REDACTED VERSION

SIXTH FIVE-YEAR REVIEW REPORT FOR CAL WEST METALS SUPERFUND SITE SOCORRO COUNTY, NEW MEXICO

May 2025

Prepared by

U.S. Environmental Protection Agency
Region 6

100033343

Dallas, Texas

SIXTH FIVE-YEAR REVIEW REPORT
CAL WEST METALS SUPERFUND SITE
SOCORRO COUNTY, NEW MEXICO
EPA ID#: NMD097960272

This memorandum documents the U.S. Environmental Protection Agency's performance, determinations, and approval of the Cal West Metals Superfund Site (Site) sixth Five-Year Review under Section 121(c) of the Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S. Code Section 9621(c), as provided in the attached sixth Five-Year Review Report.

Summary of the Sixth Five-Year Review Report

The Site is a former battery breaking and recycling facility located one-half mile north of the town of Lemitar, in Socorro County, New Mexico. The Site was listed on the National Priorities List (NPL) on March 31, 1989. The Record of Decision (ROD) for the Site was signed on September 29, 1992. Site cleanup specified in the ROD included: (1) excavation of approximately 15,000 cubic yards of contaminated soils, sediments, and source waste materials with lead concentrations exceeding the health-based cleanup level of 640 mg/kg; (2) stabilization/solidification of that excavated material with cement; (3) disposal of the treated material in an on-site repository cell capped with concrete and covered with twelve inches of clean site soils, and; (4) annual sampling of four existing monitoring wells within the disposal area for five years after remedial work completion, followed by groundwater sampling every five years.

This is the sixth Five-Year Review of the Site (FYR). The purpose of a FYR is to evaluate the implementation and performance of a remedy to determine if the remedy is or will be protective of human health and the environment. The triggering action for this review was the signing of the previous review on May 7, 2020. No issues or recommendations were identified in this FYR. The overall Site remedy is functioning as designed. Public input on the FYR was solicited through a public notice in the El Defensor Chieftain on September 26, 2024. Public comments and/or Site interviews are included in Section IV, Community Notification, Involvement & Site Interviews.

Actions Needed

There are no additional actions needed for the remedy to be protective.

Determination

I have determined that the remedy for the Cal West Metals Superfund Site is protective of human health and the environment.

RONALD CROSSLAND

Digitally signed by RONALD CROSSLAND
Date: 2025.05.09 09:47:13 -05'00'

Ronald D. Crossland
Director
Superfund and Emergency Management Division
U.S. Environmental Protection Agency Region 6

ISSUES/RECOMMENDATIONS

SIXTH FIVE-YEAR REVIEW REPORT
CAL WEST METALS SUPERFUND SITE
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EPA ID#: NMD097960272

Issues/Recommendations
OU(s) without Issues/Recommendations Identified in the Five-Year Review:
OU1 – There were no issues identified during this FYR.

Table of Contents

LIST OF ABBREVIATIONS & ACRONYMS

amsl	above mean sea level
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
COC	Contaminant of Concern
EPA	United States Environmental Protection Agency
FYR	Five-Year Review
GWQB	Ground Water Quality Bureau
ICs	Institutional Controls
µg/dl	microgram per deciliter
mg/kg	milligram per kilogram
mg/L	milligram per liter
MCL	Maximum Contaminant Level
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NMED	New Mexico Environment Department
NMWQCC	New Mexico Water Quality Control Commission
NPDWR	National Primary Drinking Water Regulations
NPL	National Priorities List
NSDWR	National Secondary Drinking Water Regulations
O&M	Operation and Maintenance
OU	Operable Unit
PAH	Polycyclic Aromatic Hydrocarbon
PMDWCA	Polvadera Mutual Domestic Water Consumers Association
ppm	parts per million
PQL	Practical Quantitation Limit
RAO	Remedial Action Objectives
RI	Remedial Investigation
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
RPM	Remedial Project Manager
SMCL	Secondary Maximum Contaminant Level
SOS	Superfund Oversight Section
SSC	Superfund State Contract
TT	Treatment Technique
UU/UE	Unlimited Use and Unrestricted Exposure

I. INTRODUCTION

The purpose of a Five-Year Review (FYR) is to evaluate the implementation and performance of a remedy in order to determine if the remedy is and will continue to be protective of human health and the environment. The methods, findings, and conclusions of reviews are documented in FYR reports such as this one. In addition, FYR reports identify issues found during the review, if any, and document recommendations to address them.

The U.S. Environmental Protection Agency (EPA) is preparing this FYR pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Section 121, consistent with the National Contingency Plan (NCP)(40 CFR Section 300.430(f)(4)(ii)), and considering EPA policy.

This is the sixth FYR for the Cal West Metals Superfund Site. The triggering action for this statutory review is the completion date of the previous FYR. The FYR has been prepared due to the fact that hazardous substances, pollutants, or contaminants remain at the site above levels that allow for unlimited use and unrestricted exposure (UU/UE).

The Site consists of one Operable Unit (OU) that will be addressed in this FYR. The OU addresses the groundwater remedy.

The Cal West Metals Superfund Site FYR was led by Ms. Nichole Foster, the EPA-Remedial Project Manager (RPM). Participants included Ms. Rebecca Green and Mr. Joshua Faulconer of the New Mexico Environment Department (NMED), Ground Water Quality Bureau (GWQB), Superfund Oversight Section (SOS).

Site Background

Cal West Metals was a small-scale battery recycling facility and secondary lead smelter, operated by Albert and James LaPoint. The Site is located one-half mile north of the town of Lemitar in Socorro County, New Mexico and approximately eight miles north of Socorro, New Mexico as shown in Appendix F, Figure 1. The Site is bounded on the east by a frontage road for US Interstate 25. The Site covers approximately 43.8 acres of land, of which 12.5 acres are fenced. Former Site operations were located within the fenced area. The Site is also the location of a former cotton gin facility. Aerial photographs indicate that the cotton gin was active at least between 1961 and 1972. The Rio Grande is located approximately two miles east of the Site. The Site is located at an elevation of approximately 4,700 feet above mean sea level (amsl), within the northwest quadrant of the southwest quadrant of Section 2, Township 2 South, Range 1 West. The town of Lemitar, New Mexico has a population of 533 people. Land use in the area is predominantly residential. Three households are located approximately 1,100 feet south of the Site.

During historic operations as a battery breaking and recycling facility from the mid-1970s to the mid-1980s, an estimated 20,000 automobile batteries were processed at the Site to recover lead, plastics, and hard rubber components for commercial sale. Lead-acid batteries were crushed on-site, and the batteries were separated into plastics, hard rubber, and lead oxides. A flotation process and centrifugation in a rotating separator drum were used to separate the plastics, hard rubber, and lead fraction for recycling. Water was recycled through the separator drum and discharged with waste sludge through a discharge pipe into a lined storage pond. During the time that battery breaking operations were conducted, the discharge line became plugged, and sludge was disposed of on top of the concrete surface pad, located along the west side of the cotton gin building. Piles of crushed battery components, in various stages of separation, were stored outdoors from the start of operation in the mid-1970s until approximately 1989. The broken battery piles were stored inside the cotton gin building and stockpiled on the concrete pad adjacent (west) to the building.

The Site is currently owned by Mr. Shane Durkin. Mr. Durkin is the owner of Durkin Diesel, a company that specializes in diesel engine repairs and operates out of the Site. The company's main building is located near the southeast entrance of the Site.

SIXTH FIVE-YEAR REVIEW SUMMARY FORM

Site Name: Cal West Metals Superfund Site		
EPA ID: NMD097960272		
Region: 6	**State:** NM	**City/County:** Lemitar/Socorro County
NPL Status: Deleted		
Multiple OUs? No	**Has the site achieved construction completion?** Yes	
Lead agency: EPA ***[If "Other Federal Agency", enter Agency name]*:**		
Author name (Federal or State Project Manager): Nichole Foster, Remedial Project Manager		
Author affiliation: EPA Region 6		
Review period: 8/22/2024 – 5/7/2025		
Date of site inspection: 10/8/2024		
Type of review: Statutory		
Review number: 6		
Triggering action date: 5/7/2020		
Due date *(five years after triggering action date)*: 5/7/2025		

II. RESPONSE ACTION SUMMARY

The Site has been the subject of numerous Federal and State investigations and regulatory actions since 1979. From 1979 to 1985, NMED and its predecessor agency conducted investigations to assess air and groundwater quality. Preliminary investigations were conducted by NMED, EPA, and the LaPoints, from 1981 through 1989. The LaPoints operated a battery recycling facility on the Site from 1979 to 1981. NMED conducted a Site Inspection during August 1985 to characterize on-site wastes. This investigation identified concentrations of lead that exceeded screening levels established by EPA for lead in soil and sediment. Based on Site investigations conducted by EPA and NMED, the Site was proposed for inclusion on the CERCLA NPL (40 CFR Part 300 Appendix A) on June 24, 1988, and officially listed on the NPL on March 31, 1989.

During operations, the owners took out a Small Business Loan. In 1985, the owners declared bankruptcy and the property was foreclosed by the Small Business Administration (SBA). SBA took ownership of the property until the fall of 1997 when the City of Socorro bought the property. This involvement of the SBA has resulted in this site's classification as a Federal Facility, however there is no evidence of a signed agreement.

Basis for Taking Action

Lead, antimony, arsenic, cadmium, mercury, nickel, silver, thallium, polycyclic aromatic hydrocarbons (PAH) were the primary contaminants found in the battery and sludge sediment piles, in the site soil, and in the evaporation pond sediment samples collected during the remedial investigation (RI). Lead, the major contaminant of concern (COC), was found in concentrations as high as 537,000 parts per million (ppm) in the broken battery pile and 836,000 ppm in the waste sediment sludge.

The results of the baseline risk assessment indicate that existing conditions at the site posed, at the time of the risk assessment, an excess lifetime cancer risk of 2.4 x 10^{-4} through the routes of ingestion and dermal contact for onsite workers. The noncarcinogenic risk to on-site workers through ingestion was as high as 1.8 (Hazard Quotient).

For noncarcinogens (systemic toxicants), potential effects are evaluated by comparing an exposure level over a specified time period (e.g., exposure duration) with a reference dose (RfD) derived for a similar exposure period. An RfD represents a level that an individual may be exposed to that is not expected to cause any harmful effect. The ratio of predicted exposure and dose to the reference dose is called a hazard quotient (HQ). An HQ of less than 1 indicates that a receptor's dose of a single contaminant is less than the RfD, and that toxic noncarcinogenic effects from that chemical are unlikely. The Hazard Index (HI) is generated by adding the HQs for all COCs that affect the same target organ (e.g., liver) or that act through the same mechanism of action within a medium or across all media to which a given individual may reasonably be exposed. An HI of less than 1 indicates that, based on the sum of all HQs from different contaminants and exposure routes, toxic noncarcinogenic effects from all contaminants are unlikely. An HI greater than 1 indicates that site-related exposures may present a risk to human health. For future residential use, total hazard indices greater than one (1) were calculated for children and adults. The maximum calculated excess cancer for residential exposure to the semi-volatile organic compounds was 10 x 10^{-4}. For lead contamination, the results of the Uptake/Biokinetic model indicate that for all areas inside the fenced area, calculated theoretical blood lead levels, assuming future residential use, were above the target range of greater than 5% of the population, with blood lead levels above 10 micrograms per deciliter (µg/dl).

The Site is underlain by the Pliocene Sierra Ladrones Formation and Quaternary deposits (*see* Appendix B), which are not affected by Site contaminants. Groundwater samples collected during the RI from monitoring wells and residential wells did not indicate a groundwater release of hazardous substances, pollutants, or contaminants associated with the Site. Groundwater samples taken during this FYR support the RI finding that there is no impact on groundwater from Site contaminants. Additionally, samples collected during the RI at the two evaporation ponds and adjacent to the sludge waste sediments (concrete pad) did not indicate that lead or other hazardous substances, pollutants, or contaminants had migrated beyond the surface soil (6 inches below ground surface).

Response Actions

The Record of Decision (ROD) for the Site was signed on September 29, 1992. No amendments have been made to the ROD nor are there any anticipated changes. The purpose of the remedial action was to control risks posed by ingestion and direct contact with contaminated soils, sediments, and the source waste materials. The requirements as stated in the ROD for the Site are:

- Excavation of approximately 15,000 cubic yards of contaminated soils, sediments, and source waste materials with lead concentrations exceeding the residential exposure health-based cleanup level of 640 microgram per kilogram (mg/kg);
- Stabilization/solidification of that excavated material with cement;
- Disposal of the treated material in an on-site repository cell capped with concrete and covered with twelve inches of clean site soils;

- Annual sampling of four existing monitoring wells around the disposal area for five years after remedial work completion, followed by groundwater sampling every five years.

Soil remediation goals were established such that soil concentrations of the following contaminants of concern would not exceed the concentrations listed below:

- Lead: 640 ppm
- Antimony: 110 ppm
- Arsenic: 0.37 ppm
- Cadmium: 140 ppm
- Mercury: 82 ppm
- Polycyclic Aromatic Hydrocarbons: 3 ppm benzo(a)pyrene equivalents

Both New Mexico Water Quality Control Commission (NMWQCC) and EPA groundwater standards, including maximum contaminant levels (MCLs), treatment technique (TT), and secondary standards will be used to evaluate monitoring well sample results.

Status of Implementation

Cleanup at the site started on May 10, 1994, and was completed in April of 1995. Contaminated material was mixed with cement and water and was then deposited in an on-site repository cell, containment cell used during the cleanup process to safely store and manage contaminated materials. A total of 49,723 tons of material were treated to include: 1,028 tons of battery parts, 212 tons of sediment, and 48,483 tons of contaminated soil. The repository cell was covered with a three (3) inch thick concrete cap. The concrete cap had an average compressive strength of 4,317 pounds per square inch. The disposal area was covered with a minimum of 12 inches of clean soil.

IC Summary Table

Table 1: Summary of Planned and/or Implemented ICs

Media, engineered controls, and areas that do not support UU/UE based on current conditions	ICs Needed	ICs Called for in the Decision Documents	Impacted Parcel(s)	IC Objective	Title of IC Instrument Implemented and Date (or planned)
Repository cell	Yes	No	Repository cell	Notice not to disturb the repository cell	Restrictive Covenant implemented on October 5, 2005

Figure 1 indicates the location of the repository cell and represents the institutional control (IC) boundary. In October 2005, the City of Socorro placed a Restrictive Covenant on the Site to prevent future land use or excavation in the area of the repository cell.

