GRESSINGH 31651 S GULCH PASS ROAD ORACLE AZ 8562 MARTIN & PATRICIA VONK 60384 E ARROYO VISTA DRIVE ORACLE AZ 8562 MARTIN & PATRICIA VONK 438 TIMBERLAKE DRIVE E HOLLAND MI 4942 ROBERT & TERESE DENSMORE 60360 E ARROYO VISTA DRIVE ORACLE AZ 8562 HENRY & NANA KIRCHNER 60352 E ARROYO VISTA DRIVE ORACLE AZ 8562 JAMES & CATHY KAUFFMAN 60342 E ARROYO VISTA DRIVE ORACLE AZ 8562 GARY & DENISE BOYDSTUN 60304 E ARROYO VISTA DRIVE ORACLE AZ 8562 MARCIA MCCHRYSTAL 60304 E ARROYO VISTA DRIVE ORACLE AZ 8562 GARY & DEBORAH KEENEY 60260 E ARROYO VISTA DRIVE ORACLE AZ 8562					
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EDGARS KUPCIS & LINDA INHELDER 31671 S GULCH PASS ROAD ORACLE AZ 8562 JOHN & KAREN GRESSINGH 31651 S GULCH PASS ROAD ORACLE AZ 8562 BETH BERZON & JOHN HUARD 60384 E ARROYO VISTA DRIVE ORACLE AZ 8562 AZ					
JOHN & KAREN GRESSINGH JOHN & KAREN GRESSINGH 31651 S GULCH PASS ROAD ORACLE AZ 8562 BETH BERZON & JOHN HUARD 60384 E ARROYO VISTA DRIVE ORACLE AZ 8562 MARTIN & PATRICIA VONK 438 TIMBERLAKE DRIVE E HOLLAND MI 4942 ROBERT & TERESE DENSMORE 60360 E ARROYO VISTA DRIVE ORACLE AZ 8562 HENRY & NANA KIRCHNER 60352 E ARROYO VISTA DRIVE ORACLE AZ 8562 JAMES & CATHY KAUFFMAN 60342 E ARROYO VISTA DRIVE ORACLE AZ 8562 CHARLES & MARTHA REISER 60304 E ARROYO VISTA DRIVE ORACLE AZ 8562 CHARLES & MARTHA REISER 60304 E ARROYO VISTA DRIVE ORACLE AZ 8562 GARY & DEBORAH KEENEY 60268 E ARROYO VISTA DRIVE ORACLE AZ 8562 ORACLE ORACLE AZ 8562 ORACLE AZ 8562 ORACLE ORACLE AZ 8562 ORACLE ORACLE AZ 8562 ORACLE AZ 8562 ORACLE ORACLE AZ 8562 ORACLE ORACLE AZ 8562 ORACLE ORACLE AZ 8562 ORACLE AZ 8562 ORACLE AZ 8562 ORACLE AZ 8562 ORACLE OR					
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MARTIN & PATRICIA VONK ROBERT & TERESE DENSMORE 60360 E ARROYO VISTA DRIVE ORACLE AZ 8562 HENRY & NANA KIRCHNER 60352 E ARROYO VISTA DRIVE ORACLE AZ 8562 JAMES & CATHY KAUFFMAN 60342 E ARROYO VISTA DRIVE ORACLE AZ 8562 GARY & DENISE BOYDSTUN 60322 E ARROYO VISTA DRIVE ORACLE AZ 8562 AZ 8562 GARY & DENISE BOYDSTUN 60324 E ARROYO VISTA DRIVE ORACLE AZ 8562 AZ 8562 GARY & DESORAH KEENEY 60204 E ARROYO VISTA DRIVE ORACLE AZ 8562 AZ 8562 AZ 8562 AZ 8562					85623
ROBERT & TERESE DENSMORE 60360 E ARROYO VISTA DRIVE ORACLE AZ 8562 HENRY & NANA KIRCHNER 60352 E ARROYO VISTA DRIVE ORACLE AZ 8562 JAMES & CATHY KAUFFMAN 60342 E ARROYO VISTA DRIVE ORACLE AZ 8562 GARY & DENISE BOYDSTUN 60332 E ARROYO VISTA DRIVE ORACLE AZ 8562 CHARLES & MARTHA REISER 60304 E ARROYO VISTA DRIVE ORACLE AZ 8562 GARY & DEBORAH KEENEY 60268 E ARROYO VISTA DRIVE ORACLE AZ 8562 GARY & DEBORAH KEENEY					85623
HENRY & NANA KIRCHNER 60352 E ARROYO VISTA DRIVE ORACLE AZ 8562 JAMES & CATHY KAUFFMAN 60342 E ARROYO VISTA DRIVE ORACLE AZ 8562 GARY & DENISE BOYDSTUN 60332 E ARROYO VISTA DRIVE ORACLE AZ 8562 CHARLES & MARTHA REISER 60304 E ARROYO VISTA DRIVE ORACLE AZ 8562 MARCIA MCCHRYSTAL 60278 E ARROYO VISTA DRIVE ORACLE AZ 8562 GARY & DEBORAH KEENEY 60260 E ARROYO VISTA DRIVE ORACLE AZ 8562	MARTIN & PATRICIA VONK	438 TIMBERLAKE DRIVE E			49424
JAMES & CATHY KAUFFMAN 60342 E ARROYO VISTA DRIVE ORACLE AZ 8562 GARY & DENISE BOYDSTUN 60332 E ARROYO VISTA DRIVE ORACLE AZ 8562 CHARLES & MARTHA REISER 60304 E ARROYO VISTA DRIVE ORACLE AZ 8562 MARCIA MCCHRYSTAL 60278 E ARROYO VISTA DRIVE ORACLE AZ 8562 GARY & DEBORAH KEENEY 60260 E ARROYO VISTA DRIVE ORACLE AZ 8562	ROBERT & TERESE DENSMORE	60360 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
JAMES & CATHY KAUFFMAN 60342 E ARROYO VISTA DRIVE ORACLE AZ 8562 GARY & DENISE BOYDSTUN 60332 E ARROYO VISTA DRIVE ORACLE AZ 8562 CHARLES & MARTHA REISER 60304 E ARROYO VISTA DRIVE ORACLE AZ 8562 MARCIA MCCHRYSTAL 60278 E ARROYO VISTA DRIVE ORACLE AZ 8562 GARY & DEBORAH KEENEY 60260 E ARROYO VISTA DRIVE ORACLE AZ 8562	HENRY & NANA KIRCHNER	60352 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
GARY & DENISE BOYDSTUN 60332 E ARROYO VISTA DRIVE ORACLE AZ 8562 CHARLES & MARTHA REISER 60304 E ARROYO VISTA DRIVE ORACLE AZ 8562 MARCIA MCCHRYSTAL 60278 E ARROYO VISTA DRIVE ORACLE AZ 8562 GARY & DEBORAH KEENEY 60260 E ARROYO VISTA DRIVE ORACLE AZ 8562	JAMES & CATHY KAUFFMAN	60342 E ARROYO VISTA DRIVE			85623
CHARLES & MARTHA REISER 60304 E ARROYO VISTA DRIVE ORACLE AZ 8562 MARCIA MCCHRYSTAL 60278 E ARROYO VISTA DRIVE ORACLE AZ 8562 GARY & DEBORAH KEENEY 60260 E ARROYO VISTA DRIVE ORACLE AZ 8562					85623
MARCIA MCCHRYSTAL 60278 E ARROYO VISTA DRIVE ORACLE AZ 8562 GARY & DEBORAH KEENEY 60260 E ARROYO VISTA DRIVE ORACLE AZ 8562					85623
GARY & DEBORAH KEENEY 60260 E ARROYO VISTA DRIVE ORACLE AZ 8562		****			
PARVIES & DE VEREI TIINTON 00242 E ARROYO VISTA DIKIVE UKACLE AZ 8502					
	JAMES & BEVERLI FIINTUN	60242 E AKKUYU VISTA DRIVE	UKACLE	AZ	83623

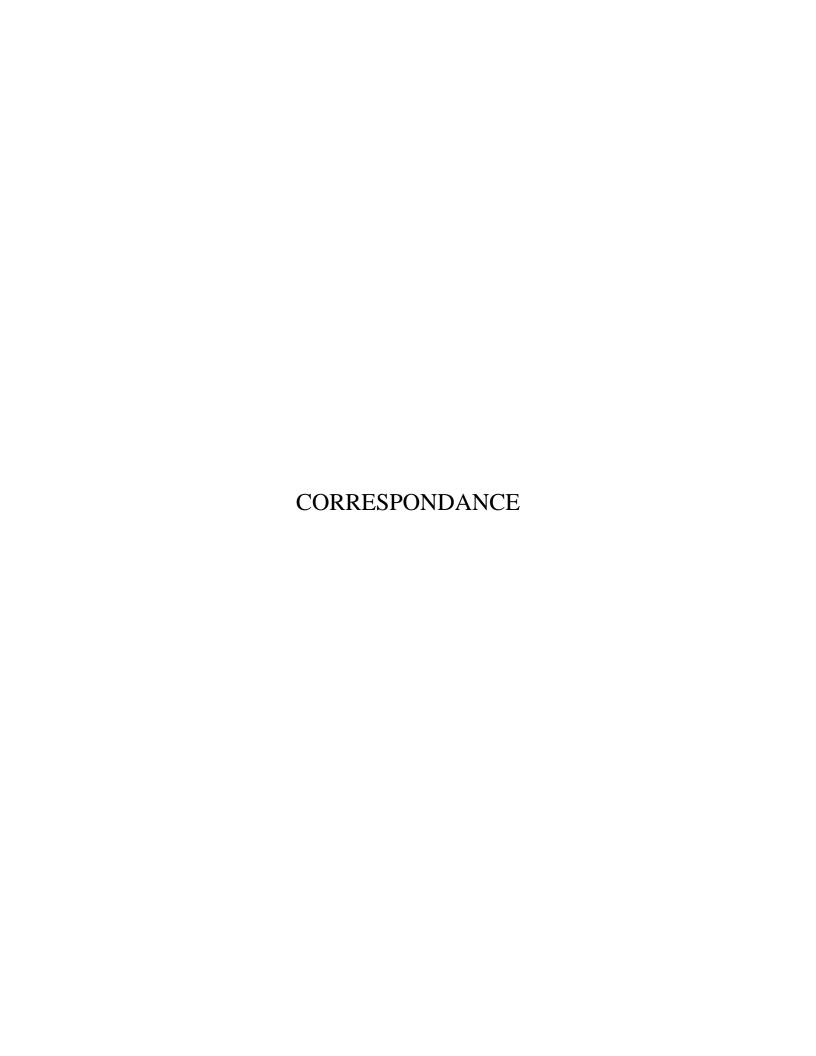
CYNTHIA HINDS	569 GILPIN STREET	DENVER	СО	80218
JOHN HESS	60204 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
SCOTT & JANICE LOWRY	60184 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
BERYL READDY	60160 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
CAMERON & JENNIFER DOWNEY	514 ADRIANA PLACE	AUBURN	CA	95603
SCOTT & PAMELA SAXON	60124 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
MARILYN HEASLEY	2820 APPALOOSA WAY	RICHLAND	WA	99352
MARK & SANDRA HOLDEN	60080 E ARRYO VISTA DRIVE	ORACLE	AZ	85623
DIANE SATTEN	60060 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
WILLIAM & JUDITH HENDERSON	60044 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
RICHARD & BEVERLY HANSON	60028 E ARROYO VISTA DRIVE	ORACLE	AZ	85623
JOHN & DALE FARLAND	32094 S AGARITA DRIVE	ORACLE	AZ	85623
KEN ROBINSON & DEENA REAM-ROBINSON	32078 S AGARITA DRIVE	ORACLE	AZ	85623
ERIC & RAINIE WARNER	60265 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
BRIAN & CYNTHIA GROVER	60241 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
ROBERT & LORRETTA JOHNSON	60219 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
BETTY THOMAS	9700 EDMONDSON DRIVE	DENTON	TX	76207
CHRISTOPHER JERMAN	60189 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
WETZEL & GEORGINE HURST	3430 E SUNRISE DRIVE STE 200	TUCSON	AZ	85718
WEIZEL & GUSKONK HORST TIMOTHY & DEBORAH MCCAULEY	60157 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
STEPHEN & SHARON GROTH	60137 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
SIEFILIA WE SHANON OROTH ALNESS FAMILY TRUST	2735 N CAMINO VALLE VERDE	TUCSON	AZ	85715
DOUGLAS & COY RINKE	60097 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
WILLIAM & SANDRA PAULIN	60077 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
MICHAEL & MARION EWING	60059 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
			SD	57104
CHARLES & ALYCE GROVER	3916 N POTSDAM AVENUE #1534	SIOUX FALLS	AZ	85623
MICHAEL & MARY ELLEN SMITH	60019 E ARROYO GRANDE DRIVE	ORACLE		
HOWARD & ADENE ZELKIN	32241 S SERVAL DRIVE	ORACLE	AZ	85623
JAMES & DOROTHY TAYLOR	32261 S SERVAL DRIVE	ORACLE	AZ	85623
JAMES & ARLENE KARP	32289 S SERVAL DRIVE	ORACLE	AZ	85623
ROBERT STANLEY	32240 S SERVAL DRIVE	ORACLE	AZ	85623
WILLIAM & CONNIE KLAPPENBACH	1826 INTERLACHEN ALCOVE	WOODBURY	MN	55125
SAM & ARDITH ROSSI	32280 S SERVAL DRIVE	ORACLE	AZ	85623
CHRISTINE UPDEGRAFF	32300 S SERVAL DRIVE	ORACLE	AZ	85623
RONALD & PHYLLIS FRENCH	32366 S EGRET TRAIL	ORACLE	AZ	85623
JOHN & SHARON HAMMOND	32374 S EGRET TRAIL	ORACLE	AZ	85623
KATHI & LARRY LAUTT	32382 S EGRET TRAIL	ORACLE	AZ	85623
MICHAEL & DIANA SHAW	5204 N BENNETT STREET APT 605	RUSTON	WA	98407
AUGUST & CAROL EPINA	32408 S EGRET TRAIL	ORACLE	AZ	85623
PHILIP BARISH	32426 S EGRET TRAIL	ORACLE	AZ	85623
JOHN MAKAR	503 CREEK VALLEY LANE	ROCKVILLE	MD	20850
JOHN & WILMA HOPKINS	32462 S EGRET TRAIL	ORACLE	AZ	85623
ROSS & FLORENCE MESSER	32480 S EGRET TRAIL	ORACLE	AZ	85623
LOUISE TYO	32500 S EGRET TRAIL	ORACLE	AZ	85623
DAVID & MARGARET YONKOVICH	32530 S EGRET TRAIL	ORACLE	AZ	85623
JOHN CUSTY	32552 S EGRET TRAIL	ORACLE	AZ	85623
KEITH & CORINE STRUDIVANT	32576 S EGRET TRAIL	ORACLE	AZ	85623
PAUL & JEAN STITCHA	32598 S EGRET TRAIL	ORACLE	AZ	85623
RUSS & TERESA HARDY	32622 S EGRET TRAIL	ORACLE	AZ	85623
DENIS & CYNTHIA HECK	32644 S EGRET TRAIL	ORACLE	AZ	85623
ROBERT & CAROLE ERICKSEN	32668 S EGRET TRAIL	ORACLE	AZ	85623
DENA YOCOM	32690 S EGRET TRAIL	ORACLE	AZ	85623
WILLIAM & DARLENE YOCUM	32714 S EGRET TRAIL	ORACLE	AZ	85623
JOSEPH & ROSEMARY DOUGLAS	32738 S EGRET TRAIL	ORACLE	AZ	85623
GARY & LOUISE BELL	32762 S EGRET TRAIL	ORACLE	AZ	85623
STEPHEN & SANDRA FREDRICKSON	59808 E ANKOLE DRIVE	ORACLE	AZ	85623
TISHA ATCHLEY	59782 E ANKOLE DRIVE	ORACLE	AZ	85623
BRUCE & ADAIR KELLY	59756 E ANKOLE DRIVE	ORACLE	AZ	85623
LYLE & CHERYL LUTTON	59732 E ANKOLE DRIVE	ORACLE	AZ	85623

JOSEPH & LINDA SENTIVANAC	59710 E ANKOLE DRIVE	ORACLE	AZ	85623
JOHN & DARLENE PATTERSON	59688 E ANKOLE DRIVE	ORACLE	AZ	85623
GARY & ELIZABETH TERRELL	59981 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
THOMAS & PATRICIA GRIGGS	59957 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
JOHN ARNOLD	59927 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
MICHAEL & LISA MOFFATT	59891 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
MARTIN & ALICE LENZINI	59869 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
RALPH MCLAUGHLIN	59853 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
PHILLIP & LYNNE WESCOTT	59837 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
DONALD & LINDA THOMSON	59819 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
GEORGE & DIANE SANDLIN	59801 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
MICHAEL UTSLER	59779 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
WM & JEAN PARFET	59760 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
CAMILLE & KENNETH HOVMILLER	59790 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
JAMES & JUDITH SMITH	59814 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
TERRELL & PHYLLIS PETTIJOHN	32186 S HANCOCK DRIVE	ORACLE	AZ	85623
MICAHEL & ELLEN SOSIN	32156 S HANCOCK DRIVE	ORACLE	AZ	85623
SCHLECKSER LIVING TRUST	32132 S HANCOCK DRIVE	ORACLE	AZ	85623
GARY & MARY HOOVER	32108 S HANCOCK DRIVE	ORACLE	AZ	85623
KAREN WALSER	32084 S HANCOCK DRIVE	ORACLE	AZ	85623
BRIAN & DENISE BAKER	32048 S HANCOCK DRIVE	ORACLE	AZ	85623
LUTZ & TOVE PAPE	32022 S HANCOCK DRIVE	ORACLE	AZ	85623
STEPHEN & MARY SCHNECK	31998 S HANCOCK DRIVE	ORACLE	AZ	85623
RAUL MALDONADO & NESTOR MOYANO	59741 E ARROYO BELLO DRIVE	ORACLE	AZ	85623
MICHELLE CARTER	59705 E ARROYO BELLO DRIVE	ORACLE	AZ	85623
ALAN & REBECCA CALL	59685 E ARROYO BELLO DRIVE	ORACLE	AZ	85623
JANICE OTT	59663 E ARROYO BELLO DRIVE	ORACLE	AZ	85623
SHEILA MUEHLING	59643 E ARROYO BELLO DRIVE	ORACLE	AZ	85623
JERALD & LINDA CHASE	59615 E ARROYO BELLO DRIVE	ORACLE	AZ	85623
PHILLIP & BETH COOPER	59585 E ARROYO BELLO DRIVE	ORACLE	AZ	85623
ROBERT & NANCY THORNTON	1229 AHLRICH AVENUE	ENCINITAS	CA	92024
JAMES BITTLE	32379 S CATTLE TRAIL	ORACLE	AZ	85623
MICHAEL & MIYUKI MCDONAGH	32515 S CATTLE TRAIL	ORACLE	AZ	85623
LOUIS & ELIZABETH	32541 S CATTLE TRAIL	ORACLE	AZ	85623
DAVID & ROBIN MUCK	32653 S CATTLE TRAIL	ORACLE	AZ	85623
ARNOLD & ZITA WRIGHT	32727 S CATTLE TRAIL	ORACLE	AZ	85623
DANIEL & PAMELA SIEG	32754 S CATTLE TRAIL	ORACLE	AZ	85623
DENISE SMITH	32732 S CATTLE TRAIL	ORACLE	AZ	85623
DONALD & MARY MANTZ	32710 S CATTLE TRAIL	ORACLE	AZ	85623
MICHAEL CONNOR	32692 S CATTLE TRAIL	ORACLE	AZ	85623
JAMES & MILDRED HARVEY	32672 S CATTLE TRAIL	ORACLE	AZ	85623
PATRICIO & MICHELE REYES	32650 S CATTLE TRAIL	ORACLE	AZ	85623
JOHN & BEVERLY HUFFMAN	32624 S CATTLE TRAIL	ORACLE	AZ	85623
WILLIAM & NORMA DUBOIS	61559 TAM MCARTHUR LOOP	BEND	OR	97702
JEFFERY & ERIN PRICCO	32546 S CATTLE TRAIL	ORACLE	AZ	85623
MARC & KATRINA LUNDGREN	32528 S CATTLE TRAIL	ORACLE	AZ	85623
RONALD SMOTHERMON	6908 SW MAURY PARK ROAD	VASHON	WA	98070
DAVID & LIZA FIRST	32440 S CATTLE TRAIL	ORACLE	AZ	85623
DAVID & PATRICIA NELSON	32416 S CATTLE TRAIL	ORACLE	AZ	85623
HAZEN & CINDY KREIS	32394 S CATTLE TRAIL	ORACLE	AZ	85623
EDWARD & FRANCES SAMAHA	32376 S CATTLE TRAIL	ORACLE	AZ	85623
			AZ	85623
RONALD & JANICE JUNKIN	32352 S CATTLE TRAIL	ORACLE	AL	
RONALD & JANICE JUNKIN DAVID & PAMELA ARTIBEY	32352 S CATTLE TRAIL 32334 S CATTLE TRAIL		AZ	85623
		ORACLE ORACLE ORACLE		
DAVID & PAMELA ARTIBEY	32334 S CATTLE TRAIL	ORACLE	AZ	85623
DAVID & PAMELA ARTIBEY GARY & PATRICIA KORSMEIER	32334 S CATTLE TRAIL 32314 S CATTLE TRAIL	ORACLE ORACLE	AZ AZ	85623 85623
DAVID & PAMELA ARTIBEY GARY & PATRICIA KORSMEIER BRUCE & DEBORAH RIEDERER	32334 S CATTLE TRAIL 32314 S CATTLE TRAIL 32274 S CATTLE TRAIL	ORACLE ORACLE ORACLE	AZ AZ AZ	85623 85623 85623
DAVID & PAMELA ARTIBEY GARY & PATRICIA KORSMEIER BRUCE & DEBORAH RIEDERER MARK & PAMELA WHIMS RONALD & KIMBERLY BARTNIKOWSKI	32334 S CATTLE TRAIL 32314 S CATTLE TRAIL 32274 S CATTLE TRAIL 32254 S CATTLE TRAIL 32232 S CATTLE TRAIL	ORACLE ORACLE ORACLE ORACLE	AZ AZ AZ AZ	85623 85623 85623 85623 85623
DAVID & PAMELA ARTIBEY GARY & PATRICIA KORSMEIER BRUCE & DEBORAH RIEDERER MARK & PAMELA WHIMS	32334 S CATTLE TRAIL 32314 S CATTLE TRAIL 32274 S CATTLE TRAIL 32254 S CATTLE TRAIL	ORACLE ORACLE ORACLE ORACLE ORACLE ORACLE	AZ AZ AZ AZ AZ	85623 85623 85623 85623

