



PROPOSED PLAN FOR CLEANUP AT MOTOROLA, INC. 52ND STREET SUPERFUND SITE Operable Unit 3

U.S. Environmental Protection Agency

Pacific Southwest Region

November 2024

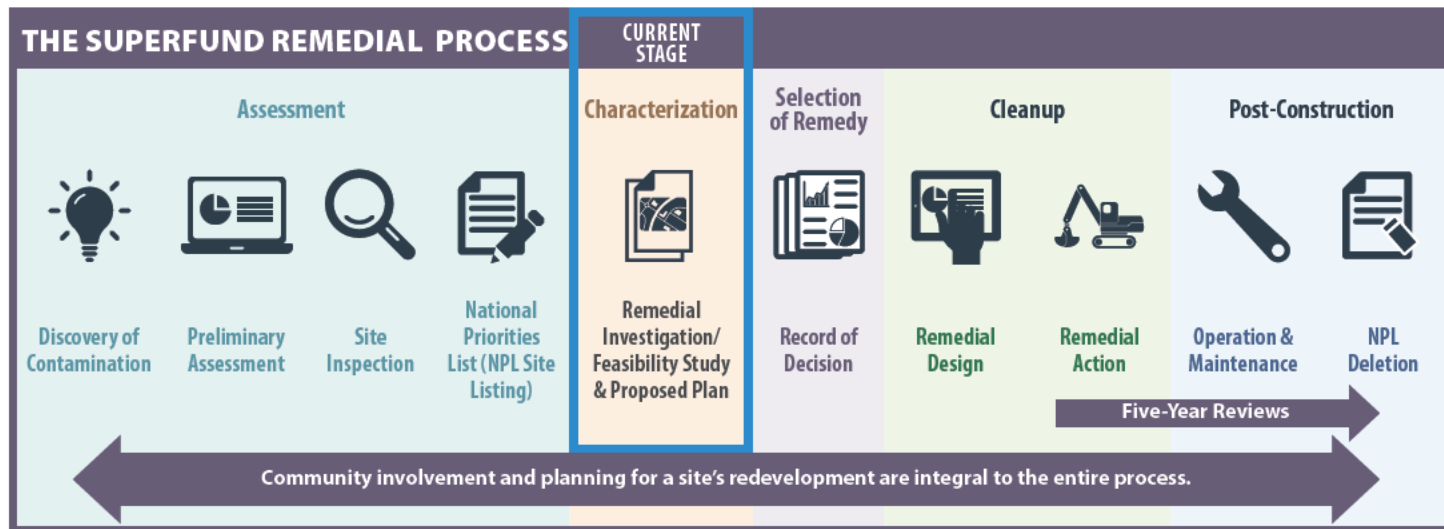
The U.S. Environmental Protection Agency (EPA) is seeking public input on a Proposed Plan to address contaminants in the groundwater at the Motorola, Inc. 52nd Street(M52) Superfund Site (Site) Operable Unit 3 (OU3) in Phoenix, Arizona

WHAT IS SUPERFUND?

Superfund is a cleanup program to address contamination that poses a threat to human health and the environment. It is the common name for the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This federal law authorizes EPA to clean up contaminated sites.

EPA's detailed Proposed Plan can be found at epa.gov/superfund/motorola52ndst. The public is encouraged to review and comment on this plan during a **45-day public comment period from Nov 1-Dec 15, 2024.**

EPA will provide responses to the comments received and will record the responses in a document called a Responsiveness Summary. After considering all comments, EPA will select a final cleanup remedy and document it in a **Record of Decision.**