Systems Operations/Operation & Maintenance

Operation and Maintenance (O&M) activities are performed to protect the integrity of the remedy at the Site. Pursuant to 40 CFR § 300.510(c)(1), NMED has assumed all responsibility for O&M at the Site. In accordance with the Superfund State Contract (SSC), one year after the completion of the remedy, NMED began sampling four groundwater monitoring wells annually from 1996 through 2000, followed by groundwater sampling every

five years. In addition to conducting groundwater sampling, NMED and EPA staff conducted a thorough walkthrough of the Repository cell ensuring adequate soil covers were in place, noting any areas of concern or damage to the cap.

III. PROGRESS SINCE THE LAST REVIEW

This section includes the protectiveness determinations and statements from the last five-year review as well as the recommendations from the last five-year review and the current status of those recommendations.

Table 2: Protectiveness Determinations/Statements from the 2020 FYR

OU #	Protectiveness Determination	Protectiveness Statement
1	Protective	The remedy at OU1 is protective of human health and the environment.
Sitewide	Protective	Because the remedial actions at OU1 (the only OU at the Site) are protective, the Site is protective of human health and the environment.

There were no issues, nor recommendations in the last FYR.

IV. FIVE-YEAR REVIEW PROCESS

Community Notification, Involvement & Site Interviews

A public notice was made available by a newspaper posting in the El Defensor Chieftain, on September 26, 2024, stating that there was a FYR and inviting the public to submit any comments to the U.S. EPA. The results of the review and the report will be made available at the Site information repository located at New Mexico Environment Department (NMED), 1190 St. Francis Dr., Santa Fe, NM 87505 and Socorro Public Library, 401 Park St., Socorro, NM 87801.

During the FYR process, interviews were conducted to document any perceived problems or successes with the remedy that has been implemented to date. The results of these interviews are summarized below.

Interview questionnaires (Appendix E) were filled out during in-person interviews with a local waitress, two farmers, a school janitor, and the owner at the Site in Lemitar, NM, on October 8, 2024. The local waitress and the farmers had never heard of the Cal West Metals Superfund Site. The school janitor and the Site owner expressed positivity that the Site has been cleaned up and is usable.

Data Review

Site data generated and reviewed during this sixth FYR period were groundwater elevation levels and analytical results for the groundwater samples collected from four Site monitoring wells (CWMW-7, CWMW-8, CWMW-9 and CWMW-10) on October 8, 2024. The contaminants of concern for the Site identified in the ROD are lead, antimony, arsenic, cadmium, mercury, nickel, silver, thallium, and PAHs. Appendix F, Figure 1 shows the Site location.

The groundwater gradient is nearly flat (0.0002 feet/feet) to the south/southwest. The groundwater elevation data collected during this FYR remains consistent with previous measurements. Appendix F, Figure 2 shows the potentiometric surface map, and monitoring well locations. Appendix F, Figure 3 through Figure 6 show the historical groundwater elevation trends of each of the four monitoring wells CWMW-7 through CWMW-10. Appendix F, Table 1 shows historical groundwater elevation data.

EPA has established National Primary Drinking Water Regulations (NPDWRs) that set mandatory water quality standards for drinking water contaminants. These are enforceable standards called "maximum contaminant levels" (MCLs), which are established to protect the public against consumption of drinking water contaminants that present a risk to human health. An MCL is the maximum allowable amount of a contaminant in drinking water which is delivered to the consumer.

In addition, EPA has established National Secondary Drinking Water Regulations (NSDWRs) that set non-mandatory water quality standards for 15 contaminants. EPA does not enforce these "secondary maximum contaminant levels" (SMCLs). They are established as guidelines to assist public water systems in managing their drinking water for aesthetic considerations, such as taste, color, and odor. These contaminants are not considered to present a risk to human health at the SMCL.

Groundwater samples were analyzed for total and dissolved metals using EPA Method 200.7 and Method 200.8, by the Eurofins Environment Testing South Central, LLC Laboratory in Albuquerque, New Mexico. Total metal analysis is performed on samples as they are received from the field, while dissolved samples are filtered prior to analysis to remove particulate matter. Total and dissolved mercury was analyzed using EPA Method 245.1.

Analytical results for the October 8, 2024, sampling event are summarized in Appendix F, Table 2. Appendix F, Table 3 shows the historical groundwater analytical data per well for dissolved and total metals. Overall, no samples were above EPA's standards for the contaminants of concern for the site.

Mercury, antimony, cadmium, nickel, and thallium were not detected above the laboratory reporting limits in any samples from October 8, 2024. No samples had concentrations of Site contaminates of concern above EPA MCLs. Arsenic (total and dissolved) was detected in samples from all the monitoring wells at concentrations below the EPA's MCL (0.010 milligrams per liter (mg/L)). The maximum concentration at the Site for arsenic (total) was at CWMW-8 (0.0076 mg/L). Lead (total and dissolved) was detected in samples from three of the four monitoring wells, CWMW-7, CWMW-8, and CWMW-9, at concentrations below the EPA's MCL for lead in drinking water (0.015 mg/L). The maximum concentration at the Site for lead (total) was at CWMW-7 (0.0036 mg/L). Silver (dissolved) was detected in samples from two of the four monitoring wells, CWMW-7 and CWMW-8, at concentrations below the EPA's MCL for silver in drinking water (0.05 mg/L). The maximum concentration at the Site for silver (dissolved) was at CWMW-7 (0.0052 mg/L). The detection of arsenic, lead, and silver do not appear to indicate an impact from metal contamination associated with the Site as they are consistent with historical groundwater monitoring results. CWMW-7 and CWMW-8 are located upgradient of the repository cell (Appendix F, Figure 2), and are used to represent naturally occurring concentrations.

Site Inspection

The inspection of the Site was conducted on October 8, 2024. In attendance were Ms. Nichole Foster, EPA Region 6, and Ms. Rebecca Green and Mr. Joshua Faulconer of the NMED. The purpose of the inspection was to assess the protectiveness of the remedy.

Monitor wells CWMW-7, CWMW-8, CWMW-9, and CWMW-10 were inspected for physical conditions. Well vaults were secured with padlocks. Bollards and concrete were in good condition. The entrance to the Site is limited to a metal gate located at the southeast corner. The metal gate is closed and locked when the business is closed. The fence around the perimeter of the property was in good condition. There was no evidence of ponding on the repository cell. There was no indication of animals burrowing in the area of the repository cell. No surface staining was observed during this inspection.

V. TECHNICAL ASSESSMENT

QUESTION A: Is the remedy functioning as intended by the decision documents?

Question A Summary:

The OU1/overall Site remedy is functioning as designed. The on-site repository cell is expected to continue to be an effective means of containment and there are no indications of impacts to the cell during this FYR. O&M procedures are working in a manner that will continue to maintain the effectiveness of the remedy. Institutional controls and access controls are in place and are proving to be effective in preventing exposure. Groundwater monitoring results continue to show that no impacts to groundwater have been observed at the Site.

QUESTION B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives (RAOs) used at the time of the remedy selection still valid?

Question B Summary:

Although there have been changes in toxicity data and cleanup levels since the time of the remedy selection, these changes do not impact protectiveness and protectiveness determinations are still valid. Amendments to the New Mexico Water Quality Control Commission (NMWQCC) groundwater standards took effect on December 21, 2018, during the last FYR.

Table 3 Identifies the regulatory standards from the ROD that were revised in December 21, 2018.

Table 3 - Regulatory Standards for Monitoring Water Related to Site Contamination
Regulatory standards that have been revised are highlighted in yellow next to the old standard which appears in brackets [ ]

Contaminant	NMWQCC GW Standard (mg/L)	MCL, TTLs or Secondary DW Standard (mg/L)
Arsenic	0.01 [0.1]	0.01
Barium	2 [1.0]	2
Beryllium	0.004 [No standard]	0.004
Cadmium	0.005 [0.01]	0.005
Copper	1 [No standard]	1(s)
Lead	0.015 [0.05]	0.015
Nickel	0.2	*

Notes: Revised standards are highlighted in yellow
[s] Secondary drinking water standard
* EPA remanded the MCL for nickel in 1995

The revised standards listed above do not affect the protectiveness of the remedy. In general, changes included lower NMWQCC standards to match EPA's MCLs (e.g., Arsenic reduced from 0.1 mg/L to 0.01 mg/L), and adding standards for some contaminants (e.g., Beryllium). The changes do not affect the protectiveness of the remedy because the lowest applicable standard has not changed.

The 1992 RI Report utilized the 1991 Lead Uptake/Biokinetic model. The target is a probability function showing 95% of the population with a blood-lead level less than 10 micrograms per deciliter (µg/dL). The model was re-run with varying soil concentration levels to determine when the target level would be met. An average concentration of lead in soil of 600 mg/kg resulted in 95% of the population with blood lead levels less than 10µg/dL. The current commercial/industrial screening level of lead in soil is 800 mg/kg. Based on current and future land use, industrial/commercial at the site, the remedy remains protective. However future residential use at the site would not be protective and additional risk calculations would be needed should land use change. This determination is in alignment with recently released Updated Solid Lead Guidance. On January 17, 2024,

EPA Office of Land and Emergency Management released the "Updated Residential Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities" (2024 Updated Soil Lead Guidance), which updates the residential soil lead screening level (RSL) and removal management level (RML) for the CERCLA and RCRA programs and provides additional guidance for setting residential lead preliminary remediation goals (PRGs) and cleanup levels. The 2024 Updated Soil Lead Guidance intended any areas where children have unrestricted access to lead contaminated soil which include, but are not limited to, properties containing single- and multi-family dwellings, apartment complexes, vacant lots in residential areas, schools, day-care centers, community centers, playgrounds, parks and other recreational areas and green ways.

Review of the groundwater analytical results revealed no major exceedances of the groundwater standards. Overall, the remedy has been reviewed and has been determined to remain protective.

QUESTION C: Has any **other** information come to light that could call into question the protectiveness of the remedy?

No other information that could call into question the protectiveness of the remedy has been obtained during this
FYR period.

VI. ISSUES/RECOMMENDATIONS

Issues/Recommendations
OU(s) without Issues/Recommendations Identified in the Five-Year Review:
OU1 – There were no issues identified during the FYR.

OTHER FINDINGS

There are no other recommendations identified during this FYR.

VII. PROTECTIVNESS STATEMENT

Protectiveness Statement(s)		
Operable Unit: OU1	*Protectiveness Determination:* Protective	*Planned Addendum Completion Date:* Click here to enter a date
Protectiveness Statement: The remedy at OU1 is protective of human health and the environment.		

Sitewide Protectiveness Statement	
Protectiveness Determination: Protective	*Planned Addendum Completion Date:* Click here to enter a date

Protectiveness Statement: Because the remedy at OU1 (the only OU at the Site) is protective, the Site is protective of human health and the environment.

VIII. NEXT REVIEW

The next five-year review report for the Cal West Metals Superfund Site is required five years from the completion date of this review, May 2030.

APPENDIX A – REFERENCE LIST

EPA, 2020. Fifth Five-Year Review Report. May 7, 2020.

EPA, 2015. Fourth Five-Year Review Report. June 19, 2015.

EPA, 2010. Third Five-Year Review Report. September 24, 2010.

EPA, 2005. Second Five-Year Review Report. September 19, 2005.

EPA, 2001. Comprehensive Five-Year Review Guidance. EPA540R-98-050, OSWER Directive 9335.7-03B-P. June 2001.

EPA, 2000. First Five-Year Review Report. September 20, 2000.

EPA, 1995. Final Closeout Report for Cal West Metals. June 1996.

EPA, 1992. September 29, 1992. Record of Decision for the Cal West Metals Superfund Site. September 29, 1992.

NMED, Field Log Book Entries 1996-2024.

NMED, 1997. Operation and Maintenance Manual. March 21, 1997.

NMED, 1992. Remedial Investigation/Feasibility Study Phase II. April 23, 1992.

NMED, 1990. Remedial Investigation/Feasibility Study Phase I.

NMED, 1986. Site Inspection Follow-up.

NMED, 1985. CERCLA Site Inspection. August 1985.

WasteLan (CERCLIS)

APPENDIX B – SITE BACKGROUND

BACKGROUND

Hydrology

The Site is located within the Socorro Basin portion of the Rio Grande Rift, a major structural depression which extends from central Colorado to northern Mexico. The Site is situated on the northwest margin of the Socorro Basin which slopes eastward from the Lemitar Mountains to the Rio Grande floodplain. A buried high angle reverse fault trends north-south along the Lemitar Mountains approximately one mile east of the Site.

The upper shallow aquifer is composed of the Pliocene Sierra Ladrones Formation and Quaternary deposits. The Sierra Ladrones aquifer is the most important source of groundwater in the region. Sierra Ladrones deposits are composed of fine to coarse-grained sandstones and pebble conglomerate interfingered with beds of mud, silt, and sand. The Quaternary deposits consist primarily of conglomerates and sandstones. The thickness and extent of the shallow aquifer is estimated to be greater than 1,000 feet thick in the Socorro Basin. No wells in the Socorro Basin are known to be completed in zones deeper than the shallow aquifer (Remedial Investigation/Feasibility Study (RI/FS) report).

Land and Resource Use

Groundwater from the upper shallow aquifer of the Sierra Ladrones Formation is used by the Polvadera Mutual Domestic Water Consumers Association (PMDWCA). The PMDWCA has 722 service connections and serves a population of 2,470. There are five drinking municipal water wells of which four wells are active. PMDWCA municipal Well # 3 is located approximately 0.8 miles south/southwest from the Cal West Metals site. See Appendix F, Figure 7 for the location of the PMDWCA municipal wells in relationship to the Site. None of these wells are impacted by Site contaminants.

APPENDIX C – SITE CHRONOLOGY
SITE CHRONOLOGY

Table B-1: Site Chronology

Event	Date
Initial discovery of problem or contamination	7/01/81
Final NPL listing	3/31/89
Remedial Investigation/Feasibility Study complete	9/29/92
ROD signature	9/29/92
Remedial design start	9/29/92
Remedial design complete	9/29/93
Superfund State Contract, Cooperative Agreement, or Federal Facility Agreement signature	9/24/93
On-site remedial action construction start	5/94
RA Construction completion	4/95
Deletion from NPL (if applicable)	12/96
First Five-Year Review	9/25/00
Second Five-Year Review	9/19/05
Third Five-Year Review	9/24/10
Fourth Five-Year Review	6/19/15
Fifth Five-Year Review groundwater sampling	8/8/19
Fifth Five-Year Review	5/7/20
Sixth Five-Year Review groundwater sampling	10/8/24
Sixth Five-Year Review	5/7/25

APPENDIX D – SITE INSPECTION CHECKLIST

I. SITE INFORMATION

Site name: Cal West Metals	**Date of inspection:10/8/24**
Location and Region: Lemitar, New Mexico/Region 6	**EPA ID:NMD097960272**
Agency, office, or company leading the five-year review: NMED	**Weather/temperature: Clear, breezy, 70°F**

Remedy Includes: (Check all that apply)

□ Landfill cover/containment □ Monitored natural attenuation
□ Access controls □ Groundwater containment
□ Institutional controls □ Vertical barrier walls
□ Groundwater pump and treatment
□ Surface water collection and treatment
☒ Other Excavation and treatment by stabilization/solidification to meet the treatment standards defined in the ROD of approximately 15,000 cubic yards of contaminated soils, sediments, and source materials; Disposal of the treated contaminated material in an on-site repository; Monitoring site groundwater with four monitoring wells.