DDW/DD & JDW & GEDAVA GV	224 CC C C A TOTAL TO TOTAL TO	OD LOVE		0.5.622
EDWARD & LINDA STERMACH	32166 S CATTLE TRAIL	ORACLE	AZ	85623
BLAIR CORDER	32142 S CATTLE TRAIL	ORACLE	AZ	85623
JAMES LUBACH	32116 S CATTLE TRAIL	ORACLE	AZ	85623
KRISTI & KEITH MILLER	32094 S CATTLE TRAIL	ORACLE	AZ	85623
CLARENCE HINDMAN & JUDY BECKNER-HINDMAN	32064 S CATTLE TRAIL	ORACLE	AZ	85623
LARRY & MEDLINDA HAWKINS	59932 E ARROYO BELLO DRIVE	ORACLE	AZ	85623
JOHN & JAN OHMAN	59916 E ARROYO BELLO DRIVE	ORACLE	AZ	85623
STEPHEN & NANCY HOPKINS	59900 E ARROYO BELLO DRIVE	ORACLE	AZ	85623
GARY & SUSAN ENGEBRETSON	59880 E ARROYO BELLO DRIVE	ORACLE	AZ	85623
LYNN FIDLER	59860 E ARROYO BELLO DRIVE	ORACLE	AZ	85623
RANDY & MARGARET CRANE	59840 E ARROYO BELLO DRIVE	ORACLE	AZ	85623
JEFFREY & NEAL TYNAN	59822 E ARROYO BELLO DRIVE	ORACLE	AZ	85623
ROBERT & KAREN LONG	59802 E ARROYO BELLO DRIVE	ORACLE	AZ	85623
EDWARD & STERLYN ROBERTSON	59782 E ARROYO BELLO DRIVE	ORACLE	AZ	85623
KEVIN & SHEREE MCCARTHY	59764 E ARROYO BELLO DRIVE	ORACLE	AZ	85623
				85623
KEVIN & PATRICIA MUNLEY	59744 E ARROYO BELLO DRIVE	ORACLE	AZ	
PHILIP & KAREN SANDERMAN	59640 E ARROYO BELLO DRIVE	ORACLE	AZ	85623
TIMOTHY & DIANE CONNOLLY	59582 E ARROYO BELLO DRIVE	ORACLE	AZ	85623
THOMAS COTHRAN	59566 E ARROYO BELLO DRIVE	ORACLE	AZ	85623
LESTER & JILLANNE BROWN	31869 S BIGHORN DRIVE	ORACLE	AZ	85623
CONSTANCE GARRISON	31887 S BIGHORN DRIVE	ORACLE	AZ	85623
GREGORY & PATRICIA RULON	31907 S BIGHORN DRIVE	ORACLE	AZ	85623
THOMAS & MORGAN SQUIRES	31923 S BIGHORN DRIVE	ORACLE	AZ	85623
JOHN & CAROLYN BLAKE	31941 S BIGHORN DRIVE	ORACLE	AZ	85623
CLIFFORD HALL	31959 S BIGHORN DRIVE	ORACLE	AZ	85623
MICHAEL & ANN BURKART	31977 S BIGHORN DRIVE	ORACLE	AZ	85623
STEPHEN & CATHERINE LAIR	32001 S BIGHORN DRIVE	ORACLE	AZ	85623
STEPHEN & LINDA LEBRECHT	32017 S BIGHORN DRIVE	ORACLE	AZ	85623
ROGER & REBECCA MCHUGH	32035 S BIGHORN DRIVE	ORACLE	AZ	85623
RONALD & CELESTES STENHOUSE	32053 S BIGHORN DRIVE	ORACLE	AZ	85623
RONALD MACHADO	32069 S BIGHORN DRIVE	ORACLE	AZ	85623
THOMAS & RUTH MOORE	32085 S BIGHORN DRIVE	ORACLE	AZ	85623
MICHAEL & BONNIE ROACH	32097 S BIGHORN DRIVE	ORACLE	AZ	85623
LAWRENCE & MARY TIPTON	60428 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
RICHARD & BRIDGET BONNER	60404 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
MARK & JEAN MORGAN	60382 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
KENNETH & LUPE COOK	60362 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
SUZANNE SHIFF	60344 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
KENNETH KRONEN & RITA JAWORT-KRONEN	60326 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
CHRISTOPHER & MARCIA MAITIN	60308 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
MYRON & GERALDINE KOEN	60290 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
SONIA LEE	60272 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
STEVEN & TERI BAER	60254 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
JOHN & SUSAN LAND	60236 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
MICHAEL & PAMELA PAQUE	60218 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
MARK & CATHERINE JOHNSON	60200 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
ALASTAIR & HELGA STONE	60176 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
RICHARD & LISA WITHAM	60154 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
KERSTIN SEIFERT	60134 E ARROYO GRANDE DRIVE	ORACLE	AZ AZ	85623 85623
BILL & DEDE JONES		ORACLE	AZ AZ	85623 85623
	60114 E ARROYO GRANDE DRIVE			
JAMES & SUSAN COOK	31954 S MISTY BASIN ROAD	ORACLE	AZ	85623
STEVEN & MARY WRIGHT	31934 S MISTY BASIN ROAD	ORACLE	AZ	85623
HUGH & LINDA PARKER	31914 S MISTY BASIN ROAD	ORACLE	AZ	85623
GREGORY & DEBRA BYRNE	31894 S MISTY BASIN ROAD	ORACLE	AZ	85623
RUDY & TINA DOMINGUEZ	31874 S MISTY BASIN ROAD	ORACLE	AZ	85623
ROBERT & MICAELA GIBSON	2980 E 4TH AVENUE	DENVER	CO	80206
RAYMOND & OLIVIA HAHN	31834 S MISTY BASIN ROAD	ORACLE	AZ	85623
JOSEPH & SHARON MACHER	31816 S MISTY BASIN ROAD	ORACLE	AZ	85623
JOSEPHINE ZARA	31796 S MISTY BASIN ROAD	ORACLE	AZ	85623
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BRENDA ARMENIA	31776 S MISTY BASIN ROAD	ORACLE	AZ	85623
STUART & MARCIA GRANT	31758 S MISTY BASIN ROAD	ORACLE	AZ	85623
JEFF SILVER	31738 S MISTY BASIN ROAD	ORACLE	AZ	85623
GARRY & EMMA KNOWLING	31690 S GULCH PASS ROAD	ORACLE	AZ	85623
JOHN & LESLIE GORDON	31670 S GULCH PASS ROAD	ORACLE	AZ	85623
ROBERT & SANDRA KUCSMAS	31650 S GULCH PASS ROAD	ORACLE	AZ	85623
OLIVER RENNER & JANE MCKNIGHT	31953 S MISTY BASIN ROAD	ORACLE	AZ	85623
ROBERT & JOANN PRITCHARD	31915 S MISTY BASIN ROAD	ORACLE	AZ	85623
JOSEPH & SHERYL RUST	31883 S MISTY BASIN ROAD	ORACLE	AZ	85623
DAVID & EDITH KELLOGG	31865 S MISTY BASIN ROAD	ORACLE	AZ	85623
TIMOTHY & MAUREEN FOLEY	31843 S MISTY BASIN ROAD	ORACLE	AZ	85623
MICHAEL & LORI EBY	31825 S MISTY BASIN ROAD	ORACLE	AZ	85623
JANICE MARTIN	31805 S MISTY BASIN ROAD	ORACLE	AZ	85623
LAWRENCE & MARJORIE JACOX	31779 S MISTY BASIN ROAD	ORACLE	AZ	85623
TERRY & JANICE MIHORA	31739 S MISTY BASIN ROAD	ORACLE	AZ	85623
STEVEN PARKHURST	31816 S GULCH PASS ROAD	ORACLE	AZ	85623
HENRY & LINDA WOLOWICZ	31842 S GULCH PASS ROAD	ORACLE	AZ	85623
GEORGE & MELODY VAN ESS	60674 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
DOUGLAS PEARCE	60632 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
RONALD & THERESA FRASER	60614 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
MICHAEL & MARY REDGRAVE	60594 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
FRED & CHERYL JAVID	60572 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
ROBERT LIPIN	614 NASHUA STREET	MILFORD	NH	03055
DUANE & JAN BOYETT	32096 S BIGHORN DRIVE	ORACLE	AZ	85623
ERNEST & PRISCILLA WOLF	32066 S BIGHORN DRIVE	ORACLE	AZ	85623
KENNETH & REBECCA CRENSHAW	32050 S BIGHORN DRIVE	ORACLE	AZ	85623
GARY & GEORGIA GONZALES	32034 S BIGHORN DRIVE	ORACLE	AZ	85623
RICHARD & GRACE CALDWELL	59997 E AMUR LANE	ORACLE	AZ	85623
ROBERT & DIANNE JOHNS	59979 E AMUR LANE	ORACLE	AZ	85623
GRANT & KAREN SWANSON	59961 E AMUR LANE	ORACLE	AZ	85623
PAUL & DIANE FULLER	59943 E AMUR LANE	ORACLE	AZ	85623
ROBERT & ULRIKE LARTEY	59925 E AMUR LANE	ORACLE	AZ	85623
LARRY & TERRI STEINBERG	59907 E AMUR LANE	ORACLE	AZ	85623
MATTHEW DOUGHERTY	59887 E AMUR LANE	ORACLE	AZ	85623
GERALD & BARBARA MARTIN	59867 E AMUR LANE	ORACLE	AZ	85623
HARLON & MARY SCHLACHTER	59845 E AMUR LANE	ORACLE	AZ	85623
RICHARD & GLORIA IHRIG	59819 E AMUR LANE	ORACLE	AZ	85623
RICHARD & CHERI ALFREY	32119 S HANCOCK DRIVE	ORACLE	AZ	85623
DAVID & JEAN EIDT	32141 S HANCOCK DRIVE	ORACLE	AZ	85623
ROBERT & KAREN DERDZINSKE	32185 S HANCOCK DRIVE	ORACLE	AZ	85623
ROBERT HILLS	32211 S HANCOCK DRIVE	ORACLE	AZ	85623
ORO VALLEY CHURCH OF THE NAZARENE	500 W CALLE CONCORDIA	ORO VALLEY	AZ	85704
JOHN & JOYCE DEYOUNG	60010 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
ANTHONY & SUSAN WELLS	59986 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
GERALD & DIANA STRANGIO	59962 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
STANLEY FINKELSTEIN	59938 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
CHARLES & CYNTHIA CANNON	59914 E ARROYO GRANDE DRIVE	ORACLE	AZ	85623
JERRY & WONONA DAVIS	31870 S BIGHORN DRIVE	ORACLE	AZ	85623
JEFFREY & BAMBI GANSZ	13817 2ND AVENUE SW	BURIEN	WA	98166
ROBERT LAMAR & SUSAN HASTINGS	31914 S BIGHORN DRIVE	ORACLE	AZ	85623
JAMES MCMILLAN	31932 S BIGHORN DRIVE	ORACLE	AZ	85623
KENNETH LEVITT	31950 S BIGHORN DRIVE	ORACLE	AZ	85623
JOHN & EMAJEAN O BRIAN	59996 E AMUR LANE	ORACLE	AZ	85623
CHARLES & PRISCILLA MEIER	59978 E AMUR LANE	ORACLE	AZ	85623
STEPHEN & VICKIE ATKINSON	59960 E AMUR LANE	ORACLE	AZ	85623
THOMAS & CAROL ANDREWS	59928 E AMUR LANE	ORACLE	AZ	85623
THOMAS & MARIA MCDEMOTT	59894 E AMUR LANE	ORACLE	AZ	85623
ROBERT & TERESA TARLETON	59868 E AMUR LANE	ORACLE	AZ	85623
VICTOR & JEANNE NORDSTROM	59846 E AMUR LANE	ORACLE	AZ	85623
TOTOR & VENETICE HORDSTROW	57040 L AWON LAND	ORACLL	n.	05025

ROBERT & CAROL HENRY		32011 S HANCOCK DRIVE	ORACLE	AZ	85623
GARY & RONDA HAYES		31985 S HANCOCK DRIVE	ORACLE	AZ	85623
DANIEL & TRAIGHLI HARDY		P.O. BOX 874092	WASILLA	AK	99687
WALTER NASALIK		31919 S BAYBERRY COURT	ORACLE	AZ	85623
HAL & VICKI PEABODY		31941 S BAYBERRY COURT	ORACLE	AZ	85623
CURTIS & RITA WIEHLE		31965 S BAYBERRY COURT	ORACLE	AZ	85623
STEVEN & LISA CARLSON		31993 S BAYBERRY COURT	ORACLE	AZ	85623
RUBY & PAT HAWKINS		31996 S BAYBERRY COURT	ORACLE	AZ	85623
NANCY BURGERMEISTER		770 LINCOLN PLACE	BOULDER	CO	80302
RANDALL & LINDA RICHERT		31942 S BAYBERRY COURT	ORACLE	AZ	85623
PHILIP & FAYLENE LICTER		31920 S BAYBERRY COURT	ORACLE	AZ	85623
FRANK DOUSTEN	WATERMASTERS	P.O. BOX 837	PEORIA	AZ	85380
ALAN SCHULTZ	WITEKINGTERS	63653 E. HIGH POINT LN	TUCSON	AZ	85739
ALBERT TRICE		63963 E. ORANGEWOOD LN	TUCSON	AZ	85739
ANDREW RUSH		P.O. BOX 160	ORACLE	AZ	85623
BOB & PAT MOORE		35855 S. GOLF COURSE DR	TUCSON	AZ	85739
CATHERINE McCARTHY		P.O. BOX 8482	TUCSON	AZ	85738
CHRISTOPHER HOLLEMAN		P.O. BOX 8482	ORACLE	AZ	85623
CLIFF RUSSELL		HCR-01, BOX 4520	ORACLE	AZ	85623
DEAN PRICHARD		P.O. BOX 724	ORACLE	AZ AZ	85623
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DON & JOAN CERAGIOLI TRUSTEES		197 RAINBOW DR, #9760	LIVINGSTON	TX	77399
FRANK PIERSON		P.O. BOX 1059	ORACLE	AZ	85623
G D BICKEL		64348 E. WIND RIDGE CIRCLE	TUCSON	AZ	85739
GEORGE COLLINS		38899 S. MOONWOOD DR	TUCSON	AZ	85739-1298
GEORGE PECK		P.O. BOX 675	ORACLE	AZ	85623
GIOVANNI PANZA		P.O. BOX 8482	TUCSON	AZ	85738
HARRY E. AITKEN		P.O. BOX 995	ORACLE	AZ	85623
HECTOR CONDE, PE		11766 N ROBI PLACE	ORO VALLEY	AZ	85737
HERBERT L. HOFFMAN, PE		36395 S. WIND CREST DR	TUCSON	AZ	85739
HUGH & DORIS HAWK		37508 S. SPOON DR	TUCSON	AZ	85739
JAMES & GISELA MEAD		38051 S. DESERT HIGHLAND DR	TUCSON	AZ	85739
JAMES & SUZAN AUSTIN		P.O. BOX 581	ORACLE	AZ	85623
JIM A BALL		65855 E. DESERT RIDGE DR	TUCSON	AZ	85739
JOAN H COYNE		38243 S. GOLF COURSE DR	TUCSON	AZ	85739
JOEL & JUDY WYNER		36789 S. GOLF COURSE DR	TUCSON	AZ	85739
JOHN A. WASLEY		ACADIA RANCH BOX 330	ORACLE	AZ	85623
JOHN ERB		35963 S. WIND CREST DR	TUCSON	AZ	85739
JOHN KRAFT		64384 E GALVESTON LN	TUCSON	AZ	85739
KATHLEEN VANSISTINE		38511 S LAKE CREST DR	TUCSON	AZ	85739
LAURA VALADE PRICHARD		P.O. BOX 1412	ORACLE	AZ	85719
LINDA & MIKE MUNRO		35873 S. GOLF COURSE DR	TUCSON	AZ	85739
MARY ELLEN KAZDA		P.O.BOX 1059	ORACLE	AZ	85623
MICHAEL & NANCY LEVINE		38077 S. DESERT BLUFF	TUCSON	AZ	85739
MICHAEL BURNHAM		62129 E. NORTHWOOD RD	TUCSON	AZ	85739
RALPH & VICTORIA HALL		158 N. SUNSET LN	COOLIDGE	AZ	85128
ROBERT KATZENSON		64354 E GOLDEN SPUR CT	TUCSON	AZ	85739
ROBERT R. REYNOLDS		37870 S. BLACKFOOT DR	TUCSON	AZ	85739
ROBERT STUART		36841 S. GOLF COURSE DR	TUCSON	AZ	85739
ROSS HOPKINS		P.O. BOX 1156	ORACLE	AZ	85623-1156
SAL GRISAFFE		37407 S. STONEY CLIFF DR	TUCSON	AZ	85739
SUSAN WOODRUFF		HCR 4350	ORACLE	AZ	85623
TOM BEAN		5717 N. OVERFIELD RD	CASA GRANDE	AZ	85222
WEB & NICOLE PARTON		P.O. BOX 1296	ORACLE	AZ	85623
WED WINCOED PARTON		1.0. BOX 1270	ORACLE	<i>n</i> L	03023





Arizona Department of Environmental Quality



December 17, 2021 REF: HWP-EX3466

Governor

Mr. Steven Holland Chief Risk Officer University of Arizona PO Box 210300 Tucson, Arizona 85721

Re: Request for Additional Information; Administratively Incomplete Application for Hazardous Waste Permit; University of Arizona, Page-Trowbridge Ranch Landfill; EPA ID No. AZD 980 665 814; Place ID No. 3166; License Time Frames No. 92382.

Dear Mr. Holland:

The Arizona Department of Environmental Quality (ADEQ), Hazardous Waste Permits and Support Unit, received the above-referenced application and check #91031 for \$20,000.00 on December 15, 2021. Review of this application is subject to the requirements of the licensing time frames (LTF) statute under Arizona Revised Statutes (A.R.S.) § 41-1072 through § 41-1079 and the LTF rules under Arizona Administrative Code (A.A.C.) R18-1-501 through R18-1-525. Per A.A.C. R18-8-270(G)(1), the application will be processed at an hourly rate of \$136.00 per hour; the maximum fee for this application will not exceed \$400,000.00.

Per A.R.S. § 41-1074, ADEQ considered the application to be administratively incomplete on December 17, 2021. This notice suspends the time frame for the review of your application as of the date of this Notice. To resume the time frame, UA must submit the missing information to correct the deficiencies.

Please submit the missing items electronically by January 5, 2021. Enclosed is a copy of the administrative completeness review checklist indicating which items are deemed missing from the application. A summary of the deficiencies is also provided within this letter.

Summary of Administrative Deficiencies:

1. **Character Background Reference Forms** were not attached to the application. Please include character background reference forms for all signatories and key employees.

2. Part A Deficiencies:

- a. Item 7 (NAICS Code) has been left blank. You must include a primary NAICS code for the site or operator of the site.
- b. Item 9B is not filled out beyond the full name of the Legal Operator.
- c. Item 10A is incorrectly filled out for the site.
- d. Items 13 through 15 have been left blank. You must indicate a response to these questions.
- e. Item 17 has been left blank. Please indicate the appropriate response.

(520) 628-6733

December 17, 2021 Mr. Steve Holland REF: HWP-EX3466

Page 2 of 2

- f. The Part A Certification section was not signed by either the owner or the operator. This needs to be signed by both the owner and operator of the site. In place of the owner signature, you may attach a letter delegating signatory authority.
- 3. Groundwater Monitoring Appendix B Attachment D was not included in the electronic copy.
- 4. **Contingency Plan Arrangement with Local Authorities** was not attached to this application. The application states that these arrangement letters are in Appendix E, Exhibit 7, but only the cover page was found in both the original and electronic versions of this application.
- 5. **Part B Certification** does not include the owner's signature or a letter delegating signatory authority.

If you have any questions, please feel free to give me a call at (602) 771-8727 or contact me via email at orman.gav@azdeq.gov.

Sincerely,

Gav Orman, Environmental Engineering Specialist Hazardous Waste Permits & Support Unit

Waste Programs Division

ec: UA Representatives (Jeff Christensen, Miguel Delgado)

Wood Representatives (Douglas Fisher, Julie Hamilton)

Facility File

Jessica Kohls, HWPSU Supervisor



Hazardous Waste Treatment, Storage, and Disposal Facility Permit Administrative Completeness Review Checklist

Checklist Instruction

This checklist is provided as a guideline for ADEQ staff in performing administrative completeness reviews and to the applicant on what information ADEQ will need to administratively review a TSDF permit application. This checklist is designed to ensure the applicant provides information necessary to review the application.

Applicant: UofA – Page-Trowbridge Ranch Landfill	LTF: 92382			
Reviewer: Gav Orman	Date: 12/17/2021			
Item	Comments	Y	N	N/A
APPLICATION COMPONENTS				
One complete original and an electronic version of an		X		
application consisting of Parts A and B.				
Character Background Reference forms			X	
Post-Closure Permit Application Checklist		X		
Certification of compliance with the U.S. EPA RCRA				N/A
expanded public participation rule				
The applicant must have a U.S. EPA ID Number	AZD980665814	X		
assigned for the facility at the time of submittal				
An initial application submittal fee, \$20,000.00 for a new	#91031	X		
or renewal of an existing TSDF				
SECTION A. PART A GENERAL INFORMATION R				
Site name	"Page-Trowbridge Ranch"	X		
	in Part A; different naming			
	throughout docs. To be			
	aware of			
EPA ID number	AZD980665814	X		
Site location information		X		
Site contact and mailing address		X		
Legal owner and operator of the Site	Not completely filled out		X	
Type of regulated waste activity	Incorrectly filled out: PTRL is a VSQG with episodic generations and #7 is inaccurate for the site.		X	
Description of hazardous waste		X		
Notification of hazardous secondary material (HSM)		X		
activity				
Certification, signed by owner and operator	Part A form is NOT SIGNED – certification letter was attached, but this form needs signature as well.		X	
Facility permit contact		X		
Permit contact and operator mailing address and		X		
telephone number				
Facility existence date		X		

Date: 12/17/2021 Item	Applicant: UofA – Page-Trowbridge Ranch Landfill	LTF: 92382			
Listing of all other environmental permits received Nature of business Process codes and design capacities NAICS code for facility is missing in Part A – you need to have 1 NAICS code Map Facility drawing Nature of have 1 NAICS code NAICS cod	Reviewer: Gav Orman Date: 12/17/2021				
Nature of business Process codes and design capacities NAICS code for facility is missing in Part A – you need to have 1 NAICS code	Item	Comments	Y	N	N/A
Process codes and design capacities NAICS code for facility is missing in Part A — you need to have I NAICS code NAIC	Listing of all other environmental permits received		X		
missing in Part A – you need to have 1 NAICS code Map Facility drawing Photographs SECTION B. FACILITY DESCRIPTION General Description General Description General Description Surrounding land use Surface waters N/A Wind rose Map orientation Legal boundaries Access control Injection and withdrawal wells Buildings and other structures Drainage and flood control Location of SWMUs Groundwater Seismic requirements Traffic patterns SECTION D. PROCESS INFORMATION Containers Management Practices Secondary containment Run-on & run-off control Tanks Description and capacity Certified Integrity assessment Secondary containment Leak detection requirements N/A Secondary containment Leak detection requirements N/A Secondary containment Leak detection requirements N/A Other Waste Units SECTION D. GROUNDWATER MONITORING Groundwater monitoring exemption pursuant to Toul and NAICS code X V V V V V V V V V V V V	Nature of business		X		
Map	Process codes and design capacities	NAICS code for facility is		X	
Map		missing in Part A – you need			
Facility drawing		to have 1 NAICS code			
Photographs			X		
SECTION B. FACILITY DESCRIPTION	Facility drawing		X		
General Description	Photographs		X		
Flood plain Surrounding land use Surface waters Wind rose Map orientation Legal boundaries Access control Injection and withdrawal wells Buildings and other structures Buildings and other structures Buildings and flood control Location of SWMUs Groundwater Seismic requirements Waste Analysis Plan List of chemicals previously disposed in landfill provided. SECTION D. PROCESS INFORMATION Containers Management Practices Secondary containment Run-on & run-off control N/A Tanks Description and capacity Certified Integrity assessment Secondary containment Secondary containment Leak detection requirements N/A Secondary containment Secondary containment Leak detection requirements N/A Secondary containment Secondary containment Leak detection requirements N/A Secondary containment Seconda	SECTION B. FACILITY DESCRIPTION				
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Groundwater monitoring exemption pursuant to 270.14(c) N/A					
270.14(c)					N/A
A COMPANY MANY TO VIEW THE TABLE IT HAVE VANDED.	Groundwater monitoring plan, if not exempt		X		
Hydrogeological information x			1		
Well location, construction details x					

Applicant: UofA – Page-Trowbridge Ranch Landfill	LTF: 92382			
Reviewer: Gav Orman	Date: 12/17/2021			
Item	Comments	Y	N	N/A
Sampling and analysis plan (SAP)	Appendix B Attachment D is not provided in e-copy.		X	
Groundwater monitoring program (GWMP)		X		
Statistical procedures		X		
SECTION F. PROCEDURES TO PREVENT HAZAI	RDS			
Security procedures		X		
Inspection requirements for each containment system		X		
Management of incompatible Waste				N/A
Management of ignitable waste				N/A
Fire protection				N/A
SECTION G. CONTINGENCY PLAN				
Contingency plan coordinators	Will need to submit C1 mod to change emerg. Coordinators after change.	X		
Emergency actions		X		
Emergency equipment		X		
Arrangement with local authorities	Appendix E Exhibit 7 was not attached.		X	
Evacuation plan		X		
Reporting and recordkeeping procedures		X		
SECTION H. PERSONNEL TRAINING				
Training program outline		X		
Description of training		X		
SECTION I. CLOSURE/POST-CLOSURE PLANS A	ND FINANCIAL REQUIREM	ENT	ΓS	
Closure plans				N/A
Post-closure Plan		X		
Required notices		X		
Cost estimates for closure and post-closure				N/A
Financial assurance for closure and post-closure				N/A
Liability requirements				N/A
SECTION J. SOLID WASTE MANAGEMENT UNIT	ΓS			
Description of SWMUs		X		
Description of releases		X		
SECTION K. OTHER FEDERAL LAWS				
Demonstrate compliance with requirements of other		X		
applicable Federal laws				
SECTION L. PART B CERTIFICATION				
Part B Certification	Need owner signature or letter from owner delegating authority		X	
SECTION M. SUBPART AA PROCESS VENTS				
Subpart AA applicability				N/A
Design, operation, monitoring, and inspection				N/A
SECTION N. SUBPART BB EQUIPMENT LEAKS	1			
Subpart BB applicability				N/A
Equipment description				N/A
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Applicant: UofA – Page-Trowbridge Ranch Landfill	LTF: 92382			
Reviewer: Gav Orman	Date: 12/17/2021			
Item	Comments	Y	N	N/A
Monitoring program, recordkeeping and reporting				N/A
SECTION O. SUBPART CC AIR EMISSION STAND	ARDS			
Subpart CC applicability				N/A
List of units that are exempt				N/A
Tanks, surface impoundments, or containers				N/A
requirements				
Implementation plan				N/A
Monitoring plan				N/A
Reporting and recordkeeping requirements				N/A
SECTION P. EXPOSURE INFORMATION				
Only for surface impoundments and land disposal units		X		
SECTION Q. SUBPART X MISCELLANEOUS UNIT	S			
Subpart X applicability				N/A
Environmental performance standards				N/A
Monitoring, inspection, and reporting				N/A
SECTION R. CORRECTIVE ACTION				
Corrective Actions	SVE system was			N/A
	implemented as a corrective			
	action – remedy complete			
	and O&M manual included.			