Attachments: □ Inspection team roster attached ☒ Site map attached

II. INTERVIEWS (Check all that apply)

1. **O&M site manager** No O&M Site Manager or Staff _____ _____
   Name Title Date
   Interviewed □ at site □ at office □ by phone Phone no. _____
   Problems, suggestions; □ Report attached
   _____

2. **O&M staff** No O&M Site Manager or Staff _____ _____
   Name Title Date
   Interviewed □ at site □ at office □ by phone Phone no. _____
   Problems, suggestions; □ Report attached
   _____

3. **Local regulatory authorities and response agencies** (i.e., State and Tribal offices, emergency response office, police department, office of public health or environmental health, zoning office, recorder of deeds, or other city and county offices, etc.) Fill in all that apply.
   Agency No local regulatory authorities and response agencies are needed for the Site.
   Contact _____ _____ _____ _____
   Name Title Date Phone no.
   Problems; suggestions; □ Report attached
   _____
   Agency _____
   Contact _____ _____ _____ _____
   Name Title Date Phone no.
   Problems; suggestions; □ Report attached
   _____

4. **Other interviews** (optional) ☒ Report attached.

Interviews are included in Appendix E

III. ON-SITE DOCUMENTS & RECORDS VERIFIED (Check all that apply)

1. O&M Documents

☒ O&M manual ☒ Readily available ☒ Up to date □ N/A

□ As-built drawings □ Readily available □ Up to date ☒ N/A

□ Maintenance logs □ Readily available □ Up to date ☒ N/A

Remarks O&M manual available in the Site files located at the NMED/SOS office located in Santa Fe, New Mexico.

2. Site-Specific Health and Safety Plan ☒ Readily available ☒ Up to date □ N/A

Contingency plan/emergency response plan □ Readily available □ Up to date ☒ N/A

Remarks Site Specific Health and Safety Plan available in the Site files located at the NMED/SOS office located in Santa Fe, New Mexico

3. O&M and OSHA Training Records ☐ Readily available ☐ Up to date ☒ N/A

Remarks No O&M or OSHA Training Records Agreements needed at site.

4. Permits and Service Agreements

□ Air discharge permit □ Readily available □ Up to date ☒ N/A

□ Effluent discharge □ Readily available □ Up to date ☒ N/A

□ Waste disposal, POTW □ Readily available □ Up to date ☒ N/A

□ Other permits □ Readily available □ Up to date ☒ N/A

Remarks No Permits or Service Agreements needed at site.

5. Gas Generation Records □ Readily available □ Up to date ☒ N/A

Remarks

6. Settlement Monument Records □ Readily available □ Up to date ☒ N/A

Remarks

7. Groundwater Monitoring Records ☒ Readily available □ Up to date □ N/A

Remarks Groundwater monitoring records available in the Site files located at the NMED/SOS office located in Santa Fe, New Mexico.

8. Leachate Extraction Records □ Readily available □ Up to date ☒ N/A

Remarks

9. Discharge Compliance Records

□ Air □ Readily available □ Up to date ☒ N/A

□ Water (effluent) □ Readily available □ Up to date ☒ N/A

Remarks_____

10. Daily Access/Security Logs □ Readily available □ Up to date ☒ N/A

Remarks_____

IV. O&M COSTS

1. O&M Organization

☒ State in-house □ Contractor for State

□ PRP in-house □ Contractor for PRP

□ Federal Facility in-house □ Contractor for Federal Facility

□ Other_____

2. O&M Cost Records

☒ Readily available ☒ Up to date

☒ Funding mechanism/agreement in place
Original O&M cost estimate_____$5,000_____ □ Breakdown attached
Total annual cost by year for review period if available
From___2020___ To___2024___ _____<$1,000_____ □ Breakdown attached
Date Date Total cost
From_____ To_____ _____ □ Breakdown attached
Date Date Total cost

3. Unanticipated or Unusually High O&M Costs During Review Period
Describe costs and reasons: ___None_____

V. ACCESS AND INSTITUTIONAL CONTROLS ☒ Applicable □ N/A

A. Fencing

1. Fencing damaged □ Location shown on site map ☒ Gates secured □ N/A
Remarks The perimeter of the Site is fenced. The fence is in good condition. Access to the Site is restricted to a main gate to the facility and a second side gate located on the southern side of the property.

B. Other Access Restrictions

1. Signs and other security measures □ Location shown on site map ☐ N/A
Remarks Post markers outline the cap and signage is displayed at various points around the boundary, see photos.

C. Institutional Controls (ICs)

1. Implementation and enforcement
Site conditions imply ICs not properly implemented □ Yes ☒ No ☐ N/A
Site conditions imply ICs not being fully enforced □ Yes ☒ No ☐ N/A
Type of monitoring (e.g., self-reporting, drive by) _____
Frequency _____
Responsible party/agency
Contact _____ _____ _____ _____
Name Title Date Phone no.
Reporting is up-to-date □ Yes □ No ☒ N/A
Reports are verified by the lead agency □ Yes □ No ☒ N/A
Specific requirements in deed or decision documents have been met ☒ Yes □ No □ N/A
Violations have been reported □ Yes □ No ☒ N/A
Other problems or suggestions: □ Report attached

2. Adequacy ☒ ICs are adequate □ ICs are inadequate □ N/A
Remarks Restrictive covenant is recorded with the property deed.

D. General

1. Vandalism/trespassing □ Location shown on site map ☒ No vandalism evident
Remarks

2. Land use changes on site ☒ N/A

3. Land use changes off site ☒ N/A

VI. GENERAL SITE CONDITIONS ☒ Applicable ☐ N/A

A. Roads

1. Roads damaged □ Location shown on site map ☒ Roads adequate □ N/A
Remarks

B. Other Site Conditions

Remarks

VII. LANDFILL COVERS □ Applicable **☒ N/A**

A. Landfill Surface

1. Settlement (Low spots) □ Location shown on site map □ Settlement not evident
   Areal extent_____ Depth_____
Remarks

2. Cracks □ Location shown on site map □ Cracking not evident
   Lengths_____ Widths_____ Depths_____
Remarks

3. Erosion □ Location shown on site map □ Erosion not evident
   Areal extent_____ Depth_____
Remarks

4. Holes □ Location shown on site map □ Holes not evident
   Areal extent_____ Depth_____
Remarks

5. Vegetative Cover □ Cover properly established □ No signs of stress
   □ Trees/Shrubs (indicate size and locations on a diagram) □ Grass
Remarks

6. Alternative Cover (armored rock, concrete, etc.) □ N/A
Remarks

7. Bulges □ Location shown on site map □ Bulges not evident
   Areal extent_____ Height_____
Remarks

8. Wet Areas/Water Damage □ Wet areas/water damage not evident
   □ Wet areas □ Location shown on site map Areal extent_____
   □ Ponding □ Location shown on site map Areal extent_____
   □ Seeps □ Location shown on site map Areal extent_____
   □ Soft subgrade □ Location shown on site map Areal extent_____
Remarks

9. Slope Instability □ Location shown on site map □ Slides
   Areal extent_____ □ No evidence of slope instability
Remarks

B. Benches □ Applicable □ N/A
(Horizontally constructed mounds of earth placed across a steep landfill side slope to interrupt the slope in order
to slow down the velocity of surface runoff and intercept and convey the runoff to a lined channel.)

1. Flows Bypass Bench □ Location shown on site map □ N/A or okay
Remarks

2. Bench Breached □ Location shown on site map □ N/A or okay
Remarks

3. Bench Overtopped □ Location shown on site map □ N/A or okay
Remarks

C. Letdown Channels □ Applicable □ N/A
(Channel lined with erosion control mats, riprap, grout bags, or gabions that descend down the steep side slope of
the cover and will allow the runoff water collected by the benches to move off of the landfill cover without
creating erosion gullies.)

1. Settlement □ Location shown on site map □ No evidence of settlement

Areal extent_____ Depth_____ Remarks
2. Material Degradation □ Location shown on site map □ No evidence of degradation Areal extent_____ Material type_____ Remarks
3. Erosion □ Location shown on site map □ No evidence of erosion Areal extent_____ Depth_____ Remarks
4. Undercutting □ Location shown on site map □ No evidence of undercutting Areal extent_____ Depth_____ Remarks
5. Obstructions Type_____ □ No obstructions Areal extent_____ □ Location shown on site map Size_____ Remarks
6. Excessive Vegetative Growth Type_____ □ No evidence of excessive growth Areal extent_____ □ Location shown on site map □ Vegetation in channels does not obstruct flow Remarks
D. Cover Penetrations □ Applicable □ N/A
1. Gas Vents □ Active □ Passive □ Properly secured/locked □ Functioning □ Routinely sampled □ Good condition □ Evidence of leakage at penetration □ Needs Maintenance □ N/A Remarks
2. Gas Monitoring Probes □ Properly secured/locked □ Functioning □ Routinely sampled □ Good condition □ Evidence of leakage at penetration □ Needs Maintenance □ N/A Remarks
3. Monitoring Wells (within surface area of landfill) □ Properly secured/locked □ Functioning □ Routinely sampled □ Good condition □ Evidence of leakage at penetration □ Needs Maintenance □ N/A Remarks
4. Leachate Extraction Wells □ Properly secured/locked □ Functioning □ Routinely sampled □ Good condition □ Evidence of leakage at penetration □ Needs Maintenance □ N/A Remarks
5. Settlement Monuments □ Located □ Routinely surveyed □ N/A Remarks
E. Gas Collection and Treatment □ Applicable □ N/A
1. Gas Treatment Facilities □ Flaring □ Thermal destruction □ Good condition □ Collection for reuse □ Needs Maintenance Remarks
2. Gas Collection Wells, Manifolds and Piping □ Needs Maintenance □ Good condition Remarks
3. Gas Monitoring Facilities (e.g., gas monitoring of adjacent homes or buildings)

	□ N/A	□ Needs Maintenance	□ Good condition
Remarks_____			
F. Cover Drainage Layer	□ Applicable		□ N/A
1. Outlet Pipes Inspected	□ Functioning		□ N/A
Remarks			
2. Outlet Rock Inspected	□ Functioning		□ N/A
Remarks			
G. Detention/Sedimentation Ponds		□ Applicable	□ N/A
1. Siltation	Areal extent_____	Depth_____	□ N/A
□ Siltation not evident			
Remarks			
2. Erosion	Areal extent_____	Depth_____	
□ Erosion not evident			
Remarks			
3. Outlet Works	□ Functioning		□ N/A
Remarks			
4. Dam	□ Functioning		□ N/A
Remarks			
H. Retaining Walls	□ Applicable		□ N/A
1. Deformations	□ Location shown on site map		□ Deformation not evident
Horizontal displacement_____			
Rotational displacement_____			
Remarks			
2. Degradation	□ Location shown on site map		□ Degradation not evident
Remarks			
I. Perimeter Ditches/Off-Site Discharge	□ Applicable		□ N/A
1. Siltation	□ Location shown on site map		□ Siltation not evident
Areal extent_____	Depth_____		
Remarks			
2. Vegetative Growth	□ Location shown on site map		□ N/A
Areal extent_____	Type_____		□ Vegetation does not impede flow
Remarks			
3. Erosion	□ Location shown on site map		□ Erosion not evident
Areal extent_____	Depth_____		
Remarks			
4. Discharge Structure	□ Functioning		□ N/A
Remarks			
VIII. VERTICAL BARRIER WALLS		□ Applicable	**☒ N/A**
1. Settlement	□ Location shown on site map		□ Settlement not evident
Areal extent_____	Depth_____		
Remarks			
2. Performance Monitoring	□ Performance not monitored		□ Evidence of breaching
Type of monitoring_____	Head differential_____		Frequency _____
Remarks			
IX. GROUNDWATER/SURFACE WATER REMEDIES		□ Applicable	**☒ N/A**
A. Groundwater Extraction Wells, Pumps, and Pipelines	□ Applicable		□ N/A
1. Pumps, Wellhead Plumbing, and Electrical			

□ Good condition □ All required wells properly operating □ N/A Remarks
2. Extraction System Pipelines, Valves, Valve Boxes, and Other Appurtenances □ Good condition □ Needs Maintenance Remarks
3. Spare Parts and Equipment □ Readily available □ Good condition □ Requires upgrade □ Needs to be provided Remarks
B. Surface Water Collection Structures, Pumps, and Pipelines □ Applicable □ N/A
1. Collection Structures, Pumps, and Electrical □ Good condition □ Needs Maintenance Remarks
2. Surface Water Collection System Pipelines, Valves, Valve Boxes, and Other Appurtenances □ Good condition □ Needs Maintenance Remarks
3. Spare Parts and Equipment □ Readily available □ Good condition □ Requires upgrade □ Needs to be provided Remarks
C. Treatment System □ Applicable □ N/A
1. Treatment Train (Check components that apply) □ Metals removal □ Oil/water separation □ Bioremediation □ Air stripping □ Carbon adsorbers □ Good condition □ Filters_____ □ Needs Maintenance □ Additive (e.g., chelation agent, flocculent)_____ □ Others_____ □ Equipment properly identified □ Sampling ports properly marked and functional □ Sampling/maintenance log displayed and up to date □ Quantity of groundwater treated annually_____ □ Quantity of surface water treated annually_____ Remarks
2. Electrical Enclosures and Panels (properly rated and functional) □ Good condition □ Needs Maintenance □ N/A Remarks
3. Tanks, Vaults, Storage Vessels □ Good condition □ Proper secondary containment □ Needs Maintenance □ N/A Remarks
4. Discharge Structure and Appurtenances □ Good condition □ Needs Maintenance □ N/A Remarks
5. Treatment Building(s) □ Good condition (esp. roof and doorways) □ N/A □ Chemicals and equipment properly stored □ Needs repair Remarks

6. Monitoring Wells (pump and treatment remedy) □ Good condition □ Properly secured/locked □ Functioning □ N/A □ Routinely sampled □ All required wells located □ Needs Maintenance Remarks
D. Monitoring Data
1. Monitoring Data □ Is routinely submitted on time □ Is of acceptable quality
2. Monitoring data suggests: □ Groundwater plume is effectively contained □ Contaminant concentrations are declining
D. Monitored Natural Attenuation
1. Monitoring Wells (natural attenuation remedy) □ Good condition □ Functioning □ Routinely sampled □ N/A □ All required wells located □ Needs Maintenance □ Properly secured/locked Remarks
X. OTHER REMEDIES
If there are remedies applied at the site which are not covered above, attach an inspection sheet describing the physical nature and condition of any facility associated with the remedy. An example would be soil vapor extraction.
XI. OVERALL OBSERVATIONS
A. Implementation of the Remedy
Describe issues and observations relating to whether the remedy is effective and functioning as designed. Begin with a brief statement of what the remedy is to accomplish (i.e., to contain contaminant plume, minimize infiltration and gas emission, etc.). The remedy eliminated the threat of exposure to the contaminants of concern through direct contact with or ingestion of contaminated site materials. Groundwater monitoring results indicate the remedy is functioning as designed.
B. Adequacy of O&M
Describe issues and observations related to the implementation and scope of O&M procedures. In particular, discuss their relationship to the current and long-term protectiveness of the remedy. Four on-site monitoring wells sampled indicate that the remedy is functioning as designed.
C. Early Indicators of Potential Remedy Problems
Describe issues and observations such as unexpected changes in the cost or scope of O&M or a high frequency of unscheduled repairs, that suggest that the protectiveness of the remedy may be compromised in the future. There were no early indicators of potential remedy problems noted during this five-year review.
D. Opportunities for Optimization
Describe possible opportunities for optimization in monitoring tasks or the operation of the remedy. The remedy is functioning as designed. There were no opportunities for optimization noted.

APPENDIX E – INTERVIEWS

INTERVIEW RECORD

Site Details		
Name: Cal West Metals	**EPA ID:** NMD097960272	**Subject:** Sixth Five-Year Review
Interviewer		
Name: Rebecca Green	**Title:** Water Resources Manager I	**Affiliation:** New Mexico Environment Dept.
Individual Contacted		
Name: Shane Durkin	**Title:** Owner of Site	**Affiliation:** Durkin Diesel
Phone Number: (b) (6) [redacted]	**Email Address:**	
Interview Details		
Interview Format: In Person	**Interview Location:** Durkin Diesel	**Interview Category:** Resident
Interview Date: October 8, 2024	**Interview Time:** Time 13:00	

Questionnaire:

1. What is your overall impression of the project?

"I am very happy that they [government] cleaned this place up to get some use out of it."

2. What effects have site operations had on the surrounding community?

"Some people might think this place still has contamination, however, most are glad it is cleaned up."

3. Are you aware of any community concerns regarding the site or its operation and administration? If so, please give details.

"No."

4. Are you aware of any events, incidents, or activities at the site such as vandalism, trespassing, or emergency responses from local authorities? If so, please give details.

"No, some thefts at business but not related to the Site."

5. Do you have any comments, suggestions, or recommendations regarding the site's management or operation?

"No. I think it is cool that you are still testing the well water."

6. Do you consent to have your name included along with your responses to this questionnaire in the five-year review report?

"Yes, that's fine."

INTERVIEW RECORD

Site Details		
Name: Cal West Metals	**EPA ID:** NMD097960272	**Subject:** Sixth Five-Year Review
Interviewer		
Name: Rebecca Green	**Title:** Water Resources Manager I	**Affiliation:** New Mexico Environment Dept.
Individual Contacted		
Name: Anonymous	**Title:** Waitress	**Affiliation:** Crane Café, Lemitar
Phone Number: N/A	**Email Address:**	
Interview Details		
Interview Format: In Person	**Interview Location:** Inside the Café	**Interview Category:** Resident
Interview Date: October 8, 2024	**Interview Time:** Time 13:30	

Questionnaire:

1. What is your overall impression of the project?

"I haven't heard of Cal West, just Eagle Pitcher."

2. What effects have site operations had on the surrounding community?

No comment.

3. Are you aware of any community concerns regarding the site or its operation and administration? If so, please give details.

No comment.

4. Are you aware of any events, incidents, or activities at the site such as vandalism, trespassing, or emergency responses from local authorities? If so, please give details.

No comment.

5. Do you have any comments, suggestions, or recommendations regarding the site's management or operation?

No comment.

6. Do you consent to have your name included along with your responses to this questionnaire in the five-year review report?

No

INTERVIEW RECORD

Site Details		
Name: Cal West Metals	**EPA ID:** NMD097960272	**Subject:** Sixth Five-Year Review
Interviewer		
Name: Rebecca Green	**Title:** Water Resources Manager I	**Affiliation:** New Mexico Environment Dept.
Individual Contacted		
Name: Smiley	**Title:** School Janitor/Custodian	**Affiliation:** Midway Elementary School
Phone Number: (b) (6)	**Email Address:**	
Interview Details		
Interview Format: In Person	**Interview Location:** Lobby of school	**Interview Category:** Resident
Interview Date: October 8, 2024	**Interview Time:** Time 14:30	

Questionnaire:

1. What is your overall impression of the project?

"Good, they [government] took care of it."

2. What effects have site operations had on the surrounding community?

"Not too much."

3. Are you aware of any community concerns regarding the site or its operation and administration? If so, please give details.

"No"

4. Are you aware of any events, incidents, or activities at the site such as vandalism, trespassing, or emergency responses from local authorities? If so, please give details.

"No"

5. Do you have any comments, suggestions, or recommendations regarding the site's management or operation?

"No"

6. Do you consent to have your name included along with your responses to this questionnaire in the five-year review report?

"Yes"

INTERVIEW RECORD

Site Details		
Name: Cal West Metals	**EPA ID:** NMD097960272	**Subject:** Sixth Five-Year Review
Interviewer		
Name: Rebecca Green	**Title:** Water Resources Manager I	**Affiliation:** New Mexico Environment Dept.
Individual Contacted		
Name: Anonymous	**Title:** Employee at farm	**Affiliation:** (b) (6)
Phone Number: N/A	**Email Address:**	
Interview Details		
Interview Format: In Person	**Interview Location:** (b) (6)	**Interview Category:** Resident
Interview Date: October 8, 2024	**Interview Time:** Time 15:30	

Questionnaire:

1. What is your overall impression of the project?

"I have never heard of Cal West, but my brother might have. Let me give you his phone number."

2. What effects have site operations had on the surrounding community?

No comment.

3. Are you aware of any community concerns regarding the site or its operation and administration? If so, please give details.

No comment.

4. Are you aware of any events, incidents, or activities at the site such as vandalism, trespassing, or emergency responses from local authorities? If so, please give details.

No comment.

5. Do you have any comments, suggestions, or recommendations regarding the site's management or operation?

No comment.

6. Do you consent to have your name included along with your responses to this questionnaire in the five-year review report?

No.

INTERVIEW RECORD

Site Details		
Name: Cal West Metals	**EPA ID:** NMD097960272	**Subject:** Sixth Five-Year Review
Interviewer		
Name: Rebecca Green	**Title:** Water Resources Manager I	**Affiliation:** New Mexico Environment Dept.
Individual Contacted		
Name: Kenneth Bustamante	**Title:** Farmer	(b) (6) [redacted]
Phone Number: (b) (6) [redacted]	**Email Address:**	
Interview Details		
Interview Format: Phone	**Interview Location:** Telephone	**Interview Category:** Resident
Interview Date: October 9, 2024	**Interview Time:** Time 10:30	Received Mr. Bustamante's phone number from an employee at the farm.

Questionnaire:

1. What is your overall impression of the project?

"I have never heard of Cal West."

2. What effects have site operations had on the surrounding community?

No comment.

3. Are you aware of any community concerns regarding the site or its operation and administration? If so, please give details.

No comment.

4. Are you aware of any events, incidents, or activities at the site such as vandalism, trespassing, or emergency responses from local authorities? If so, please give details.

No comment.

5. Do you have any comments, suggestions, or recommendations regarding the site's management or operation?

No comment.

6. Do you consent to have your name included along with your responses to this questionnaire in the five-year review report?

Yes.

APPENDIX F – FIGURES AND TABLES

Figure 1: Site Location and Regional Map

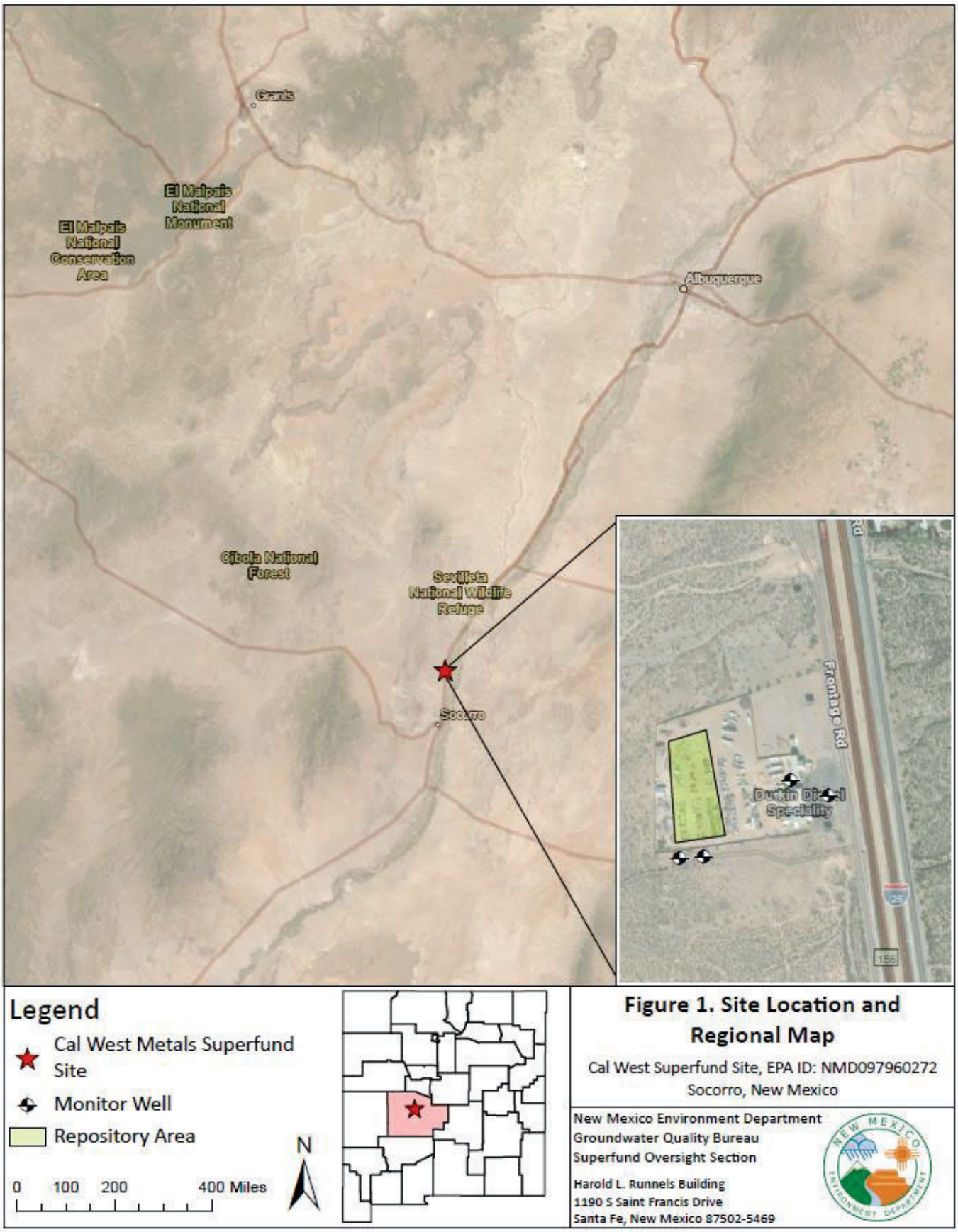

Figure 2: Potentiometric Surface Map (2024) and Historical Trends (2000-2024)

Figure 2. Potentiometric Surface Map and Historic Trends

Cal West Superfund Site
EPA ID: NMD097960272
Socorro, New Mexico

New Mexico Environment Department
Groundwater Quality Bureau
Superfund Oversight Section

Harold L. Runnels Building
1190 S Saint Francis Drive
Santa Fe, New Mexico 87502-5469