Gavrielle Orman <orman.gav@azdeq.gov>

Page-Trowbridge Ranch Landfill EPA ID No. AZD 980 665 814

1 message

Hamilton, Julie <julie.hamilton@woodplc.com>

Wed, Jan 5, 2022 at 10:58 AM

To: "orman.gav@azdeq.gov" <orman.gav@azdeq.gov>

Cc: "Holland, Steven C - (sholland)" <sholland@arizona.edu>, "Delgado, Miguel - (mdelgado1)" <mdelgado1@arizona.edu>, "Tom, Heidi" <heidi.tom@woodplc.com>, "Fisher, Douglas" <douglas.fisher@woodplc.com>

Gav,

University of Arizona presents herein their response to your December 17, 2022 Request for Additional Information; Administratively Incomplete Application for Hazardous Permit; University of Arizona, Page-Trowbridge Ranch Landfill; EPA ID No. AZD 980 665 814; Place ID No. 3166; License Time Frames No. 92382. (Attached)

1. Character Background Reference Forms were not attached to the application. Please include character background reference forms for all signatories and key employees.

Background Reference Forms have been sent to ADEQ under separate cover.

2. Part A Deficiencies:

Revised Part A Application addressing items a through f below is attached. The revised Part A will also be added to the OneDrive link.

- a. Item 7 (NAICS Code) has been left blank. You must include a primary NAICS code for the site or operator of the site. This has been added.
- b. Item 9B is not filled out beyond the full name of the Legal Operator. This has been added.
- c. Item 10A is incorrectly filled out for the site. This has been corrected.
- d. Items 13 through 15 have been left blank. You must indicate a response to these questions. This has been added.
- e. Item 17 has been left blank. Please indicate the appropriate response. A response has been added.
- f. The Part A Certification section was not signed by either the owner or the operator. This needs to be signed by both the owner and operator of the site. In place of the owner signature, you may attach a letter delegating signatory authority.

 Signatures have been added.
- 3. Groundwater Monitoring Appendix B Attachment D was not included in the electronic copy.

The Post-Closure Period Expanded Groundwater Detection Monitoring Plan (Appendix B of Application) has been modified to Include the Quality Assurance Project Plan as an Attachment. The QAPP also includes updated quality plans from Turner Labs and Air Toxics. The QAPP is attached. The complete Appendix B is too large to email and will be added to the OneDrive link.

4. Contingency Plan – Arrangement with Local Authorities was not attached to this application. The application states that these arrangement letters are in Appendix E, Exhibit 7, but only the cover page was found in both the original and electronic versions of this application.

Exhibit 7 which is part of Appendix E is attached. The complete Appendix E will be added to the OneDrive link.

5. Part B Certification does not include the owner's signature or a letter delegating signatory authority.

Revised Certification is in progress, will be forwarded to ADEQ when it is available.

Please let us know if you have any additional questions. Please confirm receipt of this response.

Thanks, Julie

Julianne Hamilton, RG, PMP

Government Sector Lead – Mountain Region

Senior Project Manager

4600 E. Washington Street, Suite 600

Phoenix Arizona 85234

M 602.418.3950

Julie.hamilton@woodplc.com



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As a recipient of an email from a John Wood Group Plc company, your contact information will be on our systems and we may hold other personal data about you such as identification information, CVs, financial information and information contained in correspondence. For more information on our privacy practices and your data protection rights, please see our privacy notice at https://www.woodplc.com/policies/privacy-notice

4 attachments

PTRL - Part A Application Revised 1-3-22- FINAL SIGNED.pdf 1916K

HWP EX3466 Administrative Incompleteness LTF 92382 12-17-2021.pdf 692K

AttD_QAPP.pdf 12120K

Appendix_E_Exhibit_7_PTRL Contingency Plan.pdf 654K



Arizona Department of Environmental Quality



Governor

January 5, 2022

REF: HWP-EX3473

Mr. Steven Holland Chief Risk Officer University of Arizona PO Box 210300 Tucson, Arizona 85721

Re: Administratively Complete Application for Hazardous Waste Permit; University of Arizona, Page-Trowbridge Ranch Landfill; EPA ID No. AZD 980 665 814; Place ID No. 3166; License Time Frames No. 92382.

Dear Mr. Holland:

The Arizona Department of Environmental Quality (ADEQ), Hazardous Waste Permits and Support Unit, received the above-referenced application and check # 91031 for \$20,000.00 on December 15, 2021 and a re-submittal received January, 5, 2022. Review of this application is subject to the requirements of the licensing time frames (LTF) statute under Arizona Revised Statutes (A.R.S.) § 41-1072 through § 41-1079 and the LTF rules under Arizona Administrative Code (A.A.C.) R18-1-501 through R18-1-525. Per A.A.C. R18-8-270(G)(1), the application will be processed at an hourly rate of \$136.00 per hour; the maximum fee for this application will not exceed \$400,000.00.

Per A.R.S. § 41-1074, ADEQ considered the application to be administratively complete on January, 5, 2022. The application is now subject to substantive review with a time frame of 376 business days. Enclosed is a copy of the administrative completeness review checklist and a tentative proposed permit processing schedule for the application.

If you have any questions, please feel free to give me a call at (602) 771-8727 or contact me via email at orman.gav@azdeq.gov.

Sincerely,

Gav Orman, Environmental Engineering Specialist Hazardous Waste Permits & Support Unit

Waste Programs Division

ec: UA representatives (Jeff Christensen, Miguel Delgado)

Wood representatives (Douglas Fisher, Julie Hamilton)

Jessica Kohls, HWPSU Supervisor

(520) 628-6733

January 5, 2022 Mr. Steve Holland REF: HWP-EX3473 Page 2 of 2

University of Arizona; Page-Trowbridge Ranch Landfill – Permit Processing Schedule LTF #92382

Project Step	Project Due Date (Anticipated)
Submittal Date	12/15/2021
Administrative Review Completeness	01/05/2022
Substantive Review 1 Complete (with draft Notice of Deficiencies (NOD))	01/26/2022
Substantive Review 2 Complete (with draft NOD, subject to Final NOD)	02/22/2022
Complete Pre-Draft Permit	03/24/2022
Review of Pre-Draft Permit Complete	04/07/2022
Prepare Draft Permit	04/14/2022
Start of 45-day Public Comment Period	04/21/2022
End of Public Comment Period	06/05/2022
Draft Response to Comments	06/10/2022
Final Response to Comments	06/10/2022
Grant Final Permit (Issuance pending payment of any outstanding fees)	06/13/2022

Note: Anticipated due dates are tentative to align with internal schedules and ideal project review times. If a formal NOD is required, or other delays occur, these dates are subject to change.



Hazardous Waste Treatment, Storage, and Disposal Facility Permit Administrative Completeness Review Checklist

Checklist Instruction

This checklist is provided as a guideline for ADEQ staff in performing administrative completeness reviews and to the applicant on what information ADEQ will need to administratively review a TSDF permit application. This checklist is designed to ensure the applicant provides information necessary to review the application.

Applicant: UofA – Page-Trowbridge Ranch Landfill	LTF: 92382			
Reviewer: Gav Orman	Date: 01/05/2022			
Item	Comments	Y	N	N/A
APPLICATION COMPONENTS				
One complete original and an electronic version of an		X		
application consisting of Parts A and B.				
Character Background Reference forms		X		
	Received 12/29/21			
Post-Closure Permit Application Checklist		X		
Certification of compliance with the U.S. EPA RCRA				N/A
expanded public participation rule				
The applicant must have a U.S. EPA ID Number	AZD980665814	X		
assigned for the facility at the time of submittal				
An initial application submittal fee, \$20,000.00 for a new	#91031	X		
or renewal of an existing TSDF				
SECTION A. PART A GENERAL INFORMATION R				
Site name	"Page-Trowbridge Ranch"	X		
	in Part A; different naming			
	throughout docs. To be			
EPA ID number	aware of AZD980665814	+		
Site location information	AZD980003814	X		
		X		
Site contact and mailing address Legal owner and operator of the Site	Corrected in 1/5/22	X		
Legal owner and operator of the Site	submittal	X		
Type of regulated waste activity	Corrected in 1/5/22	X		
	submittal			
Description of hazardous waste		X		
Notification of hazardous secondary material (HSM)		X		
activity				
Certification, signed by owner and operator	Corrected in 1/5/22	X		
	submittal			
Facility permit contact		X		
Permit contact and operator mailing address and		X		
telephone number		1		
Facility existence date		X		
Listing of all other environmental permits received		X		
Nature of business		X		

Applicant: UofA – Page-Trowbridge Ranch Landfill LTF: 92382					
Reviewer: Gav Orman	Date: 01/05/2022				
Item	Comments	Y	N	N/A	
Process codes and design capacities	Corrected in 1/5/22 submittal	X			
Map		X			
Facility drawing		X			
Photographs		X			
SECTION B. FACILITY DESCRIPTION					
General Description		X			
Flood plain		X			
Surrounding land use		X			
Surface waters				N/A	
Wind rose		X			
Map orientation		X			
Legal boundaries		X			
Access control		X			
Injection and withdrawal wells	Not updated since 2012 for off-site wells.	X			
Buildings and other structures		X			
Drainage and flood control		X			
Location of SWMUs		X			
Groundwater		X			
Seismic requirements				N/A	
Traffic patterns				N/A	
SECTION C. WASTE CHARACTERISTICS					
Waste Analysis Plan	List of chemicals previously disposed in landfill provided.			N/A	
SECTION D. PROCESS INFORMATION					
Containers				N/A	
Management Practices				N/A	
Secondary containment				N/A	
Run-on & run-off control				N/A	
Tanks				N/A	
Description and capacity				N/A	
Certified Integrity assessment				N/A	
Secondary containment				N/A	
Leak detection requirements				N/A	
Other Waste Units		<u> </u>		N/A	
SECTION E. GROUNDWATER MONITORING					
Groundwater monitoring exemption pursuant to 270.14(c)				N/A	
Groundwater monitoring plan, if not exempt		X			
Hydrogeological information		X			
Well location, construction details		X			
Sampling and analysis plan (SAP)	QAPP provided in 1/5/22 submittal	X			
Groundwater monitoring program (GWMP)		X			

Applicant: UofA – Page-Trowbridge Ranch Landfill	LTF: 92382			
Reviewer: Gav Orman	Date: 01/05/2022			
Item	Comments	Y	N	N/A
Statistical procedures		X		
SECTION F. PROCEDURES TO PREVENT HAZA	RDS			
Security procedures		X		
Inspection requirements for each containment system		X		
Management of incompatible Waste				N/A
Management of ignitable waste				N/A
Fire protection				N/A
SECTION G. CONTINGENCY PLAN				
Contingency plan coordinators	Will need to submit C1 mod to change emerg. Coordinators after change.	X		
Emergency actions		X		
Emergency equipment		X		
Arrangement with local authorities	Corrected in 1/5/22 submittal	X		
Evacuation plan		X		
Reporting and recordkeeping procedures		X		
SECTION H. PERSONNEL TRAINING				
Training program outline		X		
Description of training		X		
SECTION I. CLOSURE/POST-CLOSURE PLANS A	AND FINANCIAL REQUIREM	IEN'	ΓS	
Closure plans				N/A
Post-closure Plan		X		
Required notices		X		
Cost estimates for closure and post-closure				N/A
Financial assurance for closure and post-closure				N/A
Liability requirements				N/A
SECTION J. SOLID WASTE MANAGEMENT UNI	TS			
Description of SWMUs		X		
Description of releases		X		
SECTION K. OTHER FEDERAL LAWS				
Demonstrate compliance with requirements of other applicable Federal laws		X		
SECTION L. PART B CERTIFICATION				
Part B Certification	Updated version incoming	X		
SECTION M. SUBPART AA PROCESS VENTS		,		
Subpart AA applicability				N/A
Design, operation, monitoring, and inspection			<u> </u>	N/A
SECTION N. SUBPART BB EQUIPMENT LEAKS				
Subpart BB applicability				N/A
Equipment description				N/A
Monitoring program, recordkeeping and reporting				N/A
SECTION O. SUBPART CC AIR EMISSION STAN	DARDS			
Subpart CC applicability				N/A
List of units that are exempt				N/A

Applicant: UofA – Page-Trowbridge Ranch Landfill	LTF: 92382			
Reviewer: Gav Orman	Date: 01/05/2022			
Item	Comments	Y	N	N/A
Tanks, surface impoundments, or containers				N/A
requirements				
Implementation plan				N/A
Monitoring plan				N/A
Reporting and recordkeeping requirements				N/A
SECTION P. EXPOSURE INFORMATION				
Only for surface impoundments and land disposal units		X		
SECTION Q. SUBPART X MISCELLANEOUS UNIT	S			
Subpart X applicability				N/A
Environmental performance standards				N/A
Monitoring, inspection, and reporting				N/A
SECTION R. CORRECTIVE ACTION				
Corrective Actions	SVE system was			N/A
	implemented as a corrective			
	action – remedy complete			
	and O&M manual included.			



Arizona Department of Environmental Quality



February 17, 2022 HWP EX3485

Miguel Delgado Chief Risk Officer Department of Risk Management Services University of Arizona P.O. Box 210300, Tucson, Arizona 85721-0300

RE: Substantive Notice of Deficiency (NOD); Application for a Hazardous Waste Post-Closure Permit; University of Arizona, Page-Trowbridge Ranch Landfill; EPA ID No. AZD 980 665 814; Place ID 3166; LTF No. 92382

Dear Mr. Delgado:

The Arizona Department of Environmental Quality (ADEQ) has reviewed the University of Arizona's (UA) Hazardous Waste Post-Closure Permit Application for Page-Trowbridge Ranch Landfill (PTRL) initially submitted December 15, 2021 with the administrative revisions received on January 5, 2022. ADEQ's review of this application is subject to the requirements of the licensing time frames (LTF) statute under Arizona Revised Statutes (A.R.S) §41-1072 through §41-1079 and the LTF rules under Arizona Administrative Code (A.A.C) R18-1-501 through R18-1-525. ADEQ is reviewing this application within the Substantive Review time frame and is making this Comprehensive Request for Additional Information (CRAI) under Arizona Revised Statute (A.R.S) § 41-1075(A). ADEQ has found deficiencies within the application. ADEQ sent a first Draft Substantive Notice of Deficiencies on January 11, 2022, with no revised response sent. ADEQ sent a second Draft Substantive Notice of Deficiencies on January 31, 2022, with no revised response sent. ADEQ is sending this notice that the license time frame for the application is suspended as of the date of this notice. UA must respond to this notice on or before March 21, 2022 to resume the time frame.

Required Information

ADEQ's comments on the permit application are attached to this letter. State law requires UA to submit a complete response to this NOD with the final full permit application in accordance with A.R.S. §49-922 and A.A.C. R18-8-270 and R18-8-271. All information submitted in support of the revised application must be accompanied by a certification statement in accordance with A.A.C. R18-8-270.A (40 CFR §270.11).

Consequences of Failure to Submit Required Information

Failure to submit a complete response to this NOD by the deadline may result in delay or denial of UA's application.

February 17, 2022 Mr. Miguel Delgado HWP-EX3485 Page 2 of 19

Recommendations

At UA's convenience, ADEQ is available for technical assistance to further discuss the attached comments prior to the due date.

How to Submit

UA must submit the response using the following methods:

- (a) Electronic Copy Submit an electronic copy of the revised application parts and response to comments to Gav Orman.
- (b) The electronic copy should include the Adobe Acrobat file and the tracked changes Word document. Providing the tracked changes copy of the document will increase ADEQ's ability to re-review component pieces quickly.
- (c) Once UA's response to comments has been accepted, and the permit application pieces are finalized and approved, ADEQ will request that UA submit new hard copy versions (via mail or hand delivery). The delivery should be addressed to: Gav Orman, Hazardous Waste Permits and Support Unit, 1110 West Washington Street, Phoenix, Arizona 85007.

If you have any questions, please contact Gav Orman at (602)-771-8727 or via email at orman.gav@azdeq.gov.

Sincerely,

Gav Orman, Permit Writer

Hazardous Waste Permits and Support Unit (HWPSU)

Waste Programs Division

Ec: Facility File

Steve Holland, volunteer, UA

Jeff Christensen, Environmental Programs Manager, UA

Douglas Fisher, Wood

Julie Hamilton, Wood

Jessica Kohls, Manager (HWPSU)

Attachments

- ADEQ's Finalized Comments on UA's Permit Application,
- Proposed Soil Vapor Borings for Updated HHRA, and
- Confidentiality Request Form.

DRAFT SUBSTANTIVE NOTICE OF DEFICIENCY HAZARDOUS WASTE PERMIT APPLICATION UNIVERSITY OF ARIZONA, PAGE-TROWBRIDGE RANCH LANDFILL EPA ID NO. AZD 980 665 814

REQUIRED INFORMATION

State law requires the University of Arizona (UA) to submit the following information so that the Arizona Department of Environmental Quality (ADEQ) can finalize the review and administration of UA's permit request for Page-Trowbridge Ranch (PTRL). Sections and Appendix names refer to them as presented in the Permit Application.

Section 1 – RCRA Part A Form [Unaddressed]

- **1. Part A Form, Site Contact:** The site contact change to Miguel Delgado is noted. Due to this change, Miguel will need to be added to the myDEQ account associated with PTRL. Guidance on shifting Responsible Corporate Officer duties and rights to him can be found here.
- **2. Part A Form, 8700-23 ("Hazardous Waste Permit Part A Form")**: This form is missing from the application and needs to be included for the administrative record. This form can be found in the last two pages of the document linked here.

Section 2 – Facility Description [Unaddressed]

- **3. Section 2, Page 2-1, First Paragraph**: Change the first sentence to say "The Page-Trowbridge Ranch Landfill (Page Ranch, PTRL,...)" to establish a naming convention throughout each attachment and to match the formal site name given in the Part A forms.
- **4. Section 2, Page 2-1, Second Paragraph, Final Sentence:** Application states that approximately 103 homes and a clubhouse have been constructed in the nearby community. This is the same as the 2012 permit and it is ADEQ's understanding that significant development has occurred since then. Please update the section to account for any development that has occurred between 2012 and 2021.
- **5. Section 2, Page 2-1, Sixth Paragraph:** Please include the missing parentheses after (DOT 17CI).
- **6. Section 2, Page 2-2, Fourth Bullet Point:** Appendix A (Construction Documentation Report for Final Cover System for Cells A and B) states that the stormwater culvert pipes are 35-inch by 24-inch, but Section 2 indicates that they are 36-inch by 22-inch. Clarify which is correct. If Appendix A is correct, update Section 2 to match. If Section 2 is correct, please provide explanation for the discrepancy.