Figure 3: Historical Groundwater Elevation Trends CWMW-7

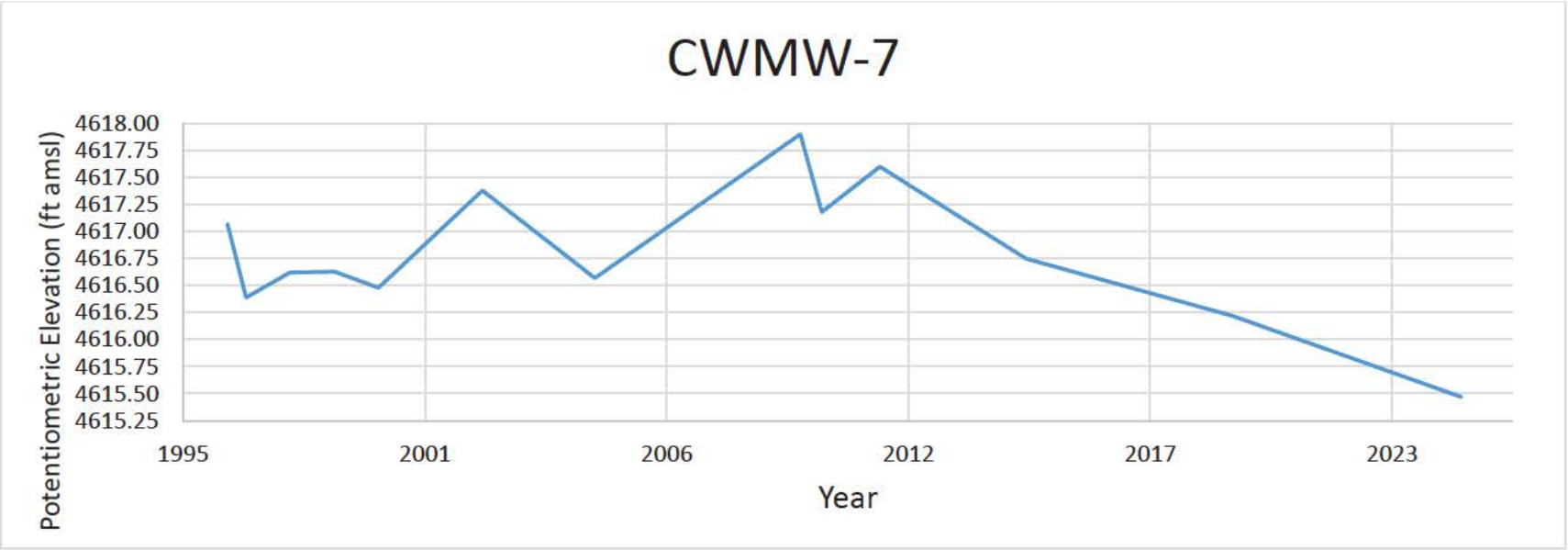

Figure 4: Historical Groundwater Elevation Trends CWMW-8

Figure 5: Historical Groundwater Elevation Trends CWMW-9

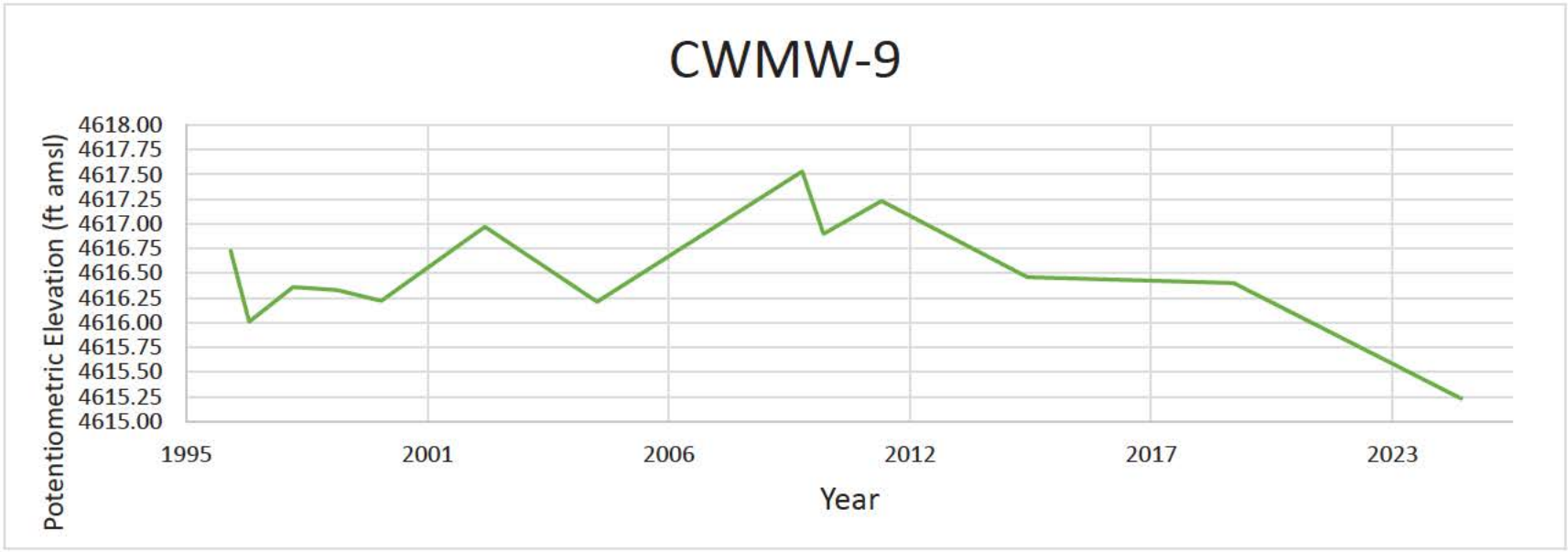

Figure 6: Historical Groundwater Elevation Trends CWMW-10

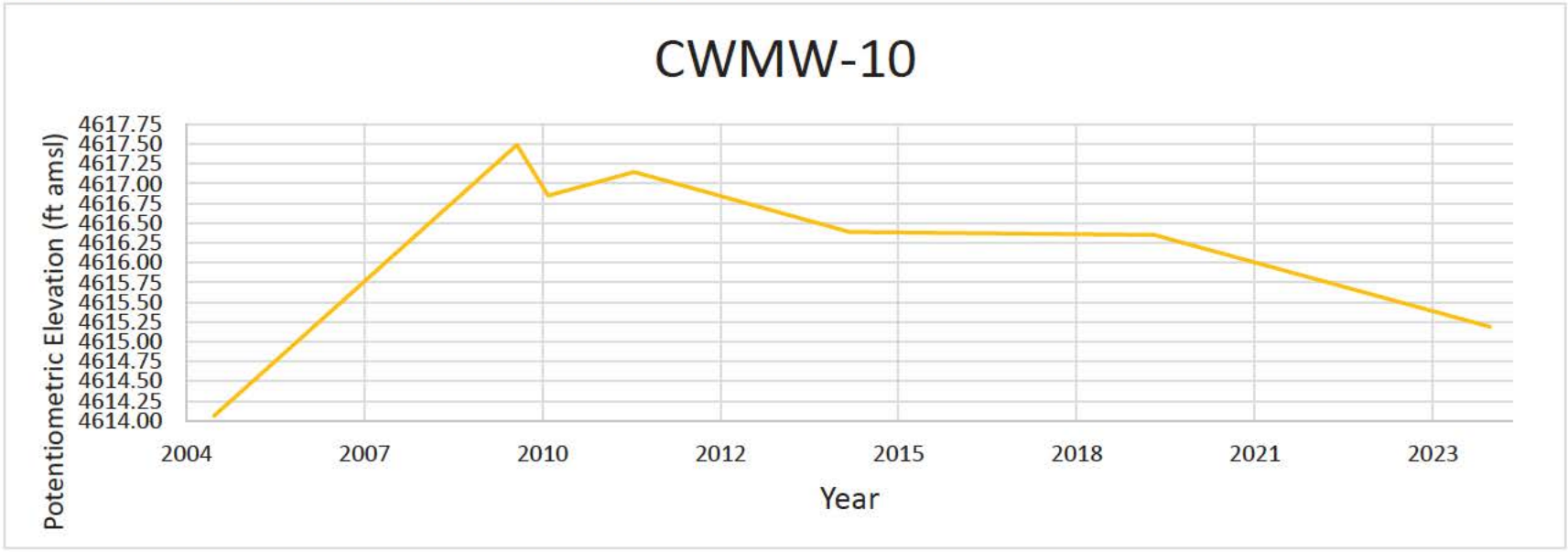

Figure 7: Polvadera Mutual Domestic Water Consumers Association Municipal Wells

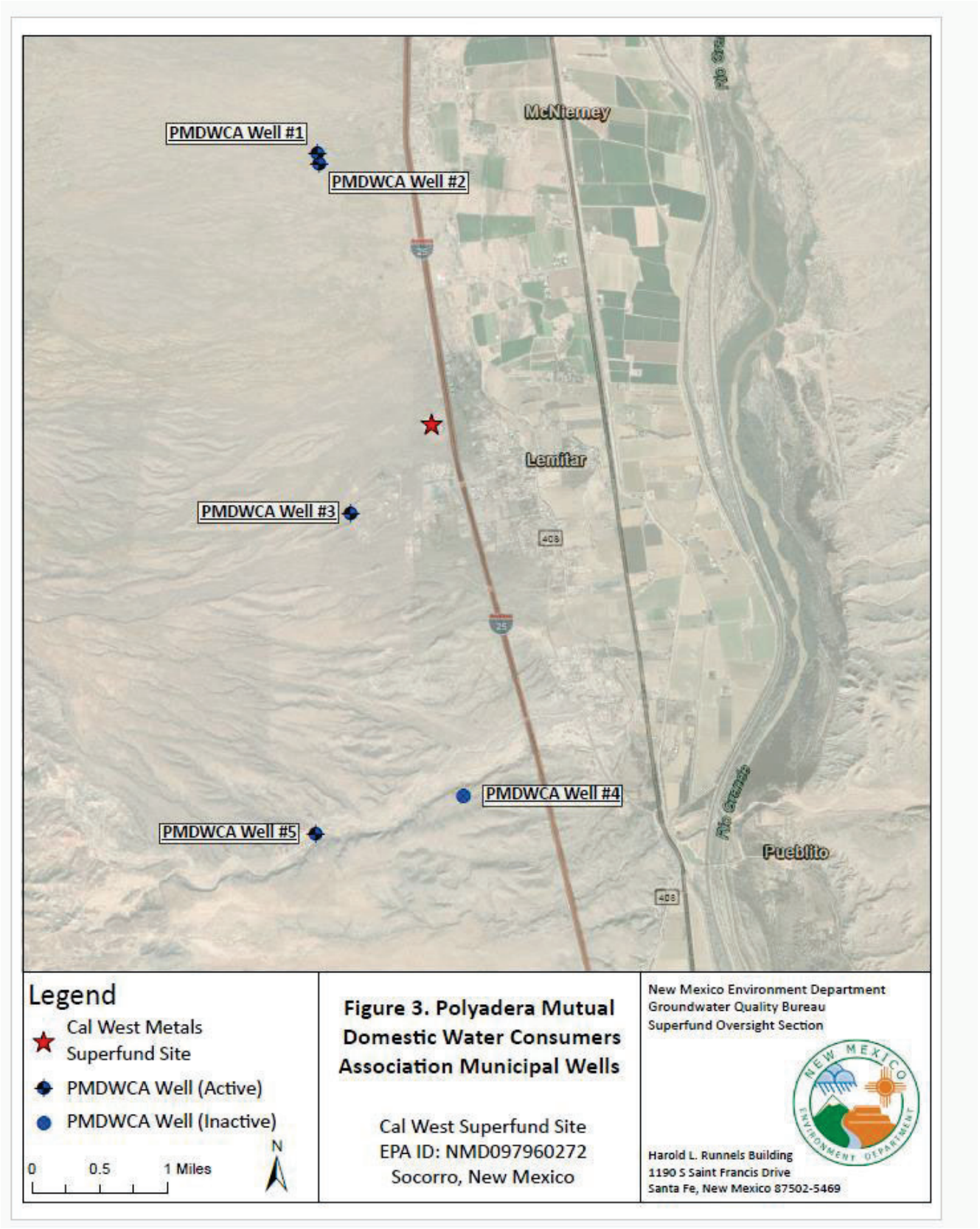

Table 1: Well Completion Details and Water Levels (Historical Groundwater Elevation Data)								
Cal West Metals Superfund Site Sixth Five-Year Review								
Well ID	Borehole Depth (ft bgs)	Well Depth (ft bgs)	Screened Interval (ft bgs)	Casing Diameter (inches)	Top of Casing Elevation (ft amsl)	Measured Date	Depth to Water (ft bgs)	Water Table Elevation (ft amsl)
CWMW-7	108	99	79-99	2	4703.78	10/29/96	86.71	4617.07
						4/1/97	87.39	4616.39
						4/1/98	87.16	4616.62
						4/1/99	87.15	4616.63
						4/1/00	87.3	4616.48
						8/7/02	86.4	4617.38
						2/22/05	87.21	4616.57
						10/20/09	85.88	4617.90
						4/15/10	86.60	4617.18
						8/9/11	86.18	4617.60
						12/2/14	87.03	4616.75
						8/8/19	87.56	4616.22
						10/08/24	88.31	4615.47
CWMW-8	103	97	77-92	2	4699.13	10/29/96	82.06	4617.07
						4/1/97	82.8	4616.33
						4/1/98	82.52	4616.61
						4/1/99	82.51	4616.62
						8/7/02	81.76	4617.37
						2/22/05	82.61	4616.52
						10/20/09	81.23	4617.90
						4/15/10	81.96	4617.17
						8/9/11	81.86	4617.27
						12/2/14	82.78	4616.35
						8/8/19	82.80	4616.33
						10/08/24	84.01	4615.12
CWMW-9	121	108	88-103	2	4716.21	10/29/96	99.48	4616.73
						4/1/97	100.02	4616.01
						4/1/98	99.85	4616.36
						4/1/99	99.88	4616.33
						4/1/00	99.99	4616.22
						8/7/02	99.24	4616.97
						2/22/05	100	4616.21
						10/20/09	98.68	4617.53
						4/15/10	99.31	4616.90
						8/9/11	98.98	4617.23
						12/2/14	99.75	4616.46
						8/8/19	99.81	4616.40
						10/08/24	100.98	4615.23
CWMW-10	120	120	96-116	2	4717.96	2/22/05	103.9	4614.06
						10/20/09	100.47	4617.49
						4/15/10	101.11	4616.85
						8/9/11	100.81	4617.15

						12/2/2014	101.57	4616.39
						8/8/19	101.61	4616.35
						10/08/24	102.77	4615.18

Notes: ft amsl = feet above mean sea level ft bgs = feet below ground surface

Table 2: October 8, 2024 - Groundwater Analytical Results - Total and Dissolved Metals									
Cal West Metals Superfund Site Sixth Five-Year Review									
Analyte	**WQCC Standard**	**MCL**	**EPA Method**	**CWMW-7**	**CWMW-8**	**CWMW-9**	**CWMW-10**	**CWMW-97***	**Reporting Limit**
Dissolved Metals:									
Aluminum	5.0	0.05-0.2(s)	200.7	<0.020	<0.020	<0.020	<0.020	<0.020	0.020
Antimony	0.006	0.006	200.8	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010
Arsenic	0.01	0.01	200.8	0.0065	0.0073	0.0064	0.0064	0.0068	0.00050
Barium	2.0	2.0	200.7	0.021	0.04	0.044	0.046	0.021	0.0030
Beryllium	0.004	0.004	200.7	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020
Boron	0.75		200.7	0.28	0.34	0.19	0.17	0.28	0.040
Cadmium	0.005	0.005	200.7	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020
Calcium			200.7	180	200	130	130	190	10
Chromium	0.05	0.1	200.7	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0060
Cobalt	0.05		200.7	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0060
Copper	1.0	1.0	200.8	<0.00050	<0.00050	0.0012	0.00053	<0.00050	0.00050
Iron	1.0	0.3(s)	200.7	<0.020	<0.020	<0.020	<0.020	<0.020	0.020
Lead	0.015	0.015	200.8	<0.00050	<0.00050	0.00079	<0.00050	<0.00050	0.00050
Magnesium			200.7	29	30	27	26	29	1.0
Manganese	0.2	0.05(s)	200.7	0.0023	<0.0020	0.0043	<0.0020	0.0022	0.0020
Mercury	0.002	0.002	245.1	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00020
Molybdenum	1.0		200.7	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	0.0080
Nickel	0.2		200.7	<0.010	<0.010	<0.010	<0.010	<0.010	0.010
Potassium			200.7	3.6	6	6	5.8	3.6	1.0
Selenium	0.05	0.05	200.8	0.015	0.025	0.0092	0.011	0.015	0.0010
Silver	0.05	0.10(s)	200.7	0.0052	0.005	<0.0050	<0.0050	<0.0050	0.0050
Sodium			200.7	120	160	99	92	130	10
Thallium	0.002	0.002	200.8	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	0.00025
Uranium	0.03	0.03	200.8	0.021	0.014	0.015	0.013	0.021	0.00050
Vanadium			200.7	<0.050	<0.050	<0.050	<0.050	<0.050	0.050
Zinc	10.0	5.0(s)	200.7	<0.010	<0.010	<0.010	<0.010	<0.010	0.010
Analyte	**WQCC Standard**	**MCL**	**EPA Method**	**CWMW-7**	**CWMW-8**	**CWMW-9**	**CWMW-10**	**CWMW-97***	**Reporting Limit**
Total Metals:									
Aluminum	5.0	0.05-0.2(s)	200.7	0.26	0.1	0.21	0.052	0.64	0.10
Antimony	0.006	0.006	200.8	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010
Arsenic	0.01	0.01	200.8	0.0071	0.0076	0.0071	0.0067	0.0075	0.00050
Barium	2.0	2.0	200.7	0.059	0.051	0.071	0.062	0.014	0.0030
Beryllium	0.004	0.004	200.7	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020
Boron	0.75		200.7	0.27	0.33	0.18	0.17	0.27	0.040

Cadmium	0.005	0.005	200.7	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020
Calcium			200.7	180	210	130	130	190	5.0
Chromium	0.05	0.1	200.7	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0060
Cobalt	0.05		200.7	0.0088	0.01	<0.0060	<0.0060	0.007	0.0060
Copper	1.0	1.0	200.8	0.0012	0.00082	0.0023	0.0006	0.0025	0.00050
Iron	1.0	0.3(s)	200.7	0.29	0.11	0.24	<0.050	0.75	0.050
Lead	0.015	0.015	200.8	0.0012	0.0017	0.0029	<0.00050	0.0036	0.00050
Magnesium			200.7	26	28	25	24	27	1.0
Manganese	0.2	0.05(s)	200.7	0.018	0.0089	0.01	<0.0020	0.045	0.0020
Mercury	0.002	0.002	245.1	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00020
Molybdenum	1.0		200.7	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	0.0080
Nickel	0.2		200.7	<0.010	<0.010	<0.010	<0.010	<0.010	0.010
Potassium			200.7	3.3	5.9	5.6	5.6	3.5	1.0
Selenium	0.05	0.05	200.8	0.017	0.026	0.0098	0.013	0.015	0.0010
Silver	0.05	0.10(s)	200.7	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050
Sodium			200.7	120	160	88	85	130	5.0
Thallium	0.002	0.002	200.8	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	0.00025
Uranium	0.03	0.03	200.8	0.022	0.015	0.014	0.011	0.022	0.00050
Vanadium			200.7	<0.050	<0.050	<0.050	<0.050	<0.050	0.050
Zinc	10.0	5.0(s)	200.7	0.011	<0.010	0.011	<0.010	0.014	0.010
KEY *CWMW-97-Duplicate of CWMW-7 for Quality Assurance and Control s=secondary standard									

Table 3: Historical Groundwater Analytical Data Per Well
Cal West Metals Superfund Site Sixth Five-Year Review
CWMW-7 (results in milligrams per liter)

Analyte	WQCC Standard	EPA MCL	Apr-96	Apr-97	Apr-97(D)	Apr-98	Apr-99	Apr-00	2-Aug	Aug-02(D)	5-Feb	11-Aug	14-Dec	19-Aug	24-Oct
Dissolved Metals:															
Aluminum	*5*	*0.05-0.2(s)*	0.427 N,A	<0.01	<0.01	<0.1 C,H	<0.01 C,H	<0.01	<0.01	<0.05	0.2 U	<0.020	<0.050	<0.010	<0.020
Antimony		*0.006*	<0.0124 U	<0.001	<0.001	<0.001	0.003 H	<0.001	<0.001	<0.005	0.06 U	0.00020 J	<0.0010	<0.001	<0.0010
Arsenic	*0.01*	*0.01*	0.0103 N,A	0.006 C	0.006 C	<0.005 C,H	<0.001 H	0.005 C,H	0.008	0.008	0.01 U	0.0068	0.0065	0.008	0.0065
Barium	*2*	*2*	0.0479 B	<0.1	<0.1	<0.1 C,H	<0.1 C,H	<0.1	<0.1	<0.5	0.0274 L,J	0.023	0.02	0.02	0.021
Beryllium	*0.004*	*0.004*	<0.0006 U	na	na	<0.05 C,H	na	na	<0.001	<0.005	0.005 U	0.00046 J	<0.0010	<0.001	<0.0020
Boron	*0.75(i)*		na	na	na	0.4 C,H	na	na	na	na	na	na	0.2	0.26	0.28
Cadmium	*0.005*	*0.005*	<0.0009 U	<0.001	<0.001	<0.1 C,H	<0.001 C,H	<0.001	<0.001	<0.005	0.005 U	<0.0020	<0.0010	<0.001	<0.0020
Calcium			231 E	na	na	270 C	na	na	na	na	238	220	200	190	180
Chromium	*0.05*	*0.1*	<0.0049 U	na	na	<0.1 C,H	na	na	0.004	<0.005	0.01 U	<0.0060	0.0015	<0.001	<0.0060
Cobalt	*0.05*		<0.0018 U	na	na	<0.05 C,H	na	na	<0.001	<0.005	0.05 U	0.0018 J	<0.0010	<0.001	<0.0060
Copper	*1*	*1*	0.0074 B	<0.01	<0.01	<0.1 C,H	<0.01 C,H	<0.01	<0.01	<0.05	0.025 U	<0.0060	<0.020	<0.010	<0.00050
Iron	*1*	*0.3(s)*	0.0377 B	<0.05	<0.05	<0.1 C	<0.1 C	<0.05	na	na	0.1 U	<0.020	<0.10	<0.05	<0.020
Lead	*0.015*	*0.015*	0.0025 B	<0.001	<0.001	<0.001	<0.001 C,H	<0.001	<0.001	<0.005	0.01 U,R	0.000041 J	<0.0050	<0.001	<0.00050
Magnesium			33.9 N,A	na	na	41	na	na	na	na	395	37	25	34	29
Manganese	*0.2*	*0.05(s)*	0.021 N,A	<0.001	<0.001	<0.05 C,H	<0.001 C,H	0.001	<0.001	<0.005	0.015 U	0.00014 J	<0.0020	<0.001	0.0023
Mercury	*0.002*	*0.002*	<0.0001 U	<0.0002	<0.0002	<0.0002 C,H	na	<0.0002	na	na	0.000058 L,J	na	<0.00000	<0.0002	<0.00020
Molybdenum	*1.0(i)*		na	na	na	0.002 C,H	na	na	0.001	<0.005	na	na	0.001	0.001	<0.0080
Nickel	*0.2(i)*		<0.0037 U	<0.01	<0.01	<0.1 C,H	<0.01 C,H	<0.01	<0.01	<0.05	0.04 U	<0.010	0.0014	<0.010	<0.010
Potassium			6.17 E	na	na	na	na	na	na	na	5.97 J^	3.8	5.2	3.7	3.6
Selenium	*0.05*	*0.05*	0.0302 N,A	0.018	0.019	0.02 C	0.014 C,H	0.019 C,H	na	na	0.035 U	0.016	0.015	0.02	0.015
Silicon			na	na	na	15 C,H	na	na	na	na	na	na	na	na	na
Silver	*0.05*	*0.10(s)*	<0.0034 U	<0.001	<0.001	<0.001	<0.001 C,H	<0.001	<0.001	<0.005	0.01 U	<0.0050	<0.0010	<0.001	0.0052
Sodium			156 E	na	na	na	na	na	na	na	174	150	170	140	120
Strontium			na	na	na	1.5 H	na	na	na	na	na	na	na	na	na
Thallium		*0.002*	<0.0033 U	na	na	na	na	na	<0.001	<0.005	0.025 U	<0.0010	<0.0010	<0.001	<0.00025
Tin			na	na	na	<0.1 H	na	na	na	na	na	na	na	na	na
Uranium	*0.03*	*0.03*							0.013	0.013	na	na	na	0.024	0.021
Vanadium			0.0069 B	na	na	<0.1 C,H	na	na	0.004	<0.005	0.003 L,J	0.0071 J	<0.020	0.004	<0.050
Zinc	*10*	*5(s)*	0.0232 N,A	0.02	<0.01	<0.1 C,H	0.01 C,H	0.01	0.02	<0.05	0.008 L,J	0.015	<0.020	<0.010	<0.010
Analyte	**WQCC Standard**	**EPA MCL**	**Apr-96**	**Apr-97**	**Apr-97(D)**	**Apr-98**	**Apr-99**	**Apr-00**	**2-Aug**	**Aug-02(D)**	**5-Feb**	**11-Aug**	**14-Dec**	**19-Aug**	**24-Oct**
Total Metals:															
Aluminum	*5*	*0.05-0.2(s)*	75 N,A	9.6 H	12 H	22	28 C	4	0.36	0.52 H	0.2 U	0.015 J	<0.050	<0.01	<0.020
Antimony		*0.006*	<0.0177 U,N	<0.001	<0.001	<0.001	<0.001	<0.001 C	<0.001	<0.005 C,H	0.06 U	<0.0025	<0.0010	<0.001	<0.0010

Arsenic	*0.01*	*0.01*	0.0625 N	<0.001	0.012 C,H	0.022	0.016 C	<0.002	0.006	0.006 C,H	0.01 U	0.006	0.0065	0.007	0.0071
Barium	*2*	*2*	11.5 N,A	2	0.8	0.3	2.8 G	0.9	<0.1	<0.5 CH	0.0315 L,J	0.026	0.023	0.021	0.059
Beryllium	*0.004*	*0.004*	0.0036 B	na	na	<0.05	na	na	<0.001	<0.005 CH	0.005 U	0.00018 J	<0.0010	<0.001	<0.0020
Boron	*0.75(i)*		na	na	na	0.5	na	na	na	na	na	na	0.22	0.26	0.27
Cadmium	*0.005*	*0.005*	0.0024 B	<0.001	<0.001	<0.1	<0.001	<0.002	<0.001	<0.005 C,H	0.005 U	<0.0020	<0.0010	<0.001	<0.0020
Calcium			309 N, A	na	na	290	na	na	na	na	233	220	180	190	180
Chromium	*0.05*	*0.1*	0.159 N,A	na	na	<0.1	na	na	<0.005	<0.005 C,H	0.01 U	0.00059 J	0.0078	0.002	<0.0060
Cobalt	*0.05*		0.0572 N,A	na	na	<0.05	na	na	<0.001	<0.005 C,H	0.05 U	0.0014 J	<0.0010	<0.001	0.0088
Copper	*1*	*1*	0.223 N,A	0.02	0.03	<0.1	0.06	0.01 C	<0.01	<0.05 C,H	0.025 U	<0.0060	<0.020	<0.01	0.0012
Iron	*1*	*0.3(s)*	99.7 N,A	12 C,H	17 C	31 C	37	5.4	na	na	0.1 U	0.027	<0.10	<0.05	0.29
Lead	*0.015*	*0.015*	0.233 N,E	0.041	0.041	0.009	0.092	0.014 C	0.002	<0.005 C,H	0.01 U,R	<0.0025	<0.0050	<0.001	0.0012
Magnesium			52.4 N,A	na	na	46	na	na	na	na	38.4	37	27	33	26
Manganese	*0.2*	*0.05(s)*	2.19 N,A	0.22	0.34 C,H	0.99	0.71	0.11	0.012	0.02 C,H	0.00099 L, J^	0.001	0.0027	<0.001	0.018
Mercury	*0.002*	*0.002*	0.00031 N,A	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	na	na	0.0002 U	0.000037 J	<0.00020	<0.0002	<0.00020
Molybdenum	*1.0(i)*		na	na	na	<0.1	na	na	0.001	<0.005 C,H	na	na	0.0012	0.001	<0.0080
Nickel	*0.2(i)*		0.0994 N,A	0.02	0.019	<0.1	0.03	0.01 C	<0.01	<0.05 C,H	0.04 U	<0.010	0.0044	<0.01	<0.010
Potassium			16.5 N,A	na	na		na	na	na	na	6.18 J^	3.8	5.2	3.7	3.3
Selenium	*0.05*	*0.05*	0.0257 N	0.02 D,F,H	0.02 D,H,F	0.018 D,F	0.02 D,F	0.03 D,F	na	na	0.035 U	0.013	0.015	0.015	0.017
Silicon			na	na	na	52	na	na	na	na	na	na	na	na	na
Silver	*0.05*	*0.10(s)*	<0.0033 U	<0.001	<0.001	0.1	<0.001	<0.001 C	<0.001	<0.005 C,H	0.01 U	<0.0050	<0.0010	<0.001	<0.0050
Sodium			167 N,A	na	na		na	na	na	na	170	150	170	140	120
Strontium			na	na	na	1.4	na	na	na	na	na	na	na	na	na
Thallium		*0.002*	<0.0033 U	na	na		na	na	<0.001	<0.005 C,H	0.025 U	<0.0025	<0.0010	<0.001	<0.00025
Tin			na	na	na	<0.1	na	na	na	na	na	na	na	na	na
Uranium	*0.03*	*0.03*							0.013	0.013 C,H	na	na	na	0.024	0.022
Vanadium			0.152 N,A	na	na	<0.1	na	na	<0.005	<0.005 C,H	0.0031 L,J	0.0049 J	<0.020	0.004	<0.050
Zinc	*10*	*5(s)*	1.67 N,A	na	0.23	0.8	0.5	0.11 C	0.02	<0.05 C,H	0.0106 L,J	0.0045 J	<0.020	<0.01	0.011

Table 3: Historical Groundwater Analytical Data Per Well
Cal West Metals Superfund Site Sixth Five-Year Review
CWMW-8 (results in milligrams per liter)