<u>Section 3 – Groundwater Monitoring</u> [Unaddressed]

7. Section 3, General: Update title to say "Groundwater and Soil Vapor Monitoring" since the section addresses both.

- **8. Section 3, General:** Establish a naming convention for PTRL prior to referring to it as "Page Ranch" in section 3.1.1 and Page Landfill in section 3.7.1.
- 9. Section 3, General: The organization of section 3.3 through 4 is difficult to follow. Please indicate the years for each section and make it very clear what the current practices are for the monitoring program. It would be acceptable to summarize past phases of monitoring and detections into one section to ensure that the current monitoring program takes up the largest portion of this document. Try to clearly differentiate sections discussing past analyses versus sections discussing the current monitoring program applicable to this permit renewal. Discussion regarding past analyses and monitoring phases should come first, and the document should end on the current monitoring program and reporting requirements.
- **10. Section 3, Page 3-1, Section 3.1.1:** Has there been an updated well survey since 2011? Please update this list of nearby wells to be accurate for 2021.
- **11. Section 3, Page 3-3, Section 3.1.2.1:** Provide clarity on the filter packs. What natural material are they made of?
- **12. Section 3, Page 3-4, Section 3.1.2.4:** Update section to include analysis of data up to 2021 (as shown in Table 2).
- **13. Section 3, Page 3-5, Section 3.3:** Add the years interim status monitoring occurred at the beginning of this section to clearly identify when the samples were taken.
- **14. Section 3, Page 3-5, Section 3.3.3:** The results from 1984 to 1997 are not included in Appendix H. Appendix H only contains data from 2012 to 2021. Either remove this reference, or include the data in Appendix H.
- **15. Section 3, Page 3-7, Section 3.4:** Please include the range of dates for this "post-closure period" at the beginning for clarity and context of the data in this section. Additionally, the current program is still considered post-closure detection monitoring, so it may be more accurate to say "past post-closure monitoring." Alternatively, keep this section as is and include data up to 2021.
- **16. Section 3, Page 3-9, Section 3.5.1:** Edit first sentence for clarity, along the lines of "Prior to landfill closure, a near surface soil vapor survey was conducted by HGC in July 1988 to determine the potential for contaminants from the landfill to migrate to the area surrounding the landfill."
- **17. Section 3, Page 3-12, Section 3.6.2:** Include the radionuclides and the associated analysis methods in the bulleted list for clarity. Expand on which radionuclides the samples will be analyzed for (i.e. alpha emitters, gamma, etc.). Additionally, in recent

- monitoring reports, EPA Method 504.1 has been included to analyze for ethylene dibromide, 1,2-dibromo-3-chloroprane, and 1,2,3-trichloropropane. Please include that in the list of analytes. Update the same list of analytes and methods in Section 3 and in Appendix B.
- **18. Section 3, Page 3-19, Section 3.7.2.4**: Change "very low" to "low". Very is subjective, which can be misleading.
- **19. Section 3, Page 3-19, Section 3.7.3**: Please indicate which laboratory method (i.e. EPA method) will be used for each of the laboratory analyses as shown in Section 3.6.2 or reference the section where the EPA methods were identified.
- **20. Section 3, Page 3-19, Section 3.7.3:** Earlier in Section 3.6.2, testing for radionuclides was indicated, but that analysis has been excluded in this section. Include radionuclides in this list of analyses.
- **21. Section 3, Page 3-20, Section 3.7.4.2:** It would be more accurate to say that the justification for background water quality and alert levels is presented in Section 3.6.3 and 3.6.4 and that the values themselves are presented in Tables 6a and 7.
- **22. Section 3, Page 3-20, Section 3.7.4.4:** Text indicates that monitoring for analytes will change from twice a year or annual, as applicable, to twice that frequency. Clarify which analytes are tested annually? All previously discussed analyses are on a semi-annual schedule. Please clarify what is tested annually, or correct this section (and related sections in Appendix B and Appendix B Attachment D) to only show the semi-annual piece.
- **23. Section 3, Page 3-20, Section 3.7.4.4:** Where is retesting described above? The text only indicates the increased monitoring if an alert level is exceeded, but does not describe the requirement of retesting in case of an AWQS exceedance. Please include dialogue explaining how retesting will be done in the event of an exceedance or anomalous reading.
- **24. Section 3, Page 3-20, Section 3.7.4.4:** Remove "if necessary" from the last bullet of this section. While an exceedance of an alert level will result in increased monitoring and ADEQ consultation, the exceedance of an AWQS will require a meeting with ADEQ to, at a minimum, discuss the exceedance and remedial actions proposed along with the path forward.
- **25. Section 3, Page 3-21, Section 3.7.5.2:** ADEQ recommends adding radioactivity field monitoring or radionuclide soil gas monitoring on a frequency of once every two years. Radon gas is a possible decay product of multiple radionuclides found in the landfill and could pose a risk to nearby residents if preferential pathways are formed.

- **26. Section 3, Page 3-23, Section 4:** Rather than having statistical analyses "if necessary", please edit the report to include a statistical analysis on the soil vapor extraction (SVE) system's influent data every two years or describe when statistical analysis would occur. This way there is a periodic check to determine if VOC concentrations being removed from the landfill are increasing or decreasing significantly.
- **27. Section 3, Page 3-23, Section 4:** Please indicate where data and reports will be submitted. Electronic data deliverables will be submitted to ADEQ for inclusion in our water quality database. The semi-annual reports should be emailed to ADEQ via the hazwastepermits@azdeq.gov general inbox for review by the permit writer.

Section 4 – Procedures to Prevent Hazards [Unaddressed]

- **28. Section 4, Page 4-1, Gates:** This section indicates that there are three rolling gates at the facility. The site map provided as Figure 1 only shows two rolling gates. Please correct this or clarify the location of the third gate.
- **29. Section 4, General**: There is no discussion regarding the power supply for the SVE system. Are there procedures in place to be alerted when the SVE system shuts off unexpectedly or loses power from the solar panels/batteries? What protocols occur to ensure the SVE system's operation in this instance? More detailed descriptions on responses to power failure may be appropriate to discuss elsewhere, but it may be worthwhile to include a small section here discussing the alert systems in place.

Additionally, please include discussion on what will be done to prevent overheating or fires from the SVE system, even if it is to reference a related section added to the Operation and Maintenance (O&M) manual or the contingency plan.

<u>Section 5 – Contingency Plan</u> [Unaddressed]

30. Section 5: Please use the full name "Page-Trowbridge Ranch Landfill" before establishing a shortened version of it.

<u>Section 6 – Post-Closure Plan</u> [Unaddressed, Comment 33 is New]

- **31. Section 6, Page 6-1, Inspection Plan:** It's ADEQ's understanding that UA personnel perform monthly inspections during "Monsoon Season," typically from July to September, in addition to the quarterly inspections. These monthly inspections during months where intense storms occur improve the resiliency of PTRL and ADEQ would like to see this continue. Please include these inspections in the inspection plan, or provide explanation for why UA believes quarterly inspections are sufficient.
- **32. Section 6, Page 6-4, Notation in Deed:** In the last paragraph, it indicates that if UA wishes to remove wastes, then a permit modification will be requested. Update this section to state that if UA wishes to remove waste from the landfill, they must consult ADEQ and submit a permit modification prior to any work beginning.

33. Section 6, General: In the 2018 permit modification, submitted by UA, to update the restrictive covenant, the Post-Closure Plan was updated to include UA's actions to protect ingress and egress to the PTRL. This section is missing from this permit application. Please add discussion regarding maintaining ingress and egress for the Eastern entrance of PTRL.

<u>Section 9 – References</u> [Unaddressed]

34. Section 9, General: If specific references are necessary for each section of the main application, please include the references at the end of the appropriate section. There will not be a separate references page in the permit, so it's important to include the appropriate references in the relevant sections or appendices.

<u>Tables</u> [Unaddressed]

35. Table 8: Remove "Draft" from table.

Figures [Unaddressed]

- **36. Figure 4**: This flood plain map is from 2011. Please confirm that there is not an updated version of this map. If there is an updated version since 2011, submit the new map.
- **37. Figures 6a through 6t:** Add a line to these graphs indicating the alert level for each constituent to add value to the trendlines shown.

<u>Appendix B – Post-Closure Period Expanded Groundwater Detection Monitoring Plan</u> [Unaddressed]

- **38. Appendix B, Table of Contents**: Fix formatting.
- **39. Appendix B, General:** Please include some discussion about handling investigation derived waste (IDW) or decontaminating reusable equipment. This can include a reference to the Quality Assurance Project Plan (QAPP) where IDW and decontamination is discussed in more detail and a brief summary if necessary.
- **40. Appendix B, Page 1, Section 1.2**: This section begins abruptly and the organization is confusing. It may be beneficial to put the last paragraph and bullet points first, and then close with the justification of not adding more wells.
- **41. Appendix B, Page 2, Section 1.2:** The SVE O&M manual shows that samples are also taken from the SVE system's effluent to ensure functionality. Please include the effluent samples in this section or a reference to other operational samples being taken as described in the SVE O&M manual.
- **42.** Appendix B, Page 2, Section 1.3.1: Same comment as number 41.

- **43. Appendix B, Page 3, Section 1.3.4:** Add radionuclides to the bulleted list along with the other analyses to ensure those samples are taken. Include the specific analytes and methods used.
- **44. Appendix B, Page 4, Section 1.4:** Remove "as required by Part IV of the Post-Closure Permit" and leave in that the inspections are contained in the Post-Closure Inspection and Maintenance Plan. Remove the last sentence and add (Appendix D) to the end of the first sentence.
- **45. Appendix B, Page 4-5, Section 2.1.1:** Include other safety equipment in this list or an adjacent list (i.e. safety glasses, goggles, etc.) and indicate safety or emergency equipment brought on sampling trips (as identified in the Site Health and Safety Plan or Contingency Plan). This could be done by referencing the appropriate sections where safety equipment is discussed.
- **46. Appendix B, Page 7, Section 2.2.2:** If a good cannister is between 26 in Hg and 30 in Hg, why are the cannisters only replaced if the reading is less than 20 in Hg? Please provide explanation for the difference.
- **47. Appendix B, Page 9, Section 3.2.4:** Please add "Well Purging" to the title of this section to clearly indicate that purging requirements can be found here.
- **48. Appendix B, Page 11, Section 3.3:** Sentence starting "Samples are collected.." seems to be missing a word or two.
- **49. Appendix B, Page 11, Section 3.3:** Be sure to make note of which leak detection compound is used on the field log in case the compound accidently contaminates the samples.
- **50. Appendix B, General Organization:** The usability of this plan would improve if the sections were organized in the order they are performed (i.e. soil vapor monitoring prior to groundwater monitoring, MW-2 and MW-5 soil vapor protocols before the other monitoring points, etc.)
- **51. Appendix B, Page 13, Section 3.3.4:** Are field blanks collected for groundwater? Field blanks are collected for soil vapor, but there was no mention of blanks, other than the trip blank, for groundwater. ADEQ recommends including field blanks for all analyses.
- **52. Appendix B, Page 16, Section 4.6:** Rather than performing the statistical analysis (i.e Mann-Kendall) if necessary, ADEQ recommends doing the analysis on the SVE system's influent data (and including it in the monitoring report) every two years, or on a UA recommended schedule. Doing so will allow for early detection of increasing trends.

- **53. Appendix B, Page 16, Section 4.6:** Please include where reports will be submitted in this section. Electronic data deliverables (EDD) will be submitted to ADEQ's water quality database and the full reports will be sent to ADEQ via hazwastepermits@azdeq.gov for review.
- **54. Appendix B, Attachment D (QAPP):** Update distribution sheet to remove Anthony Leverock and include Gav Orman for ADEO.
- **55. Appendix B, Attachment D (QAPP), Page 1:** Update date of the Expanded Groundwater Detection Monitoring Plan (EGDMP) to reflect the most recent update.
- **56. Appendix B, Attachment D (QAPP), Page 4:** If an alert level is exceeded twice consecutively, monitoring should be increased and the well should be sampled again immediately. The section indicates that "retesting" will be done, but it is not explained. Please include the explanation in this section. Ensure this section reflects changes made in Section 3 and Appendix B regarding this response (Comment #22, 23, and 24).
- **57. Appendix B, Attachment D (QAPP), Page 10, Section 6.2.2:** While same day soil vapor sampling is ideal and should be the goal, if something occurs that prevents UA from sampling the same day, please indicate that UA will take soil vapor samples as soon as possible (within 2 days).
- **58. Appendix B, Attachment D (QAPP), Page 10, Section 6.2.3:** Include discussion regarding other IDW (i.e. disposable sampling equipment, disposable safety equipment).
- **59. Appendix B, Attachment D (QAPP), Page 10, Section 6.2.5:** Is dedicated equipment specific to each well? If not, any equipment that moves and touches the sampling ports between wells should be, at a minimum, rinsed off with DI water prior to being used on a different well to prevent any potential contamination. Explain why only the first three feet of the sounder is rinsed off prior to starting work. Is the rest of the sounder unexposed between sampling events?
- **60. Appendix B, Attachment D (QAPP), Page 16, Section 8.1:** Include discussion of field blanks here. Earlier in the document, it is indicated that a field blank is taken for SVE samples, but that is not shown in this section. Clarify if a field blank is taken for groundwater, and, if not, explain why.
- **61. Appendix B, Attachment D (QAPP), Page 21, Section 15:** Update authorized signatory for PTRL submittals to ADEQ.
- **62. Appendix B, Attachment D (QAPP), Page 22, Section 15.4:** Include how information is submitted to ADEQ for the report. EDD submitted for the water quality database and then the semi-annual report is sent to hazwastepermits@azdeq.gov for review.

- **63. Appendix B, Attachment D (QAPP), Table 1:** Update ADEQ portion of this section. The hazardous waste permits unit supervisor is Jessica Kohl (602-580-6092), change project hydrogeologist to project manager or permit writer and have Gav Orman (602-771-8727).
- **64. Appendix B, Attachment D (QAPP), Table 2:** Format table to make sure "representativeness" is on one line.

Appendix D – Post-Closure Inspection and Maintenance Plan [Unaddressed]

- **65. Appendix D, Page 1, Introduction:** Same concern as comment #31. Please include the monthly inspections from July to September, or provide justification otherwise.
- **66. Appendix D, Page 1, Introduction:** Sentence two discusses the groundwater monitoring wells. Please add language discussing inspection and maintenance of the SVE system.
- **67. Appendix D, Page 1, Access Roads**: The last sentence of this section is confusing. Please re-word for clarity along the lines of "Vegetation density will be controlled by the UA personnel to allow access by emergency and maintenance vehicles."
- **68. Appendix D, Page 1, Perimeter Fencing and Signs**: Alter first sentence to include "...presence of excessive vegetation around entrance gates and fencing." While removing excessive vegetation around the gates is vital for access, excessive vegetation around the fence itself can degrade the fence's integrity.
- 69. Appendix D, Page 1, Survey Monuments: Change "tempering" to "tampering."
- **70. Appendix D, General:** There is no discussion regarding the inspection and maintenance of the SVE system. Please include the SVE system's inspection and maintenance after the Groundwater Monitoring System section. If SVE inspection and maintenance is described in detail elsewhere (i.e. the O&M manual), please reference that in the added section.
- **71. Appendix D, Inspection Report**: Please include the SVE system on this inspection report, or provide an additional attachment for the SVE system's inspection.

<u>Appendix E – Post Closure Contingency Plan [Unaddressed]</u>

72. Appendix E, General: If UA wishes to have personal information for the emergency coordinators (home address, phone number, etc.) redacted from the public copy of the contingency plan, please submit the confidentiality request form (transmitted with this letter and in the pre-application package). Additionally, provide a version of the contingency plan with those pieces redacted for inclusion in the public copy of the permit and application.

- **73. Appendix E, Page 1, Section 1.A:** The third paragraph states that the cells in Units A and B were approximately 10 feet deep. However, Section 2 (Facility Description) indicates that the cells were 15 feet deep. Please clarify which is more accurate and correct the appropriate reference.
- **74. Appendix E, Page 2, Section 1.A:** This section states that there are three sets of gates, but Exhibit 2 only shows two entrances to the site. Please correct, or clarify the location of the third gate.
- **75. Appendix E, Page 2, Section 1.A:** Please include the SVE monitoring wells alongside the groundwater monitoring wells.
- **76. Appendix E, Page 2, Section 2:** Correct the page numbers for where the telephone numbers are listed. The Emergency Coordinators are listed on Pages 3 to 4, not 5 to 6 or 7 to 8.
- 77. Appendix E, Page 2, Section 2: Remove semi-colon from sentence beginning "The decision to implement..."
- **78. Appendix E, Page 2, Section 2:** Correct the page number for contingency plan implementation.
- **79. Appendix E, Page 3, Emergency Coordinators:** With Miguel Delgado taking over as Chief Risk Officer, ADEQ recommends updating the emergency coordinator list during the permit renewal, rather than after issuance. Updating the emergency coordinator list after permit issuance would require a Class 1 Modification.
- **80. Appendix E, Page 3, UA Police Department:** Please include the area code for the non-campus phone line to ensure full understanding.
- **81. Appendix E, Page 4, Section 3:** Fix formatting for 1b.
- **82. Appendix E, Page 4, Section 3:** Does UA have a guideline or definition for what constitutes a significant storm event requiring contingency plan implementation?
- **83. Appendix E, Page 4, Section 3:** It seems like a word is missing from 2a.
- **84. Appendix E, Page 4, Section 4.A:** This paragraph could use additional clarity. Please rewrite this paragraph to ensure the local notification paths are clear and concise. From the current paragraph, it's unclear why the Tucson Area Agricultural Centers' Director is a contact (are they close to the site?). Additionally, the sentence starting with "Personnel that are familiar..." is confusing. Does it mean that personnel on-site at the time of the incident need to wait for clearance prior to leaving the site? What if it's a fire and they

- need to evacuate prior to an emergency coordinator response? What if they are unfamiliar with the site? The page numbers where agencies can be found also seems to be incorrect.
- **85. Appendix E, Page 4-5, Evacuation Plan**: Would an evacuation still be initiated if the situation poses a threat to human health, and not just life? Clarify what the predetermined location is or include a map with the evacuation zone(s) highlighted. Would it be more beneficial to evacuate upwind of the facility to prevent exposure to airborne contaminants? Additionally, is there a system in place to notify the nearby communities in case further evacuation is necessary?
- **86. Appendix E, Page 5, Section 4.C:** Capitalize the first word of bullet g.
- **87. Appendix E, Page 6:** Fix formatting.
- **88. Appendix E, Page 6, #4:** Clarify if this means re-contacting the fire department and sheriff to update them with the new information.
- **89. Appendix E, Page 7, Section 4.F:** The sentence beginning "All releases of materials..." should be edited to remove "if possible" from the end. If the released materials cannot be identified, the release should continue to be treated as extremely hazardous.
- **90. Appendix E, Page 9, Emergency Equipment:** Is any emergency equipment brought with personnel for regular site visits (i.e. inspection or sampling visits)? ADEQ recommends ensuring that any personnel going to the site have an emergency response bag with them.
- 91. Appendix E, Page 9: Missing parentheses at end of the last sentence.
- **92. Appendix E, Page 10, Contingency Plan Update, Distribution, and Control:** Please include (or be aware) that updates to the contingency plan must be submitted to ADEQ as a Class 1 Modification Request per 40 CFR Part 270.42 Appendix 1. Most changes to the contingency plan are simply informational modifications (no fee required), but changes to emergency equipment, emergency response, etc. require Director Approval (fee required).
- **93. Appendix E, Exhibit 3:** For recordkeeping purposes, obtain an updated resource allocation letter that acknowledges Miguel Delgado as the new Chief Risk Officer.
- **94. Appendix E, Exhibit 5:** Does UA have regular PPE inspections in place to ensure that the equipment is in good working order prior to usage?
- **95. Appendix E, Exhibit 5:** Are radios frequently brought to the site? In case of cell phone failure, it may be beneficial to bring a secondary communication pathway due to the remote nature of PTRL.

- **96. Appendix E, Quick Reference Guide**, **Section 5**: On number 1b, correct to say, "A fire that has originated..."
- **97. Appendix E, Quick Reference Guide, Section 5:** On 2a, capitalize the first letter of the sentence.
- **98. Appendix E, Quick Reference Guide, General:** This guide may benefit from having a stepwise list or "checklist" on who to contact and what to respond to first. This could be done to summarize the dialogue found in the full Contingency Plan.

<u>Appendix F – Site Health and Safety Plan</u> [Unaddressed]

- 99. Appendix F, Page 1, Purpose: Change "extraction soil vapor" to "extract soil vapor."
- **100. Appendix F, Page 2, Authorized Entry**: Alter sentence 3 to say "The SHSO for each visit will be determined prior to the visit," to reduce redundancy.
- 101. Appendix F, Page 2, Authorized Entry #3: Alter final sentence to say "...SHSO shall consult with the supervisor to correct the missing equipment prior to proceeding with the work." This provides clarity to whether work will continue with missing equipment.
- **102. Appendix F, Page 3, Authorized Entry:** Clarify the communication strategy for the SHSO when they are the only person on-site. Will they have a cell phone? Do they alert other personnel prior to entering the site?
- **103. Appendix F, Page 3, Heat Stress:** Clarify how potable water will be readily available. Is this brought by the personnel?
- **104. Appendix F, Page 6, Chemical Hazards**: Last sentence of paragraph 1 is confusing. Please edit for clarity along the lines of: "Chemicals used for site maintenance, such as vegetation control, must be used only by trained applicators, in accordance with manufacturing specifications and safe handling techniques. Use and disposal provisions from the safety data sheets (SDS) must be followed and SDSs must be available or maintained on-site."
- **105. Appendix F, Page 6, Chemical Hazards:** Change "Treated soil vapor contains some VOCs." to "Treated soil vapor contains lower levels of VOCs." The current wording is vague and can be misleading.
- **106. Appendix F, Page 7, Chemical Hazards:** In regards to oxygen level monitoring, are oxygen levels only measured prior to entry into the SVE areas, or do personnel wear a continuous percent oxygen monitor, with an alarm, during the work? ADEQ recommends having at least one continuous percent oxygen monitor with an alarm to alert personnel to a potentially hazardous condition within confined spaces. Please clarify.

- **107. Appendix F, Page 7, Chemical Hazards:** Abbreviate "Soil Vapor Extraction" system to SVE as previously done in document.
- **108. Appendix F, Page 7, Chemical Hazards**: The photo-ionization detectors (PIDs) have a shorter lifetime. Are personnel trained on how to test and calibrate the PIDs prior to use to ensure they are in working order? Similarly, is there a protocol in place to ensure the PIDs are reading accurately prior to relying on them in the field?
- **109. Appendix F, Page 7, Chemical Hazards Air Monitoring Action Levels:** The alert level for combustible gas is indicated as less than 5% of the lower explosive limit (LEL). Standard is to alert at less than 10% of the LEL for increased safety. Please edit the table to reflect the 10% or provide justification for why 5% is acceptable.
- 110. Appendix F, Page 8, Fence: Correct formatting issue with 45-degree barbed wire note.
- **111. Appendix F, Page 8, Gate**: Text indicates three rolling gates, but Figure 1 shows two rolling gates. Please correct to reflect the actual number of entrances to the site or clarify where the third gate is located.
- **112. Appendix F, General, 3.0 Hazard Assessment:** There is no discussion regarding fire hazards (either natural or induced by on-site equipment). Please include discussion on where fires may occur and what is in place to prevent them. There should be fire response discussion in the contingency plan. At a minimum, an acknowledgement of this additional hazard and how it is prevented would be beneficial here.

Appendix G – SVE O&M Manual [Unaddressed]

- **113. Appendix G, Page 1:** Alter the first sentence to say "A solar-powered soil vapor extraction (SVE) system was designed and constructed at the Page-Trowbridge Ranch Landfill (PTRL)," for clarity.
- **114. Appendix G, Page 1:** Edit the second and third sentence for accuracy, "This Operations and Maintenance (O&M) Manual acts as a guide for the O&M of the SVE system. The SVE system is located between landfill units A and B in the center of the PTRL."
- **115. Appendix G, General:** Can UA provide a summary table with the operational parameters (i.e. minimums and maximums, values that trigger additional actions, etc.)? Adding this type of summary table to the O&M manual would increase usability of the document.
- **116. Appendix G, Page 1:** It's indicated that PID monitoring was removed in this revision. Please indicate what was removed and the reasoning behind it. Per the Site Health and Safety Plan, PID monitoring is required during certain maintenance activities within the

- SVE system. Additionally, PID monitoring is still included on the maintenance sheet in Attachment F.
- **117. Appendix G, Page 1, Section 1.1:** Indicate what is not allowed to exceed 5.5 lbs/day (i.e. VOCs). Please attach calculations showing that the SVE system does not exceed this threshold using recent data (within last 3 years).
- **118. Appendix G, General:** Does the SVE system include alarms and alerts for emergency shut-offs, exceedance of operational parameters, etc.? If yes, please include dialogue about the alerts in this O&M manual. If no, please indicate why not and include a dialogue explaining how the current alert system is resilient enough to not require immediate alarms for exceedances.
- **119. Appendix G, General:** If adsorber efficiency increases with decreasing process temperatures, has there been consideration about building an enclosure or shade structure for the exposed components?
- **120. Appendix G, Batteries:** Does the battery array have a monitoring system on it to ensure proper operation? Are there alerts in case of battery failure or anomalous readings? What is the protocol for when the batteries fail and can't operate the pumps? Please include this information either in Appendix G or within an appropriate other location.
- **121. Appendix G, Page 7, Section 2.5.4:** Alter first sentence beginning "The Outback.." for clarity. The "state-of-the-art relative" makes the sentence a bit muddled and difficult to interpret.
- **122. Appendix G, General:** Were the solar panels and electrical system designed or reviewed by a certified electrical engineer?
- **123. Appendix G, General:** Clarify how operational parameters like pressure, battery voltage, amperage, etc. are recorded. Is monitoring continuous, or only during inspections?
- **124. Appendix G, Section 3, General:** Is there a range of acceptable system efficiencies? Is there a protocol for optimizing the system if performance drops below the minimum allowable efficiency? If this is not already in place, ADEQ recommends developing a range of allowable efficiencies along with a protocol for response and including that in this O&M manual.
- **125. Appendix G, Section 3.5:** Clarify what the normal operation is. When is the SVE system on versus off? How is that determined? Does UA run the system for specific months, if so which months?