Analyte	WQCC Standard	EPA MCL	Apr-96	Apr-97	Apr-98	Apr-99	Apr-00	2-Aug	5-Feb	11-Aug	14-Dec	19-Aug	24-Oct
Dissolved Metals:													
Aluminum	*5*	*0.05-0.2(s)*	0.0232 B	<0.01	0.2 C,H	<0.01 C,H	ns	<0.01	0.2 U	< 0.020	<0.050	<0.010	<0.020
Antimony		*0.006*	<0.0124 U	<0.001	<0.001	<0.001 C,H	ns	<0.001	0.06 U	< 0.0010	<0.0010	<0.001	<0.0010
Arsenic	*0.01*	*0.01*	0.0102 N,A	0.006 C	<0.01 C	<0.005 C	ns	0.009	0.01 U	0.0073	0.0069	0.008	0.0073
Barium	*2*	*2*	0.0605 B	<0.1	<0.1 C,H	<0.1 C,H	ns	<0.1	0.0544 L,J	0.041	0.032	0.032	0.04
Beryllium	*0.004*	*0.004*	<0.0006 U	na	<0.05 C,H	na	ns	<0.001	0.005 U	< 0.0020	<0.0010	<0.001	<0.0020
Boron	*0.75(i)*		na	na	0.3 C,H	na	ns	na	na	na	0.25	0.29	0.34
Cadmium	*0.005*	*0.005*	<0.0009 U	<0.001	<0.1 C,H	<0.001 C,H	ns	<0.001	0.005 U	< 0.0020	<0.0010	<0.001	<0.0020
Calcium			218 E	na	260 C	na	ns	na	285	240	180	180	200
Chromium	*0.05*	*0.1*	<0.0049 U	na	<0.1 D,F,H	na	ns	0.005	0.01 U	< 0.0060	<0.0010	<0.001	<0.0060
Cobalt	*0.05*		0.0018 B	na	<0.05 C,H	na	ns	<0.001	0.05 U	< 0.0060	<0.0010	<0.001	<0.0060
Copper	*1*	*1*	<0.0047 U	<0.01	<0.1 C,H	<0.01 C,H	ns	<0.01	0.025 U	< 0.0060	na	<0.010	<0.00050
Iron	*1*	*0.3(s)*	0.0162 B	<0.05	<0.1 H	<0.05	ns	na	0.1 U	< 0.020	<0.10	<0.05	<0.020
Lead	*0.015*	*0.015*	0.0011 B	<0.001	<0.001	<0.001 C,H	ns	<0.001	0.01 U,R	< 0.0010	<0.0050	<0.001	<0.00050
Magnesium			30.8 N,A	na	39 C,H	na	ns	na	43.7	35	22	28	30
Manganese	*0.2*	*0.05(s)*	0.0032 B	<0.001	<0.05 C,H	<0.001 C,H	ns	0.005	0.015 U	< 0.0020	<0.0020	<0.001	<0.0020
Mercury	*0.002*	*0.002*	<0.0001 U	<0.0002	<0.0002	na	ns	na	0.0002 U	na	<0.00020	<0.0002	<0.00020
Molybdenum	*1.0(i)*		na	na	<1.0 C	na	ns	0.001	na	na	0.0015	0.002	<0.0080
Nickel	*0.2(i)*		0.0046 B	<0.01	<0.1 C,H	<0.01 C,H	ns	<0.01	0.04 U	< 0.010	<0.0010	<0.010	<0.010
Potassium			6.55 E	na	na	na	ns	na	8.94 J^	6	6.9	5.3	6
Selenium	*0.05*	*0.05*	0.0306 N,A	0.023	0.03 C	0.018 C	ns	na	0.0475 U,C	0.035	0.027	0.03	0.025
Silicon			na	na	14 D,F,H	na	ns	na	na	na	na	na	na
Silver	*0.05*	*0.10(s)*	<0.0034 U	<0.001	0.1 C,H	<0.001 C,H	ns	<0.001	0.01 U	< 0.0050	<0.0010	<0.001	0.005
Sodium			134 E	na	na	na	ns	na	158	150	160	150	160
Strontium			na	na	2.1 H	na	ns	na	na	na	na	na	na
Thallium		*0.002*	<0.0033 U	na	na	na	ns	<0.001	0.025 U	< 0.0010	<0.0010	<0.001	<0.00025
Tin			na	na	<0.1 H	na	ns	na	na	na	na	na	na
Uranium	*0.03*	*0.03*						0.018	na	na	na	0.016	0.014
Vanadium			0.0079 B	na	<0.1 C,H	na	ns	0.003	0.0025 L,J	< 0.050	<0.020	0.003	<0.050
Zinc	*10*	*5(s)*	0.0082 B	<0.01	<0.1 C,H	<0.01 C,H	ns	0.01	0.0051 L,J	< 0.010	<0.020	<0.010	<0.010
Analyte	**WQCC Standard**	**EPA MCL**	**Apr-96**	**Apr-97**	**Apr-98**	**Apr-99**	**Apr-00**	**2-Aug**	**5-Feb**	**11-Aug**	**14-Dec**	**19-Aug**	**24-Oct**
Total Metals:													
Aluminum	*5*	*0.05-0.2(s)*	15.7 N,A	2.3	1	3.8 H	ns	3.3	0.2 U	0.063	<0.050	0.02	0.1
Antimony		*0.006*	<0.0177 U,N	<0.001	<0.001	<0.001 I	ns	<0.001	0.06 U	<0.0025	<0.0010	<0.001	<0.0010
Arsenic	*0.01*	*0.01*	0.0424 N	0.011 C	<0.01 C	0.002	ns	0.015	0.01 U	0.0065	0.0074	0.007	0.0076

Barium	*2*	*2*	2.3 N,A	0.5	0.2	0.6 H	ns	0.9	0.0548 L,J	0.045	0.037	0.036	0.051
Beryllium	*0.004*	*0.004*	<0.0005 U	na	<0.05	na	ns	<0.001	0.005 U	0.00022 J	<0.0010	<0.001	<0.0020
Boron	*0.75(i)*			na	0.3	na	ns	na	na	na	0.26	0.28	0.33
Cadmium	*0.005*	*0.005*	<0.0015 U	<0.001	<0.1	<0.001 H	ns	<0.001	0.005 U	<0.0020	<0.0010	<0.001	<0.0020
Calcium			24.5 N,A	na	260	na	ns	na	282	240	190	180	210
Chromium	*0.05*	*0.1*	0.032 N,A	na	<0.1	na	ns	0.008	0.01 U	0.0019 J	0.0012	0.001	<0.0060
Cobalt	*0.05*		0.0118 B	na	<0.05	na	ns	0.003	0.05 U	0.0013 J	<0.0010	<0.001	0.01
Copper	*1*	*1*	0.0214 B	<0.01	<0.1	0.01 H	ns	0.01	0.025 U	<0.0060	<0.020	<0.01	0.00082
Iron	*1*	*0.3(s)*	19.7 N,A	3.2	1.6	4.9 H	ns	na	0.1 U	0.073	<0.10	<0.05	0.11
Lead	*0.015*	*0.015*	0.0497 N,E	0.009	0.01	0.008	ns	0.007	0.01 U,R	0.00065 J	<0.0050	<0.001	0.0017
Magnesium			35.3 N,A	na	42	na	ns	na	43.2	34	23	28	28
Manganese	*0.2*	*0.05(s)*	0.657 N,A	0.15	0.07	0.18 H	ns	0.16	0.00032 L,J^	0.0037	0.0032	0.001	0.0089
Mercury	*0.002*	*0.002*	0.00015 B	<0.0002	<0.0002	<0.0002	ns	na	0.0002 U	0.000040 J	<0.00020	<0.0002	<0.00020
Molybdenum	*1.0(i)*			na	0.002	na	ns	0.003	na	na	0.0014	0.002	<0.0080
Nickel	*0.2(i)*		0.0187 B	0.01	<0.1	<0.01 H	ns	0.01	0.04 U	<0.010	<0.0010	<0.01	<0.010
Potassium			9.54 N,A	na	na	na	ns	na	8.79 J^	5.8	6.8	5.4	5.9
Selenium	*0.05*	*0.05*	0.0307 N	0.026 C	0.032 C	0.03 C	ns	na	0.035 U	0.029	0.027	0.026	0.026
Silicon				na	17	na	ns	na	na	na	na	na	na
Silver	*0.05*	*0.10(s)*	0.0049 B	<0.001	<0.001	<0.001 I	ns	<0.001	0.01 U	<0.0050	<0.0010	<0.001	<0.0050
Sodium			139 N,A	na	na	na	ns	na	163	150	160	150	160
Strontium				na	2.3	na	ns	na	na	na	na	na	na
Thallium		*0.002*	<0.0033 U	na	na	na	ns	<0.001	0.025 U	<0.0025	<0.0010	<0.001	<0.00025
Tin				na	<0.1	na	ns	na	na	na	na	na	na
Uranium	*0.03*	*0.03*						0.017	na	na	na	0.015	0.015
Vanadium			0.0378 B	na	<0.1	na	ns	0.01	0.0025 L,J	0.0044 J	<0.020	0.003	<0.050
Zinc	*10*	*5(s)*	0.177 N,A	0.03	0.1	0.07 H	ns	0.12	0.0045 L,J	0.0032 J	<0.020	<0.01	<0.010

Table 3: Historical Groundwater Analytical Data Per Well
Cal West Metals Superfund Sixth Five-Year Review
CWMW-9 (results in milligrams per liter)

Analyte	WQCC Standard	EPA MCL	Apr-96	Apr-97	Apr-98	Apr-98(D)	Apr-99	Apr-99(D)	Apr-00	2-Aug	5-Feb	Feb-05(D)	11-Aug	14-Dec	Dec-14(D)	19-Aug	24-Oct
Dissolved Metals:																	
Aluminum	*5*	*0.05-0.2(s)*	0.0684 B	<0.01	<0.1 H	ns	<0.01 C,H	ns	<0.01	<0.01 C,H	0.2 U	0.0002 U	<0.020	<0.50	<0.050	<0.010	<0.020
Antimony		*0.006*	<0.0124 U	<0.001	<0.001	ns	0.003 C,H	ns	<0.001 C,H	<0.001 C,H	0.06 U	0.06 U	0.00022 J	<0.0010	<0.0010	<0.001	<0.0010
Arsenic	*0.01*	*0.01*	0.0092 B	0.008 C,H	0.006 C	ns	0.005 C,H	ns	0.006	0.009 C,H	0.01 U	0.01	0.0075	0.0072	0.0071	0.008	0.0064
Barium	*2*	*2*	0.0794 B	<0.1	<0.1 C,H	ns	<0.1 C,H	ns	<0.1 C,H	<0.1 C,H	0.0596 L,J	0.0596 L,J	0.053	0.045	0.044	0.048	0.044
Beryllium	*0.004*	*0.004*	<0.0006 U	na	<0.05 C,H	ns	na	ns	na	<0.001	0.005 U	0.005 U	0.00032 J	<0.0010	<0.001	<0.001	<0.0020
Boron	*0.75(i)*		na	na	0.2 C,H	ns	na	ns	na	na	na	na	na	0.14	0.14	0.19	0.19
Cadmium	*0.005*	*0.005*	<0.0009 U	<0.001	<0.1 C,H	ns	<0.001 C,H	ns	<0.001 C,H	<0.001 C,H	0.005 U	0.005 U	<0.0020	<0.0010	<0.0010	<0.001	<0.0020
Calcium			110 E	na	120 H	ns	na	ns	na	na	133	133	140	69	72	140	130
Chromium	*0.05*	*0.1*	<0.0049 U	na	<0.1 C,H	ns	na	ns	na	0.004 C,H	0.01 U	0.01 U	0.0012 J	0.0014	0.0018	<0.001	<0.0060
Cobalt	*0.05*		<0.0018 U	na	<0.05 C,H	ns	na	ns	na	<0.001 C,H	0.05 U	0.05 U	0.0014 J	<0.0010	<0.0010	<0.001	<0.0060
Copper	*1*	*1*	<0.0047 U	<0.01	<0.1 C,H	ns	<0.01 C,H	ns	<0.01	<0.01 C,H	0.025 U	0.025 U	<0.0060	<0.020	<0.020	<0.010	0.0012
Iron	*1*	*0.3(s)*	0.0525 B	<0.05 C	<0.1 C,H	ns	<0.05	ns	<0.05 C,H	na	0.1 U	0.1 U	<0.020	<0.10	<0.10	<0.05	<0.020
Lead	*0.015*	*0.015*	0.0012 B	<0.001	<0.001	ns	<0.001 C,H	ns	<0.001 C,H	<0.001 C,H	0.01 U,R	0.01 U,R	<0.0010	<0.0050	<0.0050	<0.001	0.00079
Magnesium			19.9 N,A	na	24 H	ns	na	ns	na	na	23.9	23.9	24	16	17	25	27
Manganese	*0.2*	*0.05(s)*	0.0034 B	<0.001	<0.05 C,H	ns	<0.001 C,H	ns	0.002	<0.001	0.00091 L,J^	0.00091 L,J^	0.00025 J	0.0023	0.0022	<0.001	0.0043
Mercury	*0.002*	*0.002*	<0.0001 U	<0.0002	<0.0002	ns	na	ns	<0.0002	na	0.0002 U	0.0002 U	na	<0.00020	<0.00020	<0.0002	<0.00020
Molybdenum	*1.0(i)*		na	na	0.002	ns	na	ns	na	0.002 C,H	0	na	na	0.0017	0.0016	0.002	<0.0080
Nickel	*0.2(i)*		<0.0037 U	<0.01	<0.1 C,H	ns	<0.01 C,H	ns	<0.01	<0.01 C,H	0.04 U	0.04 U	<0.010	0.0034	0.0032	<0.010	<0.010
Potassium			5.05 E	na	na	ns	na	ns	na	na	7.21 j^	7.21 J^	5.7	8	7.5	6.1	6
Selenium	*0.05*	*0.05*	0.0172 E	<0.005 D	0.009 C,H	ns	0.006 C	ns	0.008 C	na	0.035 U	0.035 U	0.0081	0.0079	0.0079	0.012	0.0092
Silicon			na	na	15 C,H	ns	na	ns	na	na	0	na	na	na	na	na	na
Silver	*0.05*	*0.10(s)*	<0.0034 U	<0.001	<0.1 C,H	ns	<0.001 C,H	ns	<0.001 C,H	<0.001 C,H	0.01 U	0.01 U	<0.0050	<0.0010	<0.0010	<0.001	<0.0050
Sodium			74.6 E	na	na	ns	na	ns	na	na	83.7	83.7	99	110	110	110	99
Strontium			na	na	1.3 C,H	ns	na	ns	na	na	0	na	na	na	na	na	na
Thallium		*0.002*	<0.0033 U	na	na	ns	na	ns	na	<0.001 C,H	0.025 U	0.025 U	<0.0010	<0.0010	<0.0010	<0.001	<0.00025
Tin			na	na	<0.1 C,H	ns	na	ns	na	na	0	na	na	na	na	na	na
Uranium	*0.03*	*0.03*								0.018 C,H	0	na	na	na	na	0.02	0.015
Vanadium			0.0074 B	na	<0.1 H	ns	na	ns	na	0.006 C,H	0.0053 L,J	0.0053 L,J	0.0080 J	<0.020	<0.020	0.006	<0.050
Zinc	*10*	*5(s)*	0.011 B	0.02	<0.1 C,H	ns	<0.01 C,H	ns	0.01	0.02	0.0092 L,J	0.0092 L,J	0.01	<0.020	<0.020	<0.010	<0.010
Analyte	**WQCC Standard**	**EPA MCL**	**Apr-96**	**Apr-97**	**Apr-98**	**Apr-98(D)**	**Apr-99**	**Apr-99(D)**	**Apr-00**	**2-Aug**	**5-Feb**	**Feb-05(D)**	**11-Aug**	**14-Dec**	**Dec-14(D)**	**19-Aug**	**24-Oct**
Total Metals:																	
Aluminum	*5*	*0.05-0.2(s)*	47.5 N,A	15 C,H	5.1	4.9	2	1.9 H	3.9	0.98	18.9	0.2 U	0.18	<0.050	<0.050	<0.01	0.21
Antimony		*0.006*	0.0412 B,N	<0.001 C,H	<0.001	<0.001	<0.001	<0.001 C,H	<0.001	<0.001	0.06 U	0.06 U	<0.0025	<0.0010	<0.0010	<0.001	<0.0010
Arsenic	*0.01*	*0.01*	0.0913 N	0.034 C,H	0.018	0.02	0.009	0.007 C,H	0.013 C	0.009	0.0277	0.0089 L,J	0.007	0.0076	0.0061	0.007	0.0071
Barium	*2*	*2*	7.09 N,A	2.3 C,D	1	1.1 C	0.3	0.3 H	0.6	0.2	2.44	0.0588 L,J	0.076	0.053	0.054	0.052	0.071
Beryllium	*0.004*	*0.004*	0.0014 B	na	<0.05 C	<0.05 C	na	na	na	<0.001	0.005 U	0.005 U	<0.0020	<0.0010	<0.0010	<0.001	<0.0020
Boron	*0.75(i)*		na	na	0.2 C	0.2 C	na	na	na	na	na	na	na	0.13	0.12	0.19	0.18

Cadmium	*0.005*	*0.005*	<0.0015 U	<0.001 C,H	<0.1 C	<0.1 C	<0.001	<0.001 H	<0.002	<0.001	0.005 U	0.005 U	<0.0020	<0.0010	<0.0010	<0.001	<0.0020
Calcium			140 N,A	na	130	120 C	na	na	na	na	139	131	130	73	64	140	130
Chromium	*0.05*	*0.1*	0.121 N,A	na	<0.1 C	<0.1 C	na	na	na	<0.005	0.0411	0.0013	0.0028 J	0.014	0.028	0.003	<0.0060
Cobalt	*0.05*		0.045 B	na	<0.05 C	<0.05 C	na	na	na	0.001	0.0128 L,J	0.05 U	0.0014 J	<0.0010	<0.0010	<0.001	<0.0060
Copper	*1*	*1*	0.0932 N,A	0.03 C,H	<0.1 C	<0.05 C	<0.01	<0.01 C,H	<0.01	<0.01	0.029	0.025 U	0.0011 J	<0.020	<0.020	<0.01	0.0023
Iron	*1*	*0.3(s)*	66.1 N,A	20 H	7.4	7	2.9	2.6 C,H	5.6	na	21.3	0.1 U	0.2	<0.10	0.16	<0.05	0.24
Lead	*0.015*	*0.015*	0.0753 N,E	0.022 H	0.013	0.018	0.005	0.004 C,H	0.008	0.003	0.01 U,R	0.01 U,R	0.00033 J	<0.0050	<0.0050	<0.001	0.0029
Magnesium			31.5 N,A	na	23	23 C	na	na	na	na	27	23.5	24	17	15	26	25
Manganese	*0.2*	*0.05(s)*	1.64 N,A	0.58 C,H	0.25 C	0.3 C	0.08	0.074 C,H	0.16	0.043	0.531	0.00094 L,J^	0.004	0.0068	0.0068	<0.001	0.01
Mercury	*0.002*	*0.002*	0.00029 N,A	<0.0002	<0.0002	<0.0002	<0.0002	na	<0.0002	na	0.00013 L,J	0.0002 U	0.000038 J	<0.00020	<0.00020	<0.0002	<0.00020
Molybdenum	*1.0(i)*		na	na	<0.1 C	<0.1 C	na	na	na	0.003	na	na	na	0.0019	0.0025	0.002	<0.0080
Nickel	*0.2(i)*		0.0717 N,A	0.02 C,H	<0.1 C	<0.1 C	<0.01	<0.01 C,H	<0.01	<0.01	0.0236 L,J	0.04 U	<0.010	0.0095	0.014	<0.01	<0.010
Potassium			14.1 N,A	na	na	na	na	na	na	na	12 J^	6.64 J^	5.6	8.5	7.2	6.3	5.6
Selenium	*0.05*	*0.05*	0.0181 N	<0.005 D,F,H	0.01 C	0.01 C	0.01 C	0.005 C	0.007 C	na	0.035 U	0.035 U	0.0069	0.0077	0.006	0.009	0.0098
Silicon			na	na	25	22 C	na	na	na	na	na	na	na	na	na	na	na
Silver	*0.05*	*0.10(s)*	<0.0033 U	<0.001 C,H	<0.1 C	<0.1 D	<0.001	<0.001 C,H	<0.001	<0.001	0.01 U	0.01 U	<0.0050	<0.0010	<0.0010	<0.001	<0.0050
Sodium			81.8 N,A	na	na	na	na	na	na	na	83.3	82.5	97	110	100	110	88
Strontium			na	na	1.3	1.3 C	na	na	na	na	0	na	na	na	na	na	na
Thallium		*0.002*	<0.0033 U	na	na	na	na	na	na	<0.001	0.025 U	0.025 U	<0.0025	<0.0010	<0.0010	<0.001	<0.00025
Tin			na	na	0.1 D	<0.1	na	na	na	na	0	na	na	na	na	na	na
Uranium	*0.03*	*0.03*								0.017	0	na	na	na	na	0.019	0.014
Vanadium			0.132 N,A	na	<0.1 C	<0.1 C	na	na	na	0.007	0.0495 L,J	0.0049 L,J	0.0064 J	<0.02	<0.02	0.005	<0.050
Zinc	*10*	*5(s)*	1.27 N,A	0.42 C,H	0.2 C	0.3 C	0.07	0.07 C,H	0.12	0.11	0.303	0.008 L,J	0.0084 J	<0.02	<0.02	<0.01	0.011

Table 3: Historical Groundwater Analytical Data Per Well Cal West Metals Superfund Site Sixth Five-Year Review CWMW-10 (results in milligrams per liter)									
Analyte	**WQCC Standard**	**EPA MCL**	**5-Feb**	**11-Aug**	**Aug-11(D)**	**14-Dec**	**19-Aug**	**Aug-19(D)**	**24-Oct**
Dissolved Metals:									
Aluminum	*5*	*0.05-0.2(s)*	0.2 U	<0.020	<0.020	<0.050	<0.010	<0.010	<0.020
Antimony		*0.006*	0.06 U	0.00027 J	0.00027 J	<0.0010	<0.001	<0.001	<0.0010
Arsenic	*0.01*	*0.01*	0.01	0.0095	0.0093	0.0095	0.011	0.011	0.0064
Barium	*2*	*2*	0.0667 L,J	0.055	0.054	0.042	0.045	0.045	0.046
Beryllium	*0.004*	*0.004*	0.005 U	0.00033 J	0.00027 J	<0.0010	<0.001	<0.001	<0.0020
Boron	*0.75(i)*		na			0.12	0.2	0.21	0.17
Cadmium	*0.005*	*0.005*	0.005 U	<0.0020	<0.0020	<0.0010	<0.001	<0.001	<0.0020
Calcium			129	140	130	70	140	140	130
Chromium	*0.05*	*0.1*	0.01 U	0.00047 J	0.00093 J	<0.0010	0.001	0.001	<0.0060
Cobalt	*0.05*		0.05 U	0.0012 J	0.0013 J	<0.0010	<0.001	<0.001	<0.0060
Copper	*1*	*1*	0.025 U	<0.00066	<0.0060	<0.020	<0.010	<0.010	0.00053
Iron	*1*	*0.3(s)*	0.1 U	<0.020	<0.020	<0.10	<0.05	0.09	<0.020
Lead	*0.015*	*0.015*	0.01 U,R	0.000038 J	0.000033 J	<0.0050	<0.001	<0.001	<0.00050
Magnesium			21.4	24	23	16	25	26	26
Manganese	*0.2*	*0.05(s)*	0.0029 L,J	0.0045	0.0048	0.0046	0.005	0.005	<0.0020
Mercury	*0.002*	*0.002*	0.0002 U	na	na	<0.00020	<0.0002	<0.0002	<0.00020
Molybdenum	*1.0(i)*		na	na	na	0.0015	0.002	0.002	<0.0080
Nickel	*0.2(i)*		0.04 U	<0.010	<0.010	0.0012	<0.010	<0.010	<0.010
Potassium			6.47 J^	5.3	5.4	6.9	5.7	5.7	5.8
Selenium	*0.05*	*0.05*	0.0187 L,J	0.01	0.0096	0.0085	0.012	0.011	0.011
Silicon			na	na	na	na	na	na	na
Silver	*0.05*	*0.10(s)*	0.01 U	<0.0050	<0.0050	<0.0010	<0.001	<0.001	<0.0050
Sodium			96.4	100	100	110	110	110	92
Strontium			na	na	na	na	na	na	na
Thallium		*0.002*	0.025 U	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.00025
Tin			na	na	na	na	na	na	na
Uranium	*0.03*	*0.03*	na	na	na	na	0.02	0.02	0.013
Vanadium			0.0053 L,J	0.0079 J	0.0076	<0.020	0.006	0.006	<0.050
Zinc	*10*	*5(s)*	0.0023 L,J	0.014	0.012	<0.020	<0.010	<0.010	<0.010
Analyte	**WQCC Standard**	**EPA MCL**	**5-Feb**	**11-Aug**	**Aug-11(D)**	**14-Dec**	**19-Aug**	**Aug-19(D)**	**24-Oct**
Total Metals:									
Aluminum	*5*	*0.05-0.2(s)*	1.98	0.027	0.033	<0.050	0.11	0.09	0.052
Antimony		*0.006*	0.06 U	<0.0020	<0.0020	<0.0010	<0.001	<0.001	<0.0010
Arsenic	*0.01*	*0.01*	0.0084 L,J	0.0093	0.0095	0.008	0.01	0.01	0.0067
Barium	*2*	*2*	0.591	0.059	0.062	0.077	0.085	0.075	0.062
Beryllium	*0.004*	*0.004*	0.005 U	<0.0020	<0.0020	<0.0010	<0.001	<0.001	<0.0020
Boron	*0.75(i)*		na	na	na	0.14	0.2	0.2	0.17
Cadmium	*0.005*	*0.005*	0.005 U	<0.0020	<0.0020	<0.001	<0.001	<0.001	<0.0020
Calcium			134	130	140	72	140	140	130
Chromium	*0.05*	*0.1*	0.0031 L,J	0.0017 J	0.0019 J	0.023	0.013	0.013	<0.0060
Cobalt	*0.05*		0.0033 L,J	0.00087 J	0.00066 J	<0.0010	<0.001	<0.001	<0.0060
Copper	*1*	*1*	0.0037 L,J	0.00087 J	0.0014 J	<0.020	<0.01	<0.01	0.0006
Iron	*1*	*0.3(s)*	2.21	0.037	0.046	0.18	0.2	0.17	<0.050
Lead	*0.015*	*0.015*	0.01 U,R	<0.0025	<0.0025	<0.0050	<0.001	<0.001	<0.00050
Magnesium			22.5	23	23	16	25	25	24
Manganese	*0.2*	*0.05(s)*	0.163	0.0057	0.006	0.011	0.011	0.01	<0.0020
Mercury	*0.002*	*0.002*	0.002 U	0.000040 J	0.000042 J	<0.00020	<0.0002	<0.0002	<0.00020
Molybdenum	*1.0(i)*		na	na	na	0.0025	0.002	0.002	<0.0080
Nickel	*0.2(i)*		0.0038 L,J	<0.010	<0.010	0.013	<0.01	<0.01	<0.010
Potassium			7.03 J^	5.2	5.3	6.4	5.7	5.8	5.6
Selenium	*0.05*	*0.05*	0.0193 L,J	0.0087	0.0089	0.0067	0.009	0.01	0.013
Silicon			na	na	na	na	na	na	na
Silver	*0.05*	*0.10(s)*	0.01 U	<0.0050	<0.0050	<0.0010	<0.001	<0.001	<0.0050
Sodium			99.5	100	100	110	110	120	85
Strontium			na	na	na	na	na	na	na
Thallium		*0.002*	0.025 U	<0.0025	<0.0025	<0.0010	<0.001	<0.001	<0.00025
Tin			na	na	na	na	na	na	na
Uranium	*0.03*	*0.03*	na	na	na	na	0.018	0.019	0.011
Vanadium			0.011 L,J	0.0061	0.0063 J	<0.020	0.018	0.006	<0.050
Zinc	*10*	*5(s)*	0.0096 L,J	<0.010	0.00092 J	<0.020	<0.01	<0.01	<0.010

KEY

Data Qualifier Codes and Definitions for Table 3:

A=Insufficient sample for analysis

B=Laboratory Reagent Blank

BOLD=exceeds WQCC or EPA MCL

C=Spike recovery between 80-120%

D=Spike recovery <80% or >120%

(D)=Duplicate sample

E=Over Calibration Range

EPA MCL=EPA Maximum Contaminant Level

F=Matrix interference suspected

G=Inconsistent results; suggest re-sampling

H=Analyzed in duplicate

J=result is estimated because of outlying quality control parameters such as matrix spike, serial dilutions, etc., or the result is below the contract required quantitation limit.

L=reported concentration is between the method detection limit and the contract required quantitation limit.

na=not analyzed

ns=not sampled

os=WQCC other standard for domestic water supply

R=The data are unusable

s=secondary standard

U=Not detected above the Practical Quantitation Limit (PQL) or SQL

WQCC=Water Quality Control Commission

^=High Biased

APPENDIX G – SITE PHOTOS

Photo # 1: Sign marking boundary of repository cell (looking west). Photo by Joshua Faulconer.

Photo # 2: Sign marking boundary of repository cell (looking north). Photo by Joshua Faulconer.

Photo # 3: Sign marking boundary of repository cell (looking south). Photo by Joshua Faulconer.

Photo # 4: Repository cell in good condition, no evidence of ponding or animals burrowing. (looking northwest). Photo by Joshua Faulconer.

Photo # 5: NMED staff using the HydraSleeve sampling technique at CWMW-9 (looking north). Photo by Joshua Faulconer.

Photo # 6: NMED staff using a disk filter to obtain dissolved metal sample (looking southwest). Photo by Joshua Faulconer.