- **126. Appendix G, Page 21, Section 4:** The paragraph beginning with "Usually," is in direct contradiction with the site health and safety plan unless the Site Health and Safety Officer is the person performing the inspection and maintenance activities. Please correct this sentence to clarify that at least two technicians need to be on-site during maintenance activities (even if only one technician is performing the maintenance, there should be a second person on-hand to shut off anything in case of emergency).
- **127. Appendix G, Page 22, Section 4.1.2:** In regards to the solar array maintenance, please clarify if a specialist is brought out to clean the solar panels in case personnel attempts are not sufficient. Dirty panels can significantly reduce the efficiency of the system, and the current phrasing of this paragraph does not indicate if additional actions are taken.
- **128. Appendix G, Page 29 (and throughout), Section 6.3:** The section indicates that the SVE system will minimally operate for 3 months on and then 9 months off. While knowing the minimum operation is valuable, ADEQ believes the system should run above the minimum for a more conservative approach. Please update this section to indicate the typical operation and that, at a minimum, the system will operate for 3 months a year.

ADEQ recommends adding another 3 months of operation (i.e. 3 months on, 3 months off, 3 months on, 3 months off) to increase the time for responses to an identified release. With releases detected within 5-10 years at the minimum operation, releases could be detected much faster with an increased operation schedule, allowing for faster response times. Please edit the SVE O&M manual to reflect this, or provide justification for solely operating at the minimum to be approved at ADEQ's discretion. Additionally, please provide what months the system is intended to be operational.

- **129. Appendix G, Page 29 (and throughout), Section 6.3**: Pulsed operation of SVE systems is an acceptable technique for steady state removal. Please provide statistical analyses (using the Mann-Kendall Method) to show that there is not a significant upward trend for any contaminants of concern being treated (influent and effluent).
- **130. Appendix G, Page 30:** The spent carbon profile expired in 2011. Please indicate when the profile will be updated. If the profile has been updated since 2011, update this section.
- **131. Appendix G, Attachment E:** Has there been updated data collection and calculations for the solar intensity/solar panel efficiency since 2011? If yes, attach the updated calculations. If no, provide explanation for why this data is still valid for 2022 or explain how UA plans to update the calculations.
- <u>Appendix H Historical Groundwater Analytical Results</u> [Unaddressed]
 - **132. Appendix H, General:** Add highlights to any result that exceeds an alert level (if applicable).

133. Appendix H, Table H-16: Correct formatting to stop the table from being cut-off.

<u>Appendix I – Summary of Soil Vapor and SVE System Analytical Data</u> [Unaddressed]

- **134. Appendix I, General:** Add highlights to any result that exceeds an alert level (if applicable)
- **135. Appendix I, General:** Make sure formatting for each table is correct and that no portion of the tables are cut off (i.e Table 1-12)
- **136. Appendix I, General:** Please include monitoring data (from the soil vapor monitoring wells) from 2012 to 2021 like Appendix H for the groundwater monitoring wells. This can be interspersed with the influent/effluent data or can be all together after the influent/effluent data.

<u>Appendix K – Human Health Risk Assessment [Unaddressed]</u>

137. Human Health Risk Assessment, General: ADEQ requests that UA provides an updated Human Health Risk Assessment (HHRA) for PTRL. If UA does not have a recent HHRA (updated within the last two years) that addresses data gaps from the 2009 report and updates the exposure model, ADEQ will include this requirement as a schedule of compliance order in the issued permit. This will allow UA to begin the update process and submit the updated HHRA after permit issuance as a permit modification. The permit modification would be subject to LTF requirements, including review time and contractor review costs. This schedule of compliance order will be in accordance with R18-8-270.A (40 CFR §270.32(b)(2) and §270.33) and will dictate when UA is required to submit the scope of work, workplans and project schedule, draft HHRA, and the final, certified HHRA.

UA requested that ADEQ provide general items to include in the updated HHRA. At a minimum, ADEQ would like to see the following addressed:

- (a) An analysis of data gaps from the 2009 report. This can be attached to the scope of work submittal for review.
- (b) Analysis of the past 10 years of routine soil vapor and groundwater monitoring data (including statistical analysis via Mann-Kendall Method, or equivalent methods).
- (c) Analysis of new or potential exposure pathways (construction trenches for utilities, potential for groundwater being used as drinking water, updated well surveys, displacement of soil via high wind events, etc.)
- (d) Update the exposure model and risk calculations using up to date data (including data taken during the HHRA update).
- (e) Sampling and analysis of VOC emissions from SVE vents.

- (f) Sampling and analysis of the groundwater wells for PFAS alongside the routine groundwater monitoring.
- (g) Sampling and analysis of soil vapor in shallow soils along the perimeter of the landfill for VOCs and radioactivity (radioactivity via soil vapor analysis or via field testing).
 - O ADEQ proposes that soil vapor samples be taken at a depth of 5 to 10 ft below ground surface on approximately 100 ft centers around the perimeter of the landfill. Four additional samples should be taken at the interior of the site, near the landfill units, for comparison to perimeter values. A map with ADEQ's proposed conceptual sampling locations is transmitted with this letter, overlaid on the previous soil vapor study for comparison.
 - o Include dialogue comparing the updated shallow soil vapor samples to the ones taken in 2007. Are concentrations increasing or decreasing at the landfill's perimeter? Is the SVE system operating sufficiently enough to prevent further releases at the perimeter and be protective of human health if development was to occur closer to the landfill?
- (h) Samples and analyses should account for seasonal variability that has potential to affect soil gas VOC concentrations (including temperature and moisture content of shallow soils). ADEQ recommends doing the above sampling and analyses twice (i.e. spring and fall or summer and winter).

If UA disagrees with any of the above proposed updates, please recommend an alternative approach with a technical explanation detailing why the alternate approach is equally sufficient in identifying potential human health and environmental risks. If UA has any questions regarding ADEQ's reasoning behind the proposed updates, please reach out to Gav Orman via phone at (602) 771-8727 or via email at orman.gav@azdeq.gov.

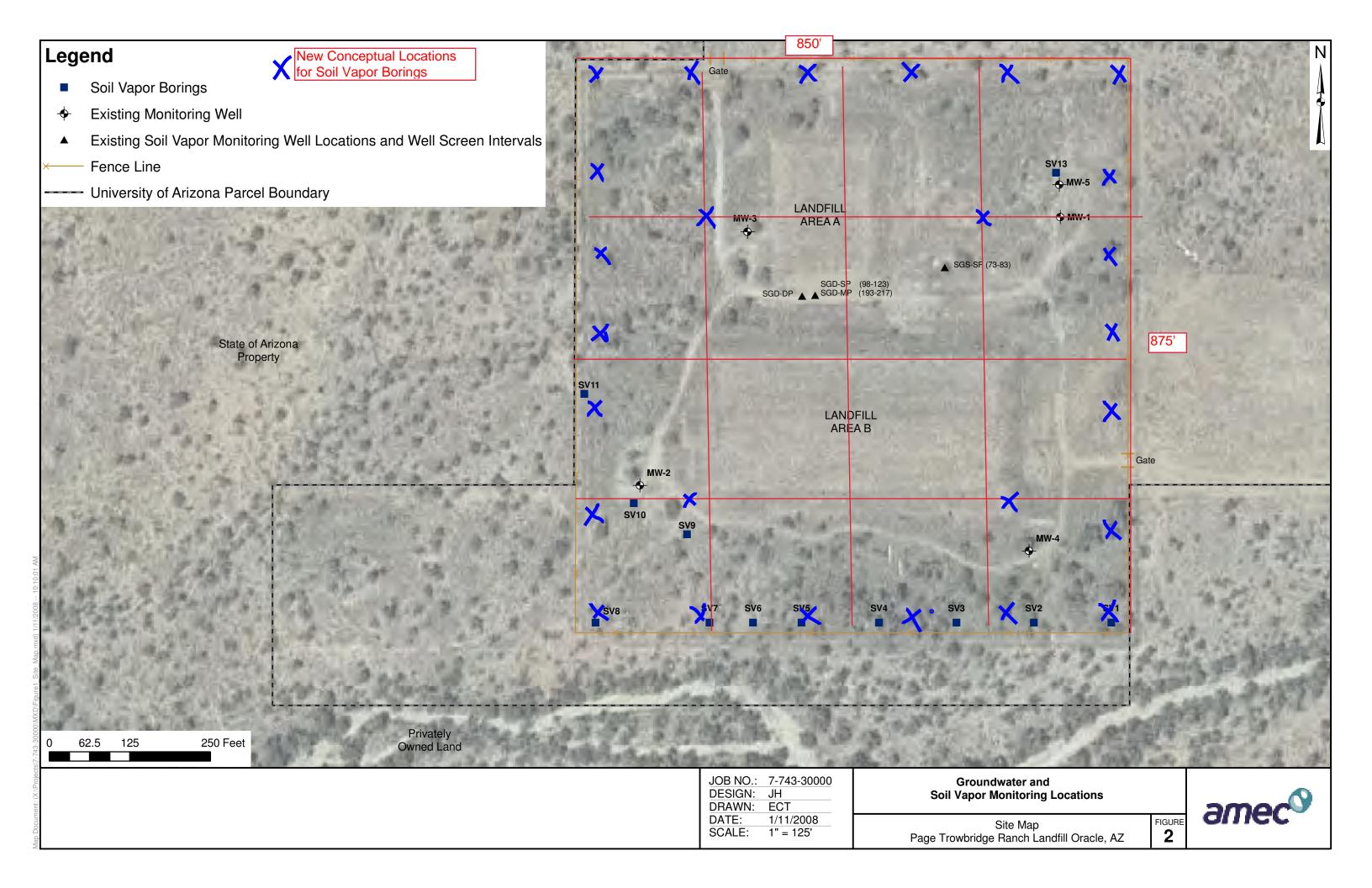
<u>Appendix L – Development of Operational Parameters for SVE System [Unaddressed]</u>

- **138. Appendix L, General:** Was this document adapted and updated from the one done by AMEC? First paragraph feels misleading if this is a repeat of the same document produced by AMEC, please indicate what has been updated and make sure it's very clear when this work was done. If it was updated and adapted by Wood in 2021, please change the old information to be in past tense.
- **139. Appendix L, General:** If this document was updated, please alter the text of Section 2.0 to be accurate for the current state. Particularly, the sentence "Operating the SVE system is not required by the current RCRA permit.." should be altered to show that the SVE system is required per the 2012 permit.

- **140. Appendix L, Page 12:** The last sentence before Section 5.3 states 9.2 scfm, but should either state 9.25 scfm or 9.3 scfm. Please correct.
- **141. Appendix L, Table 2:** Are hydraulic conductivity values provided in this table the actual values (identified based on data taken), or are they theoretical/estimated? Please clarify.
- **142. Appendix L, Figures**: Remove "Draft" from figures and other tables

Appendix Q – Training Plan [Unaddressed]

- **143. Appendix Q, Section 4.d**: Correct formatting of second paragraph.
- **144. Appendix Q, Exhibit 2 and 3:** These exhibits were not included in the electronic copy. Please add them to the document.





Confidentiality Request Form

You are hereby notified that you may assert a claim of confidentiality regarding the documents(s) you are supplying to the Arizona Department of Environmental Quality (ADEQ). In order to claim confidentiality you must complete Sections I, II, and III of this form. If you claim confidentiality ADEQ will make a determination on your claim and advise you in writing within ten (10) working days. If you do not claim confidentiality, these documents will be considered public records and be immediately available to the public.

Facili	ity	EPA ID number
I.	I do do not Complete Sections II and I	claim confidentiality for these records. III below if you are claiming confidentiality.
II.		dentiality is claimed for all or part of the documents(s). If for which confidentiality is claimed.
III.	Please state reason for con	nfidentiality. Ain information sensitive to homeland security.
	Explanation:	an information sensitive to nomerana security.
	Document(s) conta Explanation:	ain trade secrets

	Document(s) contain information that if m	nade public is likely to cause substantial
	harm to person's competitive position. Explanation:	
	Explanation.	
	Other reason	
	Explanation:	
IV.	Additional Comments	
		_
Dogn	onsible Party Signature, Title	Date
rcsp	onside Larry Signature, Title	Date

If you have any questions regarding this form please contact the ADEQ Office of Administrative Counsel at (602) 771-2212 or toll free at (800) 234-5677 Ext 771-2212.



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http://risk.arizona.edu/

March 21, 2022

Ms. Gav Orman- Hazardous Waste Permits & Support Units Arizona Department of Environmental 1110 West Washington Street Phoenix, AZ 85007

Re: Response to Substantive Notice of Deficiency (NOD) Application for a Hazardous Waste Post-Closure Permit Dated February 17, 2022
Page Trowbridge Ranch Landfill- EPA ID No. AZD 980 665 814

Dear Ms. Orman:

The University of Arizona is pleased to submit the attached response to the February 17, 2022 Substantive Notice of Deficiency. The revised application including a redlined version of the revised documents will be transmitted electronically via a OneDrive link. A copy of our response has also been included as *Appendix T* to the application.

Please reach out if you have additional questions or concerns.

Sincerely,

Miguel Delgado CRM, ARM, ARM-P, AINS

Chief Risk Officer, University of Arizona

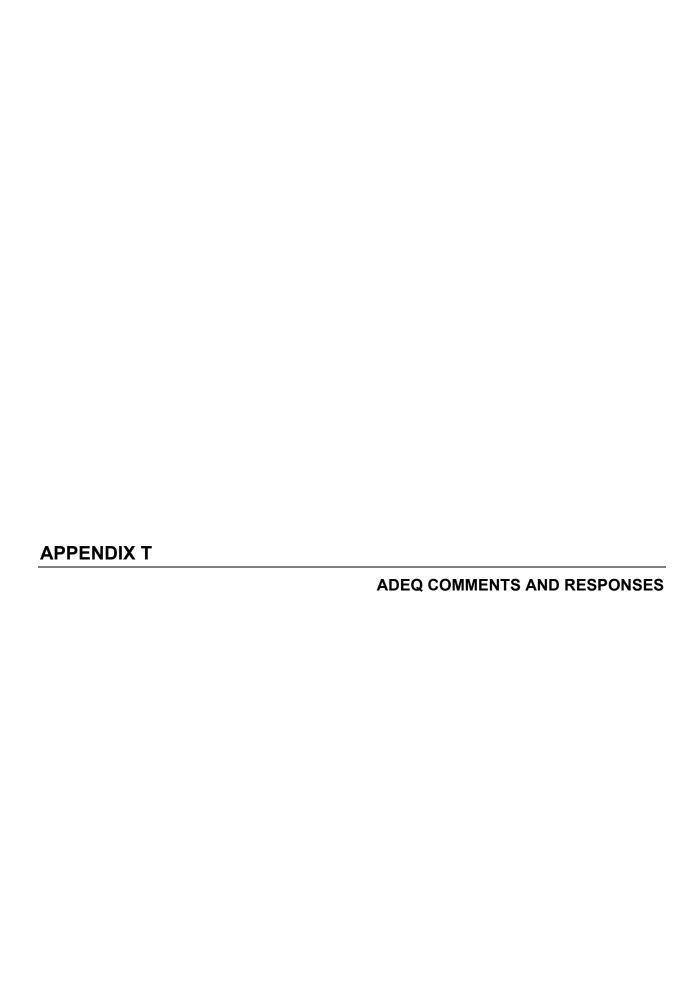
M. G. D. Pall

Cc: Erik Lohman, Doug Brown- ADOA-RMD

Julie Hamilton, Doug Fisher- Wood Environmental

Herb Wagner, Jeff Christensen- UArizona Risk Management





Comment #	Reference	Comment/Recommendation	Response (Action that was completed)	ADEQ Response Complete
1	Section 1 – RCRA Part A Form	Part A Form, Site Contact: The site contact change to Miguel Delgado is noted. Due to this change, Miguel will need to be added to the myDEQ account associated with PTRL. Guidance on shifting Responsible Corporate Officer duties and rights to him can be found here .	This has been changed.	
2	Section 1 – RCRA Part A Form	Part A Form, 8700-23 ("Hazardous Waste Permit Part A Form"): This form is missing from the application and needs to be included for the administrative record. This form can be found in the last two pages of the document linked here .	This form has been completed.	
3	Section 2 – Facility Description	Section 2, Page 2-1, First Paragraph: Change the first sentence to say "The Page-Trowbridge Ranch Landfill (Page Ranch, PTRL,)" to establish a naming convention throughout each attachment and to match the formal site name given in the Part A forms.	This change was made.	
4	Section 2 – Facility Description	Section 2, Page 2-1, Second Paragraph, Final Sentence: Application states that approximately 103 homes and a clubhouse have been constructed in the nearby community. This is the same as the 2012 permit and it is ADEQ's understanding that significant development has occurred since then. Please update the section to account for any development that has occurred between 2012 and 2021.	This section has been updated.	
5	Section 2 – Facility Description	Section 2, Page 2-1, Sixth Paragraph: Please include the missing parentheses after (DOT 17CI).	This change was made.	
6	Section 2 – Facility Description	Section 2, Page 2-2, Fourth Bullet Point: Appendix A (Construction Documentation Report for Final Cover System for Cells A and B) states that the stormwater culvert pipes are 35-inch by 24-inch, but Section 2 indicates that they are 36-inch by 22-inch. Clarify which is correct. If Appendix A is correct, update Section 2 to match. If Section 2 is correct, please provide explanation for the discrepancy.	This has been corrected.	

7	Section 3 – Groundwater Monitoring	Section 3, General: Update title to say "Groundwater and Soil Vapor Monitoring" since the section addresses both.	This change has been made.
8	Section 3 – Groundwater Monitoring	Section 3, General: Establish a naming convention for PTRL prior to referring to it as "Page Ranch" in section 3.1.1 and Page Landfill in section 3.7.1.	This change has been made throughout.
9	Section 3 – Groundwater Monitoring	Section 3, General: The organization of section 3.3 through 4 is difficult to follow. Please indicate the years for each section and make it very clear what the current practices are for the monitoring program. It would be acceptable to summarize past phases of monitoring and detections into one section to ensure that the current monitoring program takes up the largest portion of this document. Try to clearly differentiate sections discussing past analyses versus sections discussing the current monitoring program applicable to this permit renewal. Discussion regarding past analyses and monitoring phases should come first, and the document should end on the current monitoring program and reporting requirements.	This entire section has been reorganized. The historical summary of the site will be updated in the new Risk Assessment.
10	Section 3 – Groundwater Monitoring	Section 3, Page 3-1, Section 3.1.1: Has there been an updated well survey since 2011? Please update this list of nearby wells to be accurate for 2021.	A well survey was completed as part of this response and the section update with the new number of wells. Further details on the well use will be provided in the updated risk assessment.
11	Section 3 – Groundwater Monitoring	Section 3, Page 3-3, Section 3.1.2.1: Provide clarity on the filter packs. What natural material are they made of?	This entire section has been reorganized.
12	Section 3 – Groundwater Monitoring	Section 3, Page 3-4, Section 3.1.2.4: Update section to include analysis of data up to 2021 (as shown in Table 2).	This entire section has been reorganized.

13	Section 3 – Groundwater Monitoring	Section 3, Page 3-5, Section 3.3: Add the years interim status monitoring occurred at the beginning of this section to clearly identify when the samples were taken.	This entire section has been reorganized.
14	Section 3 – Groundwater Monitoring	Section 3, Page 3-5, Section 3.3.3: The results from 1984 to 1997 are not included in Appendix H. Appendix H only contains data from 2012 to 2021. Either remove this reference, or include the data in Appendix H.	This has been updated. Appendix H will only include data from 2011 to 2021.
	Section 3 – Groundwater Monitoring	Section 3, Page 3-7, Section 3.4: Please include the range of dates for this "post-closure period" at the beginning for clarity and context of the data in this section. Additionally, the current program is still considered post-closure detection monitoring, so it may be more accurate to say "past post-closure monitoring." Alternatively, keep this section as is and include data up to 2021.	This entire section has been reorganized.
15	Section 3 – Groundwater Monitoring	Section 3, Page 3-9, Section 3.5.1: Edit first sentence for clarity, along the lines of "Prior to landfill closure, a near surface soil vapor survey was conducted by HGC in July 1988 to determine the potential for contaminants from the landfill to migrate to the area surrounding the landfill."	This entire section has been reorganized.
17	Section 3 – Groundwater Monitoring	Section 3, Page 3-12, Section 3.6.2: Include the radionuclides and the associated analysis methods in the bulleted list for clarity. Expand on which radionuclides the samples will be analyzed for (i.e. alpha emitters, gamma, etc.). Additionally, in recent monitoring reports, EPA Method 504.1 has been included to analyze for ethylene dibromide, 1,2-dibromo-3-chloroprane, and 1,2,3-trichloropropane. Please include that in the list of analytes. Update the same list of analytes and methods in Section 3 and in Appendix B.	Radionuclides have been added. Methods 504.1 and 524.2 have been added.

			I
	Section 3 –	Section 3, Page 3-19, Section 3.7.2.4: Change "very low" to	This change has been made.
	Groundwater	"low". Very is subjective, which can be misleading.	
18	Monitoring		
		Section 3, Page 3-19, Section 3.7.3: Please indicate which	Analytical methods are presented in detail in
		laboratory method (i.e. EPA method) will be used for each of	Appendix B.
	Section 3 –	the laboratory analyses as shown in Section 3.6.2 or	
	Groundwater	reference the section where the EPA methods were	
	Monitoring	identified.	
	Widilitaring	identified.	
10			
19			
		Section 3, Page 3-19, Section 3.7.3: Earlier in Section 3.6.2,	This entire section has been reorganized.
	Section 3 –	testing for radionuclides was indicated, but that analysis has	Radionuclides have been added.
	Groundwater	been excluded in this section. Include radionuclides in this list	
	Monitoring	of analyses.	
	ivioriitoriiig		
20			
		Section 3, Page 3-20, Section 3.7.4.2: It would be more	This change has been made. Please note tables
	Section 3 –	accurate to say that the justification for background water	4 and 5 were removed. Tables 6, 7, and 8 are
	Groundwater	quality and alert levels is presented in Section 3.6.3 and 3.6.4	now tables 4, 5 and 6.
	Monitoring	and that the values themselves are presented in Tables 6a	Tien tables if a did of
21	Wionitoning	and 7.	
21		Section 3, Page 3-20, Section 3.7.4.4: Text indicates that	All analytes are analyzed semi-annually. This
		monitoring for analytes will change from twice a year or	change has been made.
		annual, as applicable, to twice that frequency. Clarify which	
	Section 3 –	analytes are tested annually? All previously discussed	
	Groundwater	analyses are on a semi-annual schedule. Please clarify what is	
	Monitoring	tested annually, or correct this section (and related sections	
		in Appendix B and Appendix B Attachment D) to only show	
		the semi-annual piece.	
22			
		Section 3, Page 3-20, Section 3.7.4.4: Where is retesting	The following statement is in Section 3.
	Section 3 –	described above? The text only indicates the increased	
	Groundwater	monitoring if an alert level is exceeded, but does not	If a determination is made based on the analytical
		describe the requirement of retesting in case of an AWQS	data that AWQS specified in AAC R-18-11-405 have
22	Monitoring	,	been exceeded in groundwater samples collected
23		exceedance. Please include dialogue explaining how retesting	The state of the s

		will be done in the event of an exceedance or anomalous reading.	from the site monitoring wells, the following actions will be taken: • ADEQ will be notified within seven days upon receipt of laboratory results indicating an exceedence of an AWQS. • Retesting will be performed as described above. • If laboratory analyses of verification samples indicate an exceedence of an AWQS, periodic monitoring will be increased as stated above. • If laboratory analyses of verification samples indicate an exceedence of an AWQS, a report will be submitted to ADEQ within 30 days upon receipt of laboratory results. The report will include at a minimum the following: • AWQSs which have been exceeded; and, • The period of exceedence and remedial measures proposed.
24	Section 3 – Groundwater Monitoring	from the last bullet of this section. While an exceedance of an alert level will result in increased monitoring and ADEQ consultation, the exceedance of an AWQS will require a meeting with ADEQ to, at a minimum, discuss the exceedance and remedial actions proposed along with the path forward.	"If necessary" has been removed.
25	Section 3 – Groundwater Monitoring	Section 3, Page 3-21, Section 3.7.5.2: ADEQ recommends adding radioactivity field monitoring or radionuclide soil gas monitoring on a frequency of once every two years. Radon gas is a possible decay product of multiple radionuclides found in the landfill and could pose a risk to nearby residents if preferential pathways are formed.	This comment will be addressed in the comment regarding the Risk Assessment.

		Section 3, Page 3-23, Section 4: Rather than having statistical	The concentrations are generally decreasing.
		analyses "if necessary", please edit the report to include a	Per our original monitoring program, additional
	Section 3 –	statistical analysis on the soil vapor extraction (SVE) system's	steps, including statistical analysis, will be
	Groundwater		
		influent data every two years or describe when statistical	performed if an alert level is exceeded.
	Monitoring	analysis would occur. This way there is a periodic check to	
		determine if VOC concentrations being removed from the	
26		landfill are increasing or decreasing significantly.	
		Section 3, Page 3-23, Section 4: Please indicate where data	This has been added.
	Section 3 –	and reports will be submitted. Electronic data deliverables	
	Groundwater	will be submitted to ADEQ for inclusion in our water quality	
	Monitoring	database. The semi-annual reports should be emailed to	
	Wionitoning	ADEQ via the hazwastepermits@azdeq.gov general inbox for	
27		review by the permit writer.	
		Section 4, Page 4-1, Gates: This section indicates that there	There are three gates. One is located on the
	Section 4 –	are three rolling gates at the facility. The site map provided	north and two one the east. The second gate
	Procedures to	as Figure 1 only shows two rolling gates. Please correct this	on the east is 230 feet north of the main
		or clarify the location of the third gate.	entrance.
	Prevent Hazards		
28			
		Section 4, General: There is no discussion regarding the	The data is being recorded and transmitted in
		power supply for the SVE system. Are there procedures in	real time to the site technician. If no data is
		place to be alerted when the SVE system shuts off	being received, we assume the system is not
		unexpectedly or loses power from the solar	running and the technician goes to the site to
		panels/batteries? What protocols occur to ensure the SVE	conduct an inspection.
		system's operation in this instance? More detailed	'
		descriptions on responses to power failure may be	The battery cabinet has fan that continuously
	Section 4 –	appropriate to discuss elsewhere, but it may be worthwhile	runs to prevent overheating.
	Procedures to	to include a small section here discussing the alert systems in	
	Prevent Hazards	place.	
		p.a.cc.	
		Additionally, please include discussion on what will be done	
		to prevent overheating or fires from the SVE system, even if	
		it is to reference a related section added to the Operation	
		and Maintenance (O&M) manual or the contingency plan.	
20		and Maintenance (Oxivi) mandal or the contingency plan.	
29			

	Section 5 –	Section 5: Please use the full name "Page-Trowbridge Ranch	This change was made.	
20	Contingency	Landfill" before establishing a shortened version of it.		
30	Plan	Continue C. Borne C. 1. Impropriate Plans Mr. ADEO/s	This postion was revised to note that posicial	
		Section 6, Page 6-1, Inspection Plan: It's ADEQ's understanding that UA personnel perform monthly	This section was revised to note that periodic inspections would be completed as necessary	
		inspections during "Monsoon Season," typically from July to	following major storm events.	
		September, in addition to the quarterly inspections. These	Tollowing major storm events.	
	Section 6 – Post-	monthly inspections during months where intense storms	Appendix D, Post Closure Inspection Plan was	
	Closure Plan	occur improve the resiliency of PTRL and ADEQ would like to	also revised.	
		see this continue. Please include these inspections in the		
		inspection plan, or provide explanation for why UA believes		
24		quarterly inspections are sufficient.		
31		Section 6, Page 6-4, Notation in Deed: In the last paragraph,	This change was made.	
		it indicates that if UA wishes to remove wastes, then a permit	This change was made.	
		modification will be requested. Update this section to state		
	Section 6 – Post-	that if UA wishes to remove waste from the landfill, they		
	Closure Plan	must consult ADEQ and submit a permit modification prior to		
		any work beginning.		
32				
		Section 6, General: In the 2018 permit modification,	A bullet was added to Section 6, under Access	
		submitted by UA, to update the restrictive covenant, the Post-Closure Plan was updated to include UA's actions to	Roads as follows:	
	Section 6 – Post-	protect ingress and egress to the PTRL. This section is missing	"Maintaining ingress and egress for the eastern	
	Closure Plan	from this permit application. Please add discussion regarding	entrance of PTRL"	
		maintaining ingress and egress for the Eastern entrance of		
		PTRL.		
33				
		Section 9, General: If specific references are necessary for	The narrative section, including References, has	
		each section of the main application, please include the	been combined into a single document.	
	Section 9 –	references at the end of the appropriate section. There will not be a separate references page in the permit, so it's		
	References	important to include the appropriate references in the		
		relevant sections or appendices.		
34				

		T-11 0 D	T-1 - 1
		Table 8: Remove "Draft" from table.	This change was made.
	Tables		
35			Please note, Table 8 is now Table 6.
		Figure 4: This flood plain map is from 2011. Please confirm	It was verified that this is the most current flood
		that there is not an updated version of this map. If there is an	plain map. The date on the figure has been
	Figures	updated version since 2011, submit the new map.	changed to 2022.
36			
		Figures 6a through 6t: Add a line to these graphs indicating	
	Figures	the alert level for each constituent to add value to the	The alert level line for each constituent was
37		trendlines shown.	added.
	Appendix B –	Appendix B, Table of Contents: Fix formatting.	Formatting has been fixed.
	Post-Closure	,	
	Period Expanded		
	Groundwater		
	Detection		
38	Monitoring Plan		
	Appendix B –	Appendix B, General: Please include some discussion about	A reference has been added referring to the
	Post-Closure	handling investigation derived waste (IDW) or	QAPP.
	Period Expanded	decontaminating reusable equipment. This can include a	Qui i .
	Groundwater	reference to the Quality Assurance Project Plan (QAPP)	
	Detection	where IDW and decontamination is discussed in more detail	
	Monitoring Plan	and a brief summary if necessary.	
	IVIOITILOTTING PIATI	and a brief summary if fiecessary.	
39			
	Appendix B –	Appendix B, Page 1, Section 1.2: This section begins abruptly	The paragraph regarding not adding additional
	Post-Closure	and the organization is confusing. It may be beneficial to put	wells is no longer relevant and has been
	Period Expanded	the last paragraph and bullet points first, and then close with	removed.
	Groundwater	the justification of not adding more wells.	Temorea.
	Detection	the justification of flot adding filore wells.	
40	Monitoring Plan		
40		Annondix P. Dago 2. Section 1.2: The SVE ORAL manual	A sentence was added to the end of Section 1.2
	Appendix B –	Appendix B, Page 2, Section 1.2: The SVE O&M manual	
	Post-Closure	shows that samples are also taken from the SVE system's	to reference the effluent samples.
	Period Expanded	effluent to ensure functionality. Please include the effluent	
41	Groundwater		

	Detection	samples in this section or a reference to other operational	
	Monitoring Plan	samples being taken as described in the SVE O&M manual.	
	_		
	Appendix B –	Appendix B, Page 2, Section 1.3.1: Same comment as	A sentence was added to the end of Section
	Post-Closure	number 41.	1.3.1 to reference the effluent samples.
	Period Expanded		
	Groundwater		
	Detection		
42	Monitoring Plan		
	Appendix B –	Appendix B, Page 3, Section 1.3.4: Add radionuclides to the	The specific analytes were added to the
	Post-Closure	bulleted list along with the other analyses to ensure those	bulleted list.
	Period Expanded	samples are taken. Include the specific analytes and methods	
	Groundwater	used.	
	Detection		
43	Monitoring Plan		
	Appendix B –	Appendix B, Page 4, Section 1.4: Remove "as required by	Change was made (not in track changes).
	Post-Closure	Part IV of the Post-Closure Permit" and leave in that the	
	Period Expanded	inspections are contained in the Post-Closure Inspection and	
	Groundwater	Maintenance Plan. Remove the last sentence and add	
	Detection	(Appendix D) to the end of the first sentence.	
44	Monitoring Plan		
	Appendix B –	Appendix B, Page 4-5, Section 2.1.1: Include other safety	This list has been updated.
	Post-Closure	equipment in this list or an adjacent list (i.e. safety glasses,	
	Period Expanded	goggles, etc.) and indicate safety or emergency equipment	
	Groundwater	brought on sampling trips (as identified in the Site Health and	
	Detection	Safety Plan or Contingency Plan). This could be done by	
	Monitoring Plan	referencing the appropriate sections where safety	
		equipment is discussed.	
45			
	Appendix B –	Appendix B, Page 7, Section 2.2.2: If a good cannister is	Less than 20 would not allow for a proper
	Post-Closure	between 26 in Hg and 30 in Hg, why are the cannisters only	sample withdrawal. A clarification was added.
	Period Expanded	replaced if the reading is less than 20 in Hg? Please provide	
	Groundwater	explanation for the difference.	
	Detection		
46	Monitoring Plan		

	Appendix B –	Appendix B, Page 9, Section 3.2.4: Please add "Well Purging"	Complete, added "during well Purging" to the
	Post-Closure	to the title of this section to clearly indicate that purging	title.
	Period Expanded	requirements can be found here.	
	Groundwater		
	Detection		
47	Monitoring Plan		
	Appendix B –	Appendix B, Page 11, Section 3.3: Sentence starting	The paragraph was revised for clarification.
	Post-Closure	"Samples are collected" seems to be missing a word or two.	
	Period Expanded		
	Groundwater		
	Detection		
48	Monitoring Plan		
	Appendix B –	Appendix B, Page 11, Section 3.3: Be sure to make note of	A sentence was added to this section to
	Post-Closure	which leak detection compound is used on the field log in	reference that the leak detection compounded
	Period Expanded	case the compound accidently contaminates the samples.	is recorded on the field form.
	Groundwater		
	Detection		Leak detection compound was added to the
49	Monitoring Plan		field form.
	Appendix B –	Appendix B, General Organization: The usability of this plan	The existing organization of the plan is the
	Post-Closure	would improve if the sections were organized in the order	organization that the users of the plan prefer.
	Period Expanded	they are performed (i.e. soil vapor monitoring prior to	As such, no changes have been made to the
	Groundwater	groundwater monitoring, MW-2 and MW-5 soil vapor	organization.
	Detection	protocols before the other monitoring points, etc.)	
50	Monitoring Plan		
	Appendix B –	Appendix B, Page 13, Section 3.3.4: Are field blanks collected	Since dedicated equipment is utilized for each
	Post-Closure	for groundwater? Field blanks are collected for soil vapor,	well, equipment field blanks are not necessary
	Period Expanded	but there was no mention of blanks, other than the trip	for groundwater. A trip blank, prepared by the
	Groundwater	blank, for groundwater. ADEQ recommends including field	laboratory, is included with each sampling
	Detection	blanks for all analyses.	cooler and is analyzed with each sampling
	Monitoring Plan		event. The trip blank is discussed in section
51			2.1.2.
	Appendix B –	Appendix B, Page 16, Section 4.6: Rather than performing	Per our original monitoring program, additional
	Post-Closure	the statistical analysis (i.e Mann-Kendall) if necessary, ADEQ	steps, including statistical analysis, will be
	Period Expanded	recommends doing the analysis on the SVE system's influent	performed if an alert level is exceeded.
52	Groundwater	data (and including it in the monitoring report) every two	

	Detection	years, or on a UA recommended schedule. Doing so will allow	The purpose of the soil vapor monitoring is for	
	Monitoring Plan	for early detection of increasing trends.	early detection of potential impacts to	
	S	, c	groundwater.	
	Appendix B –	Appendix B, Page 16, Section 4.6: Please include where	This has been added.	
	Post-Closure	reports will be submitted in this section. Electronic data		
	Period Expanded	deliverables (EDD) will be submitted to ADEQ's water quality		
	Groundwater	database and the full reports will be sent to ADEQ via		
	Detection	hazwastepermits@azdeq.gov_for review.		
53	Monitoring Plan			
	Appendix B –	Appendix B, Attachment D (QAPP): Update distribution	This change has been made.	
	Post-Closure	sheet to remove Anthony Leverock and include Gav Orman		
	Period Expanded	for ADEQ.		
	Groundwater			
	Detection			
54	Monitoring Plan			
	Appendix B –	Appendix B, Attachment D (QAPP), Page 1: Update date of	Updated date has been added.	
	Post-Closure	the Expanded Groundwater Detection Monitoring Plan		
	Period Expanded	(EGDMP) to reflect the most recent update.		
	Groundwater			
	Detection			
55	Monitoring Plan			
	Appendix B –	Appendix B, Attachment D (QAPP), Page 4: If an alert level is	See response to comment 22, which explains	
	Post-Closure	exceeded twice consecutively, monitoring should be	the process for retesting and notifying ADEQ.	
	Period Expanded	increased and the well should be sampled again immediately.	Reference to annual sampling has been	
	Groundwater	The section indicates that "retesting" will be done, but it is	removed.	
	Detection	not explained. Please include the explanation in this section.		
	Monitoring Plan	Ensure this section reflects changes made in Section 3 and		
		Appendix B regarding this response (Comment #22, 23, and		
		24).		
56				
	Appendix B –	Appendix B, Attachment D (QAPP), Page 10, Section 6.2.2:	The following sentence was added: "If sampling	
	Post-Closure	While same day soil vapor sampling is ideal and should be	cannot occur on the same day, it will be	
	Period Expanded	the goal, if something occurs that prevents UA from sampling	conducted as soon as possible thereafter."	
	Groundwater	the same day, please indicate that UA will take soil vapor		
57		samples as soon as possible (within 2 days).		

	Detection			\neg
	Monitoring Plan			
58	Appendix B – Post-Closure Period Expanded Groundwater Detection Monitoring Plan	Appendix B, Attachment D (QAPP), Page 10, Section 6.2.3: Include discussion regarding other IDW (i.e. disposable sampling equipment, disposable safety equipment).	The following sentences were added: "Personal protection equipment (PPE) will be taken off site and disposed of as solid waste. Currently no disposal sampling equipment is used. However, if used in the future, it would also be taken off site and disposed as solid waste."	
	Appendix B – Post-Closure Period Expanded Groundwater Detection	Appendix B, Attachment D (QAPP), Page 10, Section 6.2.5: Is dedicated equipment specific to each well? If not, any equipment that moves and touches the sampling ports between wells should be, at a minimum, rinsed off with DI water prior to being used on a different well to prevent any	The only non-dedicated equipment is the water depth sounder. Only the first three feet is rinsed between wells because it is the only portion that enters that water at each well.	
59	Monitoring Plan	potential contamination. Explain why only the first three feet of the sounder is rinsed off prior to starting work. Is the rest of the sounder unexposed between sampling events?	No changes have been made to this section.	
	Appendix B – Post-Closure Period Expanded Groundwater Detection Monitoring Plan	Appendix B, Attachment D (QAPP), Page 16, Section 8.1: Include discussion of field blanks here. Earlier in the document, it is indicated that a field blank is taken for SVE samples, but that is not shown in this section. Clarify if a field blank is taken for groundwater, and, if not, explain why.	The following section was added. 8.1.3 Field Blank Sample And Use of Leak Detection Compound During the soil vapor monitoring process a leak detection compound is used to ensure that the sample is being drawn from the well and that outside air is not being drawn into the sample. In addition, one field blank is collected during the soil vapor sampling event. The field blank is collected by opening the cannister to collect ambient air. This ensures that the cannisters used in the sampling event have been properly	
60			sanitized and prepared by the laboratory.	

			Pield blocks are not colleged doubt and	
			Field blanks are not collected during the	
			groundwater monitoring activities because all	
			sampling equipment, with the exception of the	
			water level sounder, is dedicated to a specific	
			well.	
	Appendix B –	Appendix B, Attachment D (QAPP), Page 21, Section 15:	Miguel Delgado has been added in place of	
	Post-Closure	Update authorized signatory for PTRL submittals to ADEQ.	Steve Holland.	
	Period Expanded			
	Groundwater			
	Detection			
61	Monitoring Plan			
	Appendix B –	Appendix B, Attachment D (QAPP), Page 22, Section 15.4:	This has been added.	
	Post-Closure	Include how information is submitted to ADEQ for the report.		
	Period Expanded	EDD submitted for the water quality database and then the		
	Groundwater	semi-annual report is sent to hazwastepermits@azdeq.gov		
	Detection	for review.		
62	Monitoring Plan			
	Appendix B –	Appendix B, Attachment D (QAPP), Table 1: Update ADEQ	Complete	
	Post-Closure	portion of this section. The hazardous waste permits unit		
	Period Expanded	supervisor is Jessica Kohl (602-580-6092), change project		
	Groundwater	hydrogeologist to project manager or permit writer and have		
	Detection	Gav Orman (602-771-8727).		
63	Monitoring Plan			
	Appendix B –	Appendix B, Attachment D (QAPP), Table 2: Format table to	Complete	
	Post-Closure	make sure "representativeness" is on one line.		
	Period Expanded			
	Groundwater			
	Detection			
64	Monitoring Plan			
	Appendix D –	Appendix D, Page 1, Introduction: Sentence two discusses	Complete	
	Post-Closure	the groundwater monitoring wells. Please add language		
	Inspection and	discussing inspection and maintenance of the SVE system.		
	Maintenance			
65	Plan			

	Appendix D –	Appendix D, Page 1, Access Roads: The last sentence of this	Complete	
	Post-Closure	section is confusing. Please re-word for clarity along the lines	Complete	
	Inspection and	of "Vegetation density will be controlled by the UA personnel		
	Maintenance	to allow access by emergency and maintenance vehicles."		
66	Plan	to anow access by emergency and maintenance vernoles.		
	Appendix D –	Appendix D, Page 1, Perimeter Fencing and Signs: Alter first	Complete	
	Post-Closure	sentence to include "presence of excessive vegetation		
	Inspection and	around entrance gates and fencing." While removing		
	Maintenance	excessive vegetation around the gates is vital for access,		
	Plan	excessive vegetation around the fence itself can degrade the		
		fence's integrity.		
67		· '		
	Appendix D –	Appendix D, Page 1, Survey Monuments: Change	Complete	
	Post-Closure	"tempering" to "tampering."		
	Inspection and			
	Maintenance			
68	Plan			
	Appendix D –	Appendix D, General: There is no discussion regarding the	Complete	
	Post-Closure	inspection and maintenance of the SVE system. Please		
	Inspection and	include the SVE system's inspection and maintenance after		
	Maintenance	the Groundwater Monitoring System section. If SVE		
	Plan	inspection and maintenance is described in detail elsewhere		
		(i.e. the O&M manual), please reference that in the added		
		section.		
69	4 1: 5	A 11 D 1 11 0/5		
	Appendix D –	Appendix D, Inspection Report: Please include the SVE	Complete	
	Post-Closure	system on this inspection report, or provide an additional		
	Inspection and Maintenance	attachment for the SVE system's inspection.		
70	Plan			
70		Appendix E, General: If UA wishes to have personal	Complete	
	Appendix E –	information for the emergency coordinators (home address,	Complete	
	Post Closure	phone number, etc.) redacted from the public copy of the		
71	Contingency	contingency plan, please submit the confidentiality request		
, -	Plan	form (transmitted with this letter and in the pre-application		

		madena) Additionally position of the count	
		package). Additionally, provide a version of the contingency	
		plan with those pieces redacted for inclusion in the public	
		copy of the permit and application.	
		Appendix E, Page 1, Section 1.A: The third paragraph states	Complete
	Appendix E –	that the cells in Units A and B were approximately 10 feet	
	Post Closure	deep. However, Section 2 (Facility Description) indicates that	
	Contingency	the cells were 15 feet deep. Please clarify which is more	
	Plan	accurate and correct the appropriate reference.	
72			
	Appendix E –	Appendix E, Page 2, Section 1.A: This section states that	Complete
	Post Closure	there are three sets of gates, but Exhibit 2 only shows two	
	Contingency	entrances to the site. Please correct, or clarify the location of	
	Plan	the third gate.	
73	rian	the third gate.	
/3	Appendix E –	Appendix E, Page 2, Section 1.A: Please include the SVE	Complete
	Post Closure	•• • • • • • • • • • • • • • • • • •	Complete
		monitoring wells alongside the groundwater monitoring	
	Contingency	wells.	
74	Plan		
	Appendix E –	Appendix E, Page 2, Section 2: Correct the page numbers for	Complete
	Post Closure	where the telephone numbers are listed. The Emergency	
	Contingency	Coordinators are listed on Pages 3 to 4, not 5 to 6 or 7 to 8.	
75	Plan		
	Appendix E –	Appendix E, Page 2, Section 2: Remove semi-colon from	Complete
	Post Closure	sentence beginning "The decision to implement"	
	Contingency		
76	Plan		
	Appendix E –	Appendix E, Page 2, Section 2: Correct the page number for	Complete
	Post Closure	contingency plan implementation.	
	Contingency		
77	Plan		
	Appendix E –	Appendix E, Page 3, Emergency Coordinators: With Miguel	Complete
	Post Closure	Delgado taking over as Chief Risk Officer, ADEQ recommends	
78		updating the emergency coordinator list during the permit	
70		apadents the emergency coordinator list during the permit	

	Contingency Plan	renewal, rather than after issuance. Updating the emergency coordinator list after permit issuance would require a Class 1 Modification.	
79	Appendix E – Post Closure Contingency Plan	Appendix E, Page 3, Emergency Coordinators: With Miguel Delgado taking over as Chief Risk Officer, ADEQ recommends updating the emergency coordinator list during the permit renewal, rather than after issuance. Updating the emergency coordinator list after permit issuance would require a Class 1 Modification.	Complete
80	Appendix E – Post Closure Contingency Plan	Appendix E, Page 3, UA Police Department: Please include the area code for the non-campus phone line to ensure full understanding.	Complete
81	Appendix E – Post Closure Contingency Plan	Appendix E, Page 4, Section 3: Fix formatting for 1b.	Complete
82	Appendix E – Post Closure Contingency Plan	Appendix E, Page 4, Section 3: Does UA have a guideline or definition for what constitutes a significant storm event requiring contingency plan implementation?	Complete
83	Appendix E – Post Closure Contingency Plan	Appendix E, Page 4, Section 3: It seems like a word is missing from 2a.	Complete
84	Appendix E – Post Closure Contingency Plan	Appendix E, Page 4, Section 4.A: This paragraph could use additional clarity. Please re-write this paragraph to ensure the local notification paths are clear and concise. From the current paragraph, it's unclear why the Tucson Area Agricultural Centers' Director is a contact (are they close to the site?). Additionally, the sentence starting with "Personnel that are familiar" is confusing. Does it mean that personnel on-site at the time of the incident need to wait for clearance	Complete

		prior to leaving the site? What if it's a fire and they need to	
		evacuate prior to an emergency coordinator response? What	
		if they are unfamiliar with the site? The page numbers where	
		agencies can be found also seems to be incorrect.	
	Appendix E –	Appendix E, Page 4-5, Evacuation Plan: Would an evacuation	Complete
	Post Closure	still be initiated if the situation poses a threat to human	
	Contingency	health, and not just life? Clarify what the predetermined	
	Plan	location is or include a map with the evacuation zone(s)	
		highlighted. Would it be more beneficial to evacuate upwind	
		of the facility to prevent exposure to airborne contaminants?	
		Additionally, is there a system in place to notify the nearby	
		communities in case further evacuation is necessary?	
85		, ,	
	Appendix E –	Appendix E, Page 5, Section 4.C: Capitalize the first word of	Complete
	Post Closure	bullet g.	
	Contingency		
86	Plan		
	Appendix E –	Appendix E, Page 6: Fix formatting.	Complete
	Post Closure	Appendix 2) rage of the formatting.	Complete
	Contingency		
87	Plan		
,	Appendix E –	Appendix E, Page 6, #4: Clarify if this means re-contacting	Complete
	Post Closure	the fire department and sheriff to update them with the new	Complete
	Contingency	information.	
88	Plan		
88	Appendix E –	Appendix E, Page 7, Section 4.F: The sentence beginning "All	Complete
	Post Closure	releases of materials" should be edited to remove "if	Complete
		possible" from the end. If the released materials cannot be	
	Contingency	'	
	Plan	identified, the release should continue to be treated as	
90		extremely hazardous.	
89	A	Assessable 5 Dece 0 Serverses 5	Country
	Appendix E –	Appendix E, Page 9, Emergency Equipment: Is any	Complete
	Post Closure	emergency equipment brought with personnel for regular	
	Contingency	site visits (i.e. inspection or sampling visits)? ADEQ	
90	Plan		

		recommends ensuring that any personnel going to the site	
		have an emergency response bag with them.	
	Appendix E –	Appendix E, Page 9: Missing parentheses at end of the last	Complete
	Post Closure Contingency	sentence.	
91	Plan		
	Appendix E –	Appendix E, Page 10, Contingency Plan Update,	Complete
	Post Closure	Distribution, and Control: Please include (or be aware) that	Complete
	Contingency	updates to the contingency plan must be submitted to ADEQ	
	Plan	as a Class 1 Modification Request per 40 CFR Part 270.42	
		Appendix 1. Most changes to the contingency plan are simply	
		informational modifications (no fee required), but changes to	
		emergency equipment, emergency response, etc. require	
		Director Approval (fee required).	
92			
	Appendix E –	Appendix E, Exhibit 3: For recordkeeping purposes, obtain an	Complete
	Post Closure	updated resource allocation letter that acknowledges Miguel Delgado as the new Chief Risk Officer.	
	Contingency Plan	Deigado as the new Chief Risk Officer.	
93	i idii		
	Appendix E –	Appendix E, Exhibit 5: Does UA have regular PPE inspections	Complete
	Post Closure	in place to ensure that the equipment is in good working	·
	Contingency	order prior to usage?	
94	Plan		
	Appendix E –	Appendix E, Exhibit 5: Are radios frequently brought to the	Complete
	Post Closure	site? In case of cell phone failure, it may be beneficial to	
	Contingency	bring a secondary communication pathway due to the	
95	Plan	remote nature of PTRL.	
	Appendix E – Post Closure	Appendix E, Quick Reference Guide, Section 5: On number 1b, correct to say, "A fire that has originated"	Complete
	Contingency	10, correct to say, A fire that has originated	
96	Plan		
	Appendix E –	Appendix E, Quick Reference Guide, Section 5: On 2a,	Complete
97	Post Closure	capitalize the first letter of the sentence.	

	Contingency		
	Plan		
98	Appendix E – Post Closure Contingency Plan	Appendix E, Quick Reference Guide, General: This guide may benefit from having a stepwise list or "checklist" on who to contact and what to respond to first. This could be done to summarize the dialogue found in the full Contingency Plan.	Complete
99	Appendix F – Site Health and Safety Plan	Appendix F, Page 1, Purpose: Change "extraction soil vapor" to "extract soil vapor."	Complete
100	Appendix F – Site Health and Safety Plan	Appendix F, Page 2, Authorized Entry: Alter sentence 3 to say "The SHSO for each visit will be determined prior to the visit," to reduce redundancy.	Complete
101	Appendix F – Site Health and Safety Plan	Appendix F, Page 2, Authorized Entry #3: Alter final sentence to say "SHSO shall consult with the supervisor to correct the missing equipment prior to proceeding with the work." This provides clarity to whether work will continue with missing equipment.	Complete
101	Appendix F – Site Health and Safety Plan	Appendix F, Page 3, Authorized Entry: Clarify the communication strategy for the SHSO when they are the only person on-site. Will they have a cell phone? Do they alert other personnel prior to entering the site?	Complete
103	Appendix F – Site Health and Safety Plan	Appendix F, Page 3, Heat Stress: Clarify how potable water will be readily available. Is this brought by the personnel?	Complete
104	Appendix F – Site Health and Safety Plan	Appendix F, Page 6, Chemical Hazards: Last sentence of paragraph 1 is confusing. Please edit for clarity along the lines of: "Chemicals used for site maintenance, such as vegetation control, must be used only by trained applicators, in accordance with manufacturing specifications and safe	Complete

		handling techniques. Use and disposal provisions from the		
		safety data sheets (SDS) must be followed and SDSs must be		
		available or maintained on-site."		
	Appendix F – Site	Appendix F, Page 6, Chemical Hazards: Change "Treated soil	Complete	
	Health and	vapor contains some VOCs." to "Treated soil vapor contains		
	Safety Plan	lower levels of VOCs." The current wording is vague and can		
105		be misleading		
	Appendix F – Site	Appendix F, Page 7, Chemical Hazards: In regards to oxygen	Complete	-
	Health and	level monitoring, are oxygen levels only measured prior to		
	Safety Plan	entry into the SVE areas, or do personnel wear a continuous		
	Surety Harr	percent oxygen monitor, with an alarm, during the work?		
		ADEQ recommends having at least one continuous percent		
		oxygen monitor with an alarm to alert personnel to a		
		potentially hazardous condition within confined spaces.		
405		Please clarify.		
106				
	Appendix F – Site	Appendix F, Page 7, Chemical Hazards: Abbreviate "Soil	Complete	
	Health and	Vapor Extraction" system to SVE as previously done in		
	Safety Plan	document.		
107				
	Appendix F – Site	Appendix F, Page 7, Chemical Hazards: The photo-ionization	Complete	
	Health and	detectors (PIDs) have a shorter lifetime. Are personnel		
	Safety Plan	trained on how to test and calibrate the PIDs prior to use to		
		ensure they are in working order? Similarly, is there a		
		protocol in place to ensure the PIDs are reading accurately		
		prior to relying on them in the field?		
108				
	Appendix F – Site	Appendix F, Page 7, Chemical Hazards Air Monitoring Action	Complete	
	Health and	Levels: The alert level for combustible gas is indicated as less		
	Safety Plan	than 5% of the lower explosive limit (LEL). Standard is to alert		
	,	at less than 10% of the LEL for increased safety. Please edit		
		the table to reflect the 10% or provide justification for why		
109		5% is acceptable.		

110	Appendix F – Site Health and Safety Plan	Appendix F, Page 8, Fence: Correct formatting issue with 45-degree barbed wire note.	Complete
111	Appendix F – Site Health and Safety Plan	Appendix F, Page 8, Gate: Text indicates three rolling gates, but Figure 1 shows two rolling gates. Please correct to reflect the actual number of entrances to the site or clarify where the third gate is located.	Complete
112	Appendix F – Site Health and Safety Plan	Appendix F, General, 3.0 Hazard Assessment: There is no discussion regarding fire hazards (either natural or induced by on-site equipment). Please include discussion on where fires may occur and what is in place to prevent them. There should be fire response discussion in the contingency plan. At a minimum, an acknowledgement of this additional hazard and how it is prevented would be beneficial here.	Complete
113	Appendix G – SVE O&M Manual	Appendix G, Page 1: Alter the first sentence to say "A solar-powered soil vapor extraction (SVE) system was designed and constructed at the Page-Trowbridge Ranch Landfill (PTRL)," for clarity.	Changed
114	Appendix G – SVE O&M Manual	Appendix G, Page 1: Edit the second and third sentence for accuracy, "This Operations and Maintenance (O&M) Manual acts as a guide for the O&M of the SVE system. The SVE system is located between landfill units A and B in the center of the PTRL."	Changed
115	Appendix G – SVE O&M Manual	Appendix G, General: Can UA provide a summary table with the operational parameters (i.e. minimums and maximums, values that trigger additional actions, etc.)? Adding this type of summary table to the O&M manual would increase usability of the document.	Table with SVE influent alert levels added
116	Appendix G – SVE O&M Manual	Appendix G, Page 1: It's indicated that PID monitoring was removed in this revision. Please indicate what was removed and the reasoning behind it. Per the Site Health and Safety	Changed, need to revise Appendix F to remove PID monitoring.

		Plan, PID monitoring is required during certain maintenance activities within the SVE system. Additionally, PID monitoring is still included on the maintenance sheet in Attachment F.	
117	Appendix G – SVE O&M Manual	Appendix G, Page 1, Section 1.1: Indicate what is not allowed to exceed 5.5 lbs/day (i.e. VOCs). Please attach calculations showing that the SVE system does not exceed this threshold using recent data (within last 3 years).	Added text defining HAPS are not to exceed 5.5 pounds per day and generated tables of emission calculations for the system since 2019.
	Appendix G – SVE O&M Manual	Appendix G, General: Does the SVE system include alarms and alerts for emergency shut-offs, exceedance of operational parameters, etc.? If yes, please include dialogue about the alerts in this O&M manual. If no, please indicate why not and include a dialogue explaining how the current alert system is resilient enough to not require immediate alarms for exceedances.	Added text to the O&M manual stating that there is no SCADA or remote alert capabilities on the SVE system and that it is not necessary given the weekly site visits and the purpose of the system.
118			
119	Appendix G – SVE O&M Manual	Appendix G, General: If adsorber efficiency increases with decreasing process temperatures, has there been consideration about building an enclosure or shade structure for the exposed components?	Added language to section 2.1 to address this comment.
120	Appendix G – SVE O&M Manual	Appendix G, Batteries: Does the battery array have a monitoring system on it to ensure proper operation? Are there alerts in case of battery failure or anomalous readings? What is the protocol for when the batteries fail and can't operate the pumps? Please include this information either in Appendix G or within an appropriate other location.	Section 2.5.4 discusses the electrical system controller. Added text to this section stating that there is no remote communications capability on the system and that weekly site visits are adequate to identify and resolve faults.
120	Appendix G –	Appendix G, Page 7, Section 2.5.4: Alter first sentence	Adjusted text for clarity
	SVE O&M Manual	beginning "The Outback" for clarity. The "state-of-the-art relative" makes the sentence a bit muddled and difficult to interpret.	
121			

122	Appendix G – SVE O&M Manual Appendix G – SVE O&M Manual	Appendix G, General: Were the solar panels and electrical system designed or reviewed by a certified electrical engineer? Appendix G, General: Clarify how operational parameters like pressure, battery voltage, amperage, etc. are recorded. Is monitoring continuous, or only during inspections?	Added text that the system was designed and installed by HGC in 2008. I am unclear as to whether the system was designed by a licensed EE. Added a sentence that parameters are logged on field log sheets during weekly site visits.
123			
124	Appendix G – SVE O&M Manual	Appendix G, Section 3, General: Is there a range of acceptable system efficiencies? Is there a protocol for optimizing the system if performance drops below the minimum allowable efficiency? If this is not already in place, ADEQ recommends developing a range of allowable efficiencies along with a protocol for response and including that in this O&M manual.	Added a table with the acceptable voltage ranges and a discussion on what to do if the system is out of range.
125	Appendix G – SVE O&M Manual	Appendix G, Section 3.5: Clarify what the normal operation is. When is the SVE system on versus off? How is that determined? Does UA run the system for specific months, if so which months?	Added a paragraph to clarify this.
126	Appendix G – SVE O&M Manual	Appendix G, Page 21, Section 4: The paragraph beginning with "Usually," is in direct contradiction with the site health and safety plan unless the Site Health and Safety Officer is the person performing the inspection and maintenance activities. Please correct this sentence to clarify that at least two technicians need to be on-site during maintenance activities (even if only one technician is performing the maintenance, there should be a second person on-hand to shut off anything in case of emergency).	Revised language to address ADEQ's comment without committing to having two techs onsite for all maintenance activities.
	Appendix G –	Appendix G, Page 22, Section 4.1.2: In regards to the solar	Added a sentence to state that if performance
127	SVE O&M Manual	array maintenance, please clarify if a specialist is brought out to clean the solar panels in case personnel attempts are not	of the arrays is diminished following cleaning by

	Appendix G – SVE O&M Manual	sufficient. Dirty panels can significantly reduce the efficiency of the system, and the current phrasing of this paragraph does not indicate if additional actions are taken. Appendix G, Page 29 (and throughout), Section 6.3: The section indicates that the SVE system will minimally operate for 3 months on and then 9 months off. While knowing the minimum operation is valuable, ADEQ believes the system should run above the minimum for a more conservative approach. Please update this section to indicate the typical operation and that, at a minimum, the system will operate for 3 months a year. ADEQ recommends adding another 3 months of operation (i.e. 3 months on, 3 months off, 3 months on, 3 months off) to increase the time for responses to an identified release. With releases detected within 5-10 years at the minimum operation, releases could be detected much faster with an increased operation schedule, allowing for faster response times. Please edit the SVE O&M manual to reflect this, or provide justification for solely operating at the minimum to	U of A staff a qualified subcontractor will be used to clean them. Added a sentence stating that typical operation is 3 months on and 3 months off but did not define the months the system will be operated to allow operational flexibility.
128		provide justification for solely operating at the minimum to be approved at ADEQ's discretion. Additionally, please provide what months the system is intended to be operational.	
	Appendix G – SVE O&M Manual	Appendix G, Page 29 (and throughout), Section 6.3: Pulsed operation of SVE systems is an acceptable technique for steady state removal. Please provide statistical analyses (using the Mann-Kendall Method) to show that there is not a significant upward trend for any contaminants of concern being treated (influent and effluent).	Added language stating that if an alert level is exceeded additional measures, including statistical analysis will be taken.
129			

	Appendix G – SVE O&M	Appendix G, Page 30: The spent carbon profile expired in 2011. Please indicate when the profile will be updated. If the	Updated text to provide the current profile expiration date.
420	Manual	profile has been updated since 2011, update this section.	
130	Appendix G –	Appendix G, Attachment E: Has there been updated data	Added language to Section 2.6.4 discussing
	SVE O&M	collection and calculations for the solar intensity/solar panel	monitoring of solar array performance and
	Manual	efficiency since 2011? If yes, attach the updated calculations.	actions that would be taken if efficiency is
		If no, provide explanation for why this data is still valid for	below acceptable limits.
		2022 or explain how UA plans to update the calculations.	
131			
	Appendix H –	Appendix H, General: Add highlights to any result that	There has not been any exceedances for the
	Historical Groundwater	exceeds an alert level (if applicable).	past 10 year permit period.
	Analytical		
132	Results		
	Appendix H –	Appendix H, Table H-16: Correct formatting to stop the table	Complete
	Historical	from being cut-off.	
	Groundwater		
	Analytical		
133	Results		
	Appendix I – Summary of Soil	Appendix I, General: Add highlights to any result that exceeds an alert level (if applicable)	Highlights have been added to results that exceeded alert levels. These exceedences
	Vapor and SVE	exceeds all alert level (ii applicable)	occurred with the influent samples in 2011 and
	System		2012 and were addressed in the semi-annual
134	Analytical Data		reports for those years.
	Appendix I –	Appendix I, General: Make sure formatting for each table is	Complete
	Summary of Soil	correct and that no portion of the tables are cut off (i.e Table	
	Vapor and SVE	1-12)	
405	System		
135	Analytical Data		
	Appendix I – Summary of Soil	Appendix I, General: Please include monitoring data (from the soil vapor monitoring wells) from 2012 to 2021 like	This Appendix has been updated to include all soil vapor data.
	Vapor and SVE	Appendix H for the groundwater monitoring wells. This can	Suii vapui uata.
	System	be interspersed with the influent/effluent data or can be all	
136	Analytical Data	together after the influent/effluent data.	

		Harmon Harlib Birls Assessment Connects ADEO connects	to and destinate house health with
			s to conducting a human health risk
		·	nt under a schedule of compliance to
		(HHRA) for PTRL. If UA does not have a recent HHRA the permi	it.
		(updated within the last two years) that addresses data gaps	
		·	ose to prepare a risk assessment work
		·	ADEQ approval prior to
		·	ntation. This will include a detailed
		9 , ,	n of the procedures and methodology
			lemented, including specific details for
			ow soil gas survey.
		review time and contractor review costs. This schedule of	
		compliance order will be in accordance with R18-8-270.A (40 As part of	f this response, we would like to
		CFR §270.32(b)(2) and §270.33) and will dictate when UA is specify a	few qualifiers for the risk assessment
		required to submit the scope of work, workplans and project approach	as follows:
		schedule, draft HHRA, and the final, certified HHRA.	
	Appendix K –	1) \	We propose to conduct the PFAS
	Human Health	UA requested that ADEQ provide general items to include in	sampling as part of the next sampling
	Risk Assessment	the updated HHRA. At a minimum, ADEQ would like to see	event (April/May 2022) and then
	RISK ASSESSMENT	the following addressed:	discontinue if the results indicate there
		i	s not PFAS present.
		(a) An analysis of data gaps from the 2009 report.	We propose to conduct 13 soil
		This can be attached to the scope of work	sampling points instead of the 26
		submittal for review.	suggested. This spacing is consistent
		1	with other typical soil vapor intrusion
		(b) Analysis of the past 10 years of routine soil	evaluations.
		vapor and groundwater monitoring data 3) \	We propose to conduct the soil gas
		(including statistical analysis via Mann-Kendall	survey on one occasion just before
		•	system start up, which would be the
		·	most conservative approach. If
			concentrations are such that soil vapor
			s not an intrusion concern, a second
		·	round of sampling would not be
			performed. Further, we do not
137		high wind events, etc.)	,

- (d) Update the exposure model and risk calculations using up to date data (including data taken during the HHRA update).
- (e) Sampling and analysis of VOC emissions from SVE vents.
- (f) Sampling and analysis of the groundwater wells for PFAS alongside the routine groundwater monitoring.
- (g) Sampling and analysis of soil vapor in shallow soils along the perimeter of the landfill for VOCs and radioactivity (radioactivity via soil vapor analysis or via field testing).
 - ADEQ proposes that soil vapor samples be taken at a depth of 5 to 10 ft below ground surface on approximately 100 ft centers around the perimeter of the landfill. Four additional samples should be taken at the interior of the site, near the landfill units, for comparison to perimeter values. A map with ADEQ's proposed conceptual sampling locations is transmitted with this letter, overlaid on the previous soil vapor study for comparison.
 - Include dialogue comparing the updated shallow soil vapor samples to the ones taken in 2007. Are concentrations increasing or decreasing at the landfill's perimeter?

- anticipate seasonal variation in this environment.
- 4) We propose to use the last five years of soil vapor and groundwater data for the risk assessment. This would be the most representative of current conditions.
- 5) We are not opposed to testing for radon assuming that there is a viable method that would allow us to collect representative samples. We would also want to make sure that we can establish a regional background level, as radon is naturally occurring in this area.

		Is the SVE system operating sufficiently		
		enough to prevent further releases at		
		the perimeter and be protective of		
		human health if development was to		
		occur closer to the landfill?		
		(h) Samples and analyses should account for		
		seasonal variability that has potential to affect		
		soil gas VOC concentrations (including		
		temperature and moisture content of shallow		
		soils). ADEQ recommends doing the above		
		sampling and analyses twice (i.e. spring and fall		
		or summer and winter).		
		If UA disagrees with any of the above proposed updates,		
		please recommend an alternative approach with a technical		
		explanation detailing why the alternate approach is equally		
		sufficient in identifying potential human health and		
		environmental risks. If UA has any questions regarding		
		ADEQ's reasoning behind the proposed updates, please		
		reach out to Gav Orman via phone at (602) 771-8727 or via		
		email at <u>orman.gav@azdeq.gov</u> .		
		Appendix L, General: Was this document adapted and	For reference, AMEC became Wood in 2018.	
		updated from the one done by AMEC? First paragraph feels		
	Appendix L – Development of	misleading – if this is a repeat of the same document	This document was inadvertently updated to	
		produced by AMEC, please indicate what has been updated	the Wood letterhead and draft application	
	Operational	and make sure it's very clear when this work was done. If it	submittal date. This document should not have	
	Parameters for	was updated and adapted by Wood in 2021, please change	been updated as no changes were made to the	
	SVE System	the old information to be in past tense.	original document.	
	OT L OYSECITI			
			The original sealed document is being	
138			submitted with this version of the application.	
	Appendix L –	Appendix L, General: If this document was updated, please	See comment above.	
139	Development of	alter the text of Section 2.0 to be accurate for the current		

	Operational	state. Particularly, the sentence "Operating the SVE system is		
	Parameters for	_ · · · · · · · · · · · · · · · · · · ·		
		not required by the current RCRA permit" should be altered		
	SVE System	to show that the SVE system is required per the 2012 permit.		
	Appendix L –	Appendix L, Page 12: The last sentence before Section 5.3	The value of 9.3 scfm in the semi-annual	
	Development of	states 9.2 scfm, but should either state 9.25 scfm or 9.3 scfm.	reporting. No changes have been made to this	
	Operational	Please correct.	document.	
	Parameters for			
140	SVE System			
	Appendix L –	Appendix L, Table 2: Are hydraulic conductivity values	The values came from the original model inputs	
	Development of	provided in this table the actual values (identified based on	developed by HGC, which was based upon site	
	Operational	data taken), or are they theoretical/estimated? Please clarify.	specific soil data.	
	Parameters for			
141	SVE System			
	Appendix L –	Appendix L, Figures: Remove "Draft" from figures and other	This is no longer applicable. The original	
	Development of	tables	document does not contain draft figures.	
	Operational			
	Parameters for			
142	SVE System			
	A man and div. O	Appendix Q, Section 4.d: Correct formatting of second	Formatting has been corrected.	
	Appendix Q –	paragraph.		
143	Training Plan			
		Appendix Q, Exhibit 2 and 3: These exhibits were not	Exhibits are attached.	
	Appendix Q –	included in the electronic copy. Please add them to the		
	Training Plan	document.		
144				



University Services Annex Building 300B 220 W. Sixth St., 2nd Floor P.O. Box 210300 Tucson, AZ 85721-0300 (520) 621-1790 Fax: (520) 621-3706 http://risk.arizona.edu/

August 16, 2021

Ms. Gav Orman- Hazardous Waste Permits & Support Unit Arizona Department of Environmental Quality 1110 West Washington Street Phoenix, Arizona 85007

Subject: Post-Closure Permit Renewal – Notice of Intent to Apply
Page Trowbridge Ranch Landfill – EPA ID No. AZD 980 665 814

Dear Ms. Orman.

In accordance with AAC R18-8-270.A, this letter represents Notice of Intent from the University of Arizona to apply for renewal of the Post-Closure Permit for the Page-Trowbridge Ranch Landfill. The University of Arizona and the Arizona Department of Administration, Risk Management Division will be utilizing the consulting engineering services of Wood Environmental for preparation of the permit renewal application.

A renewal application for permit renewal will be submitted to ADEQ for review no later than December 31, 2021. The UA will provide to ADEQ the required application fee of \$20,000 and acknowledges the associated review fees charged at a rate of \$136.00 per hour.

We do wish to schedule an administrative completeness review meeting with your office, UA, ADOA-RMD, and representatives from Wood Environmental. We would like to schedule this meeting in advance of the application submittal to review the expiring permit, and identify any areas of emphasis or concern to ADEQ so these can be addressed in the application.

Best regards,

Steve Holland ARM CRM DRM

Chief Risk Officer, University of Arizona

Cc: Erik Lohman, Doug Brown - ADOA-RMD

Julie Hamilton, Doug Fisher - Wood Environmental

Jeff Christensen, Herb Wagner - UA Risk Management



Gavrielle Orman <orman.gav@azdeq.gov>

RE: [EXT]Transmittal of Notice of Deficiencies for Page-Trowbridge Ranch Landfill's **Permit Application**

1 message

Delgado, Miguel - (mdelgado1) < mdelgado1@arizona.edu> To: Gavrielle Orman <orman.gav@azdeq.gov>

Wed, Mar 2, 2022 at 12:59 PM

Hi Gav,

Thanks for the FYI on the application fee. We can briefly discuss this during tomorrow's meeting.

As for the meeting- Here is a list of the particular bullet points in the NOD that we would like to discuss/seek clarification:

- 25
- 26/129
- 51
- 52/60
- 115
- 137

Thanks again, have a nice afternoon!

Miguel



Miguel O. Delgado, ARM-P, CRM, AINS

Chief Risk Officer Risk Management Services THE UNIVERSITY OF ARIZONA

University Services Annex West, B250 PO Box 210300 | Tucson, AZ 85721 Office: 520-621-5392 mdelgado1@arizona.edu risk.arizona.edu/

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Integrity · Compassion · Exploration Adaptation • Inclusion • Determination From: Gavrielle Orman <orman.gav@azdeq.gov>

Sent: Tuesday, March 1, 2022 2:22 PM

To: Delgado, Miguel - (mdelgado1) < mdelgado1@arizona.edu>

Subject: Re: [EXT]Transmittal of Notice of Deficiencies for Page-Trowbridge Ranch Landfill's Permit Application

External Email

Miguel,

Hope you're having a good week as well. Sounds good to me - looking forward to touching base with you all!

FYI, the application fee of \$20,000 was exhausted as of 2/28, so UA will begin receiving bills for this permit application starting at the end of March. We can discuss more Thursday if you'd like to!

Kind Regards,

Gav Orman

Permit Writer/Pollution Prevention Engineer

Hazardous Waste Permits & Support Unit

Phone: (602) 771-8727



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On Tue, Mar 1, 2022 at 2:12 PM Delgado, Miguel - (mdelgado1) <mdelgado1@arizona.edu> wrote:

Hi Gav,

I hope your week is going well. I believe we just want to discuss several of the items in the deficiencies and provide you with updates.

I don't believe it will be anything that you wouldn't be able to either answer immediately or research and get back with us.

Thanks, hope you're enjoying the beautiful weather!

Miguel



Miguel O. Delgado, ARM-P, CRM, AINS

Chief Risk Officer Risk Management Services THE UNIVERSITY OF ARIZONA

University Services Annex West, B250 PO Box 210300 | Tucson, AZ 85721 Office: 520-621-5392 mdelgado1@arizona.edu risk.arizona.edu/ facebook | twitter | instagram | linkedin

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From: Gavrielle Orman <orman.gav@azdeq.gov>

Sent: Tuesday, March 1, 2022 2:07 PM

To: Delgado, Miguel - (mdelgado1) <mdelgado1@arizona.edu>

Subject: Re: [EXT]Transmittal of Notice of Deficiencies for Page-Trowbridge Ranch Landfill's Permit Application

External Email

Good afternoon, Miguel!

Do you have an agenda prepared for our meeting on Thursday? Or an idea of what you'd like to discuss/have questions about?

I want to make sure I come prepared to answer! Thanks.

Kind Regards,

Gav Orman

Permit Writer/Pollution Prevention Engineer

Hazardous Waste Permits & Support Unit

Phone: (602) 771-8727



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On Fri, Feb 18, 2022 at 1:22 PM Delgado, Miguel - (mdelgado1) <mdelgado1@arizona.edu> wrote:

Hi Gav,

Happy Friday! Let's go with 3:00PM – 4:00PM. Doug Brown and Erik Lohman from ADOA (copied) are planning to join the call as well. I will send a Zoom invitation shortly.

We can prepare an agenda for the meeting.

Also, after internal discussions, we have decided not to hold any formal meetings/open houses at PTRL prior to the public comment period.

Thanks, have a nice weekend! Miguel



Miguel O. Delgado, ARM-P, CRM, AINS

Chief Risk Officer Risk Management Services THE UNIVERSITY OF ARIZONA

University Services Annex West, B250 PO Box 210300 | Tucson, AZ 85721 Office: 520-621-5392 mdelgado1@arizona.edu/ risk.arizona.edu/ facebook | twitter | instagram | linkedin

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Integrity · Compassion · Exploration Adaptation · Inclusion · Determination From: Gavrielle Orman <orman.gav@azdeq.gov>

Sent: Thursday, February 17, 2022 3:37 PM To: Delgado, Miguel - (mdelgado1) <mdelgado1@arizona.edu>

Cc: Jessica Kohls <kohls.jessica@azdeq.gov>; Christensen, Jeffrey G - (jgchrist) <jgchrist@arizona.edu>;

Hamilton, Julie <julie.hamilton@woodplc.com>; Fisher, Douglas <douglas.fisher@woodplc.com>

Subject: Re: [EXT]Transmittal of Notice of Deficiencies for Page-Trowbridge Ranch Landfill's Permit Application

External Email

Miguel,

My week is going well and I hope yours is as well.

My March 3rd availability is:

- 8:00 to 11:30 am
- 2:30 to 4:00 pm

If that doesn't work, I'm pretty open March 1st and March 4th as well.

Let me know the availability of the group and I can set up a virtual meeting (via Google Meets) for that day! If that doesn't work, feel free to suggest other meeting methods. Will you be providing an agenda for the meeting, or would you like me to?

Kind Regards,

Gav Orman

Permit Writer/Pollution Prevention Engineer

Hazardous Waste Permits & Support Unit Phone: (602) 771-8727



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On Thu, Feb 17, 2022 at 3:15 PM Delgado, Miguel - (mdelgado1) <mdelgado1@arizona.edu> wrote:

Good afternoon Gav,

I hope your week is going well. Thank you for sending over the formal NOD.

We would like to schedule a meeting with you in early March to discuss some of the deficiencies. At least for me, Thursday, March 3rd is fairly wide open. Do you have availability on 3/3?

Also, we have not made a formal decision on holding a meeting/educational open house at PTRL prior to the public comment period. Let me talk with our stakeholders and I will get back to you sooner than later.

Take care.

Miguel



Miguel O. Delgado, ARM-P, CRM, AINS

Chief Risk Officer Risk Management Services THE UNIVERSITY OF ARIZONA

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From: Gavrielle Orman <orman.gav@azdeq.gov> Sent: Thursday, February 17, 2022 11:27 AM

To: Delgado, Miguel - (mdelgado1) <mdelgado1@arizona.edu>

Cc: Jessica Kohls <kohls.jessica@azdeq.gov>; Christensen, Jeffrey G - (jgchrist) <jgchrist@arizona.edu>;

Hamilton, Julie <julie.hamilton@woodplc.com>; Fisher, Douglas <douglas.fisher@woodplc.com>

Subject: [EXT]Transmittal of Notice of Deficiencies for Page-Trowbridge Ranch Landfill's Permit Application

External Email

Good morning Miguel,

Attached you'll find the formal NOD for Page-Trowbridge Ranch Landfill's Post-Closure Renewal Permit Application. This sets a response date of March 21, 2022 and pauses the LTF clock until a response is received.

If you have any questions regarding this (logistically or substantially) please reach out to me, I'm happy to explain further!

Response to this NOD should be submitted electronically with both the clean PDF and tracked changes Word copies of each section and attachment. Once these are re-submitted, I will re-review to confirm the comments have been addressed. If I approve all the sections/attachments, I will request UA to send a complete physical copy of the approved application to ADEQ's office for the public comment record. Until then, please only respond electronically with the file types requested. If you have any questions or concerns regarding these comments, please give me a call!

Has UA given additional thought to potentially holding a meeting or an educational open house at PTRL prior to public comment? Last we spoke, we were on the fence about holding a pre-public comment meeting and I'm curious if you've come to a final decision on this. If you have any questions regarding the next steps in the permitting process, let me know. After I receive the response to these comments, I will put together the draft permit/administrative record for UA and EPA review.

Kind Regards,

Gav Orman

Permit Writer/Pollution Prevention Engineer

Hazardous Waste Permits & Support Unit Phone: (602) 771-8727



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NOTIFICATIONS TO CITY OF TUCSON AND PINAL COUNTY





December 20, 2021 REF: HWP-EX3467

Leo Lew, County Manager Pinal County PO Box 827 Florence, Arizona 85132

Re: ARS §49-111 Notification; University of Arizona, Page-Trowbridge Ranch Landfill; T9S R14 SEC S27 N24, Tucson, Arizona 85721; EPA ID # AZD 980 665 814; Place ID No. 3166; LTF ID # 92382.

Dear Mr. Lew:

This letter is in accordance with Arizona Revised Statutes (A.R.S.) §49-111, which requires the Arizona Department of Environmental Quality (ADEQ) to notify appropriate city or county jurisdictions following receipt of a permit application. This letter is for information purposes only, and no response is expected nor required.

On December 15, 2021, University of Arizona (UA) submitted a permit application to renew the post-closure hazardous waste permit for Page-Trowbridge Ranch Landfill (PTRL) to ADEQ. PTRL is located at T9S, R14, SEC S27, N24 in Tucson, Arizona.

UA currently maintains PTRL's post-closure care including groundwater monitoring and soil vapor monitoring of the closed landfill cells. Upon ADEQ's approval of the hazardous waste renewal permit application, UA will continue to maintain PTRL's post-closure care for another ten years.

If you have any questions, please contact me via phone at (602) 771-8727 or by email at orman.gav@azdeq.gov.

Sincerely,

Gav Orman

Environmental Engineering Specialist Hazardous Waste Permits and Support Unit

Waste Programs Division

(520) 628-6733





December 20, 2021 REF: HWP-EX3468

Tascha Spears, Public Health Director Pinal County PO Box 2945 Florence, Arizona 85132

Re: ARS §49-111 Notification; University of Arizona, Page-Trowbridge Ranch Landfill; T9S R14 SEC S27 N24, Tucson, Arizona 85721; EPA ID # AZD 980 665 814; Place ID No. 3166; LTF ID # 92382.

Dear Dr. Spears:

This letter is in accordance with Arizona Revised Statutes (A.R.S.) §49-111, which requires the Arizona Department of Environmental Quality (ADEQ) to notify appropriate city or county jurisdictions following receipt of a permit application. This letter is for information purposes only, and no response is expected nor required.

On December 15, 2021, University of Arizona (UA) submitted a permit application to renew the post-closure hazardous waste permit for Page-Trowbridge Ranch Landfill (PTRL) to ADEQ. PTRL is located at T9S, R14, SEC S27, N24 in Tucson, Arizona.

UA currently maintains PTRL's post-closure care including groundwater monitoring and soil vapor monitoring of the closed landfill cells. Upon ADEQ's approval of the hazardous waste renewal permit application, UA will continue to maintain PTRL's post-closure care for another ten years.

If you have any questions, please contact me via phone at (602) 771-8727 or by email at orman.gav@azdeq.gov.

Sincerely,

Gav Orman

Environmental Engineering Specialist Hazardous Waste Permits and Support Unit

Waste Programs Division





December 20, 2021 REF: HWP-EX3469

Governor

Regina Romero, Mayor City of Tucson 255 West Alameda Tucson, Arizona 85701

Re: ARS §49-111 Notification; University of Arizona, Page-Trowbridge Ranch Landfill; T9S R14 SEC S27 N24, Tucson, Arizona 85721; EPA ID # AZD 980 665 814; Place ID No. 3166; LTF ID # 92382.

Dear Ms. Romero:

This letter is in accordance with Arizona Revised Statutes (A.R.S.) §49-111, which requires the Arizona Department of Environmental Quality (ADEQ) to notify appropriate city or county jurisdictions following receipt of a permit application. This letter is for information purposes only, and no response is expected nor required.

On December 15, 2021, University of Arizona (UA) submitted a permit application to renew the post-closure hazardous waste permit for Page-Trowbridge Ranch Landfill (PTRL) to ADEQ. PTRL is located at T9S, R14, SEC S27, N24 in Tucson, Arizona.

UA currently maintains PTRL's post-closure care including groundwater monitoring and soil vapor monitoring of the closed landfill cells. Upon ADEQ's approval of the hazardous waste renewal permit application, UA will continue to maintain PTRL's post-closure care for another ten years.

If you have any questions, please contact me via phone at (602) 771-8727 or by email at orman.gav@azdeq.gov.

Sincerely,

Gav Orman

Environmental Engineering Specialist Hazardous Waste Permits and Support Unit

Waste Programs Division

(520) 628-6733





December 20, 2021 REF: HWP-EX3470

Governor

Michael Ortega, City Manager City of Tucson 255 West Alameda Tucson, Arizona 85701

Re: ARS §49-111 Notification; University of Arizona, Page-Trowbridge Ranch Landfill; T9S R14 SEC S27 N24, Tucson, Arizona 85721; EPA ID # AZD 980 665 814; Place ID No. 3166; LTF ID # 92382.

Dear Mr. Ortega:

This letter is in accordance with Arizona Revised Statutes (A.R.S.) §49-111, which requires the Arizona Department of Environmental Quality (ADEQ) to notify appropriate city or county jurisdictions following receipt of a permit application. This letter is for information purposes only, and no response is expected nor required.

On December 15, 2021, University of Arizona (UA) submitted a permit application to renew the post-closure hazardous waste permit for Page-Trowbridge Ranch Landfill (PTRL) to ADEQ. PTRL is located at T9S, R14, SEC S27, N24 in Tucson, Arizona.

UA currently maintains PTRL's post-closure care including groundwater monitoring and soil vapor monitoring of the closed landfill cells. Upon ADEQ's approval of the hazardous waste renewal permit application, UA will continue to maintain PTRL's post-closure care for another ten years.

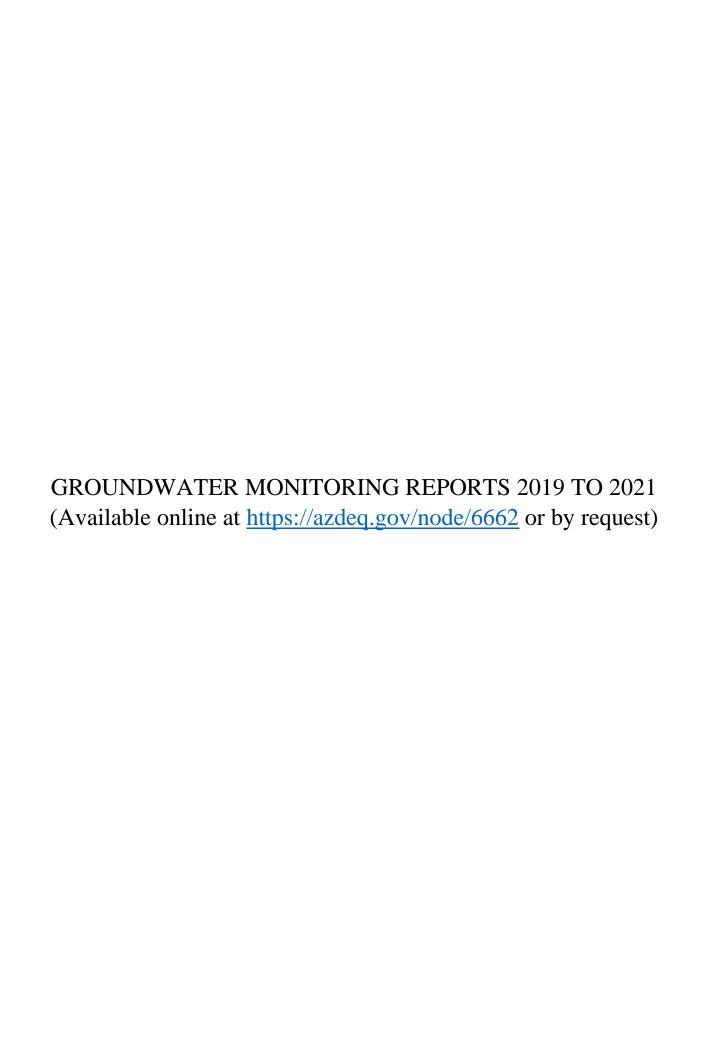
If you have any questions, please contact me via phone at (602) 771-8727 or by email at orman.gav@azdeq.gov.

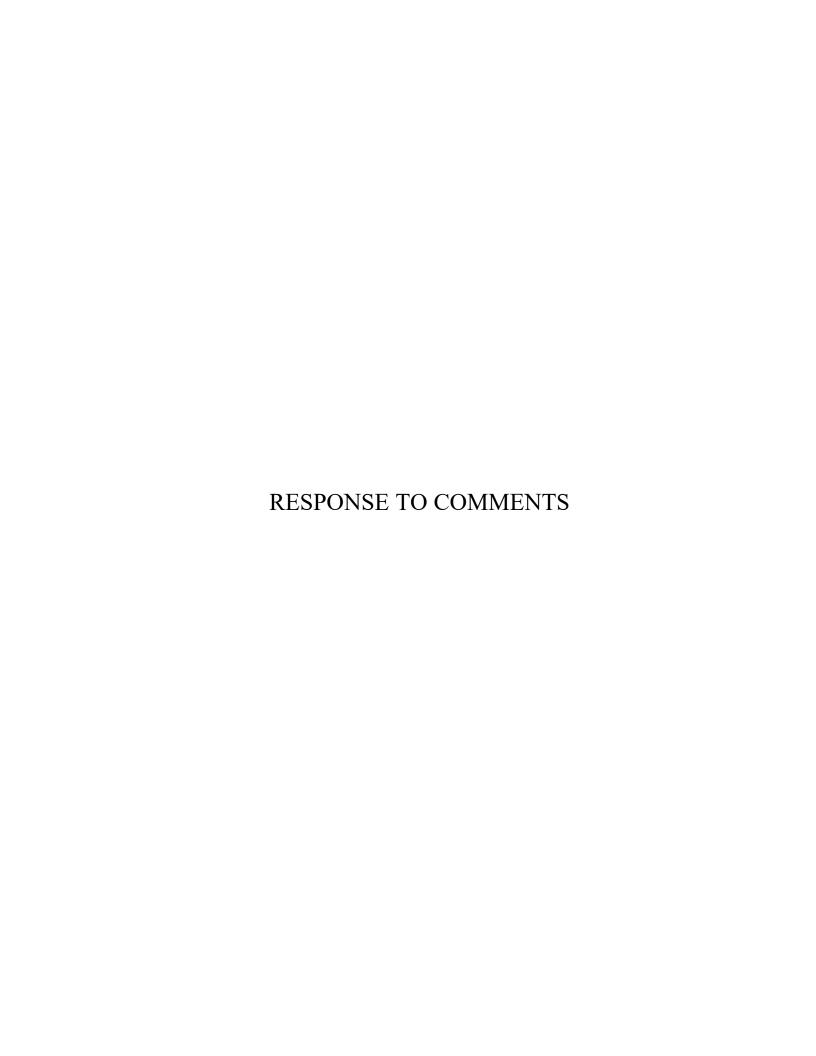
Sincerely,

Gav Orman

Environmental Engineering Specialist Hazardous Waste Permits and Support Unit

Waste Programs Division





RESPONSE TO COMMENTS SUMMARY FOR DRAFT HAZARDOUS WASTE PERMIT UNIVERSITY OF ARIZONA, PAGE-TROWBRIDGE RANCH LANDFILL EPA ID NO. AZD 980 665 814

Arizona Administrative Code (A.A.C) R18-8-271.O requires the Arizona Department of Environmental Quality (ADEQ) to respond to all significant comments made on any draft Permit within the public comment period. ADEQ has responded to all such comments in this Response to Comments (RTC) Summary.

On April 20, 2022, a public notice was posted in the *Arizona Daily Star* and *La Estrella de Tucson* announcing the public comment period for the draft hazardous waste permit for the Page-Trowbridge Ranch Landfill (PTRL) site owned by the University of Arizona (UA). The public notice was also published on ADEQ's webpage. PTRL is located approximately seven miles west of Oracle, AZ and thirty (30) miles north of Tucson. The public comment period opened on April 25, 2022 and closed on June 9, 2022. No comments were received.

ADEQ-Initiated Changes to the Final Permit

The following changes were made by ADEQ to the Final Permit. These changes are minor clarifications and corrections, and updates to remain consistent with State and Federal guidance. None of the changes are deemed to be significant enough to require a public notice or extension to the public comment period.

- 1. Approval/Cover Page has been edited to clarify the timeframe for the post-closure care period at PTRL "Post-closure care for PTRL began in 2001. The post-closure care period is for 30 years and begins on the effective date of this Permit. The Director may extend this post-closure care period if the Director finds that the extended period is necessary to protect human health and the environment. UA will be expected to submit a permit application to renew the post-closure care period 180-days prior to this Permit's expiration."
- 2. Added severability clause language as Permit Condition I.C.4 "The provisions of this Permit are severable, and if any provision of this Permit, or the application of any provision of this Permit to any circumstance, is held invalid, the application of such provision to other circumstances and the remainder of this Permit shall not be affected thereby. [A.A.C. R18-8-270.A and 40 CFR §124.16(a)]"
- 3. Edited Permit condition II.I.5 to reflect the 2-mile radius dictated in ADEQ's Substantive Policy Number 1103.2016 instead of the 1-mile radius included in the Draft Permit.
- 4. Added text to Permit Condition IV.B.2 to clarify operation of soil vapor extraction (SVE) system, in alignment with Attachment E of the Permit (SVE Operation and Maintenance)

University of Arizona Page-Trowbridge Ranch Landfill Hazardous Waste Permit EPA ID No. AZD 980 814 479 Response to Comments
June 2022
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- "The SVE system is still operated per the conditions of Permit Attachment E (Soil Vapor Extraction System Operation and Maintenance). The SVE system lessens the volume of VOC contaminated soil vapor by treating extracted soil vapor with granular activated carbon. In the event that there is an identified increase in contamination, actions will be taken to operate the SVE system more conservatively."