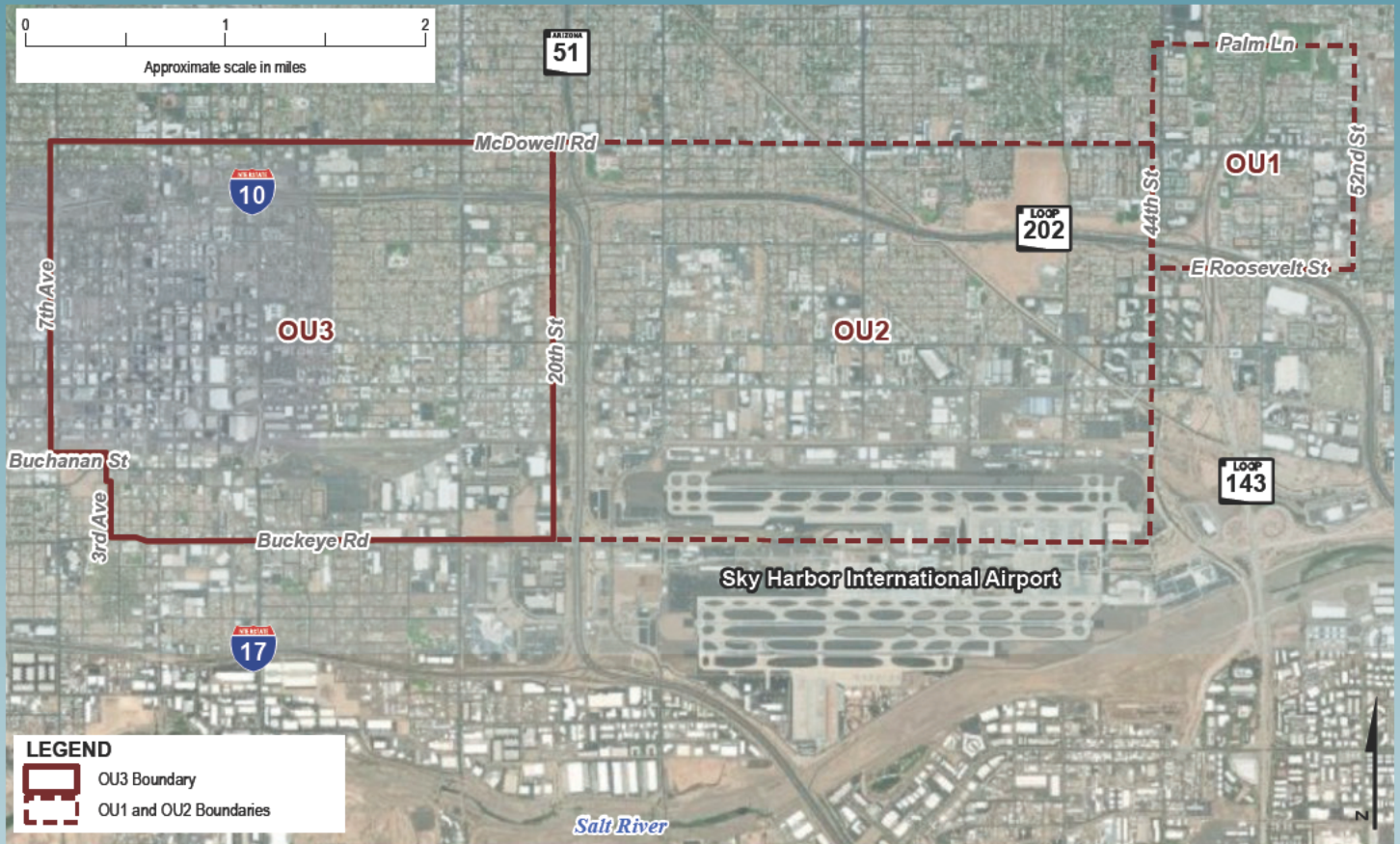


FIGURE 1

SITE BACKGROUND

The Motorola Inc. 52nd Street Site was listed on Superfund program’s National Priorities List (NPL) in 1989 and consists of an area of contaminated groundwater over 7 miles long that has been divided into three study areas: Operable Units 1, 2, and 3. OU3, the westernmost part of the Superfund Site, is bordered by McDowell Road to the north, 20th Street to the east, Buckeye Road to the south, and 7th Avenue to the west (see Figure 1).

Industrial and commercial activities caused groundwater contamination at the Site. These activities included dry cleaning; heating, ventilation and air conditioning equipment manufacturing; railroad activities; semiconductor manufacturing; and aerospace and jet engine design.

The contaminants in groundwater at OU3 are trichloroethene (TCE), 1,4-dioxane, 1,1-dichloroethane (DCA), 1,2,4-trichlorobenzene and naphthalene. These chemicals are liquids that were used as solvents or parts of solvent mixtures. Releases of these chemicals from these types of facilities were not uncommon and impacted groundwater at the Site. For more information about these contaminants, please visit the Agency for Toxic Substances and Disease Registry at atsdr.cdc.gov.

EPA’S PROPOSED PLAN

The proposed cleanup action aims to prevent contaminants in the groundwater from spreading, prevent human exposure to contaminants above cleanup levels, and restore groundwater to drinking water standards.

The Proposed Plan describes the evaluation of six cleanup alternatives for the groundwater contamination in OU3. It also outlines EPA’s preferred alternative, Alternative 4, which was determined by applying specific Superfund criteria in the evaluation process. These criteria are listed in the full Proposed Plan.

THE ALTERNATIVES (CLEANUP OPTIONS) EPA CONSIDERED

- **Alternative 1—No Action:** This is always a required alternative in the Superfund evaluation process
- **Alternative 2—Monitored Natural Attenuation (MNA):** monitoring of the breakdown of toxic chemicals until the Site reaches safe cleanup levels. MNA is included as an element of Alternatives 3 through 6
- **Alternative 3—In Situ Injection and MNA:** injection of amendments in a line of injection wells west of the western OU3 boundary to control and contain groundwater contamination
- **Alternative 4—(EPA's Preferred Alternative) Targeted In Situ Injection and MNA:** targeted injection of amendments to reduce contaminant concentrations in areas with highest concentrations in the western part of OU3
- **Alternative 5—Hydraulic Containment and MNA:** groundwater extraction, groundwater treatment, and reinjection of treated groundwater to address contamination near the western boundary of OU3
- **Alternative 6—Hydraulic Containment with Targeted In Situ Injection and MNA:** combination of Alternatives 4 and 5

EPA PREFERS ALTERNATIVE 4: TARGETED IN SITU INJECTION AND MONITORED NATURAL ATTENUATION

Alternative 4—Targeted In Situ Injection and Monitored Natural Attenuation (MNA) is EPA's Preferred Alternative. In Situ Injection treats contaminants in groundwater by injecting amendments directly into the groundwater (see Figure 2). The injected compounds break down the contaminants into materials that are no longer harmful to human health and the environment, therefore reducing the amount of contamination in groundwater.

Targeted In Situ Injection is well-suited for use in OU3 because the area is densely developed, which limits the ability to undertake large construction projects without causing extensive impact to the public and businesses. Other alternatives require more extensive and disruptive construction. Injections will be performed where the highest concentrations of contaminants are present at OU3 to achieve all cleanup goals. With natural attenuation, toxic chemicals continue to break down until the Site reaches safe cleanup levels. Monitoring will be conducted to document concentrations to ensure reduction of contaminants in groundwater. MNA would be used in the areas with lower contaminant concentrations. Natural attenuation may already be occurring in OU3 (see Figure 3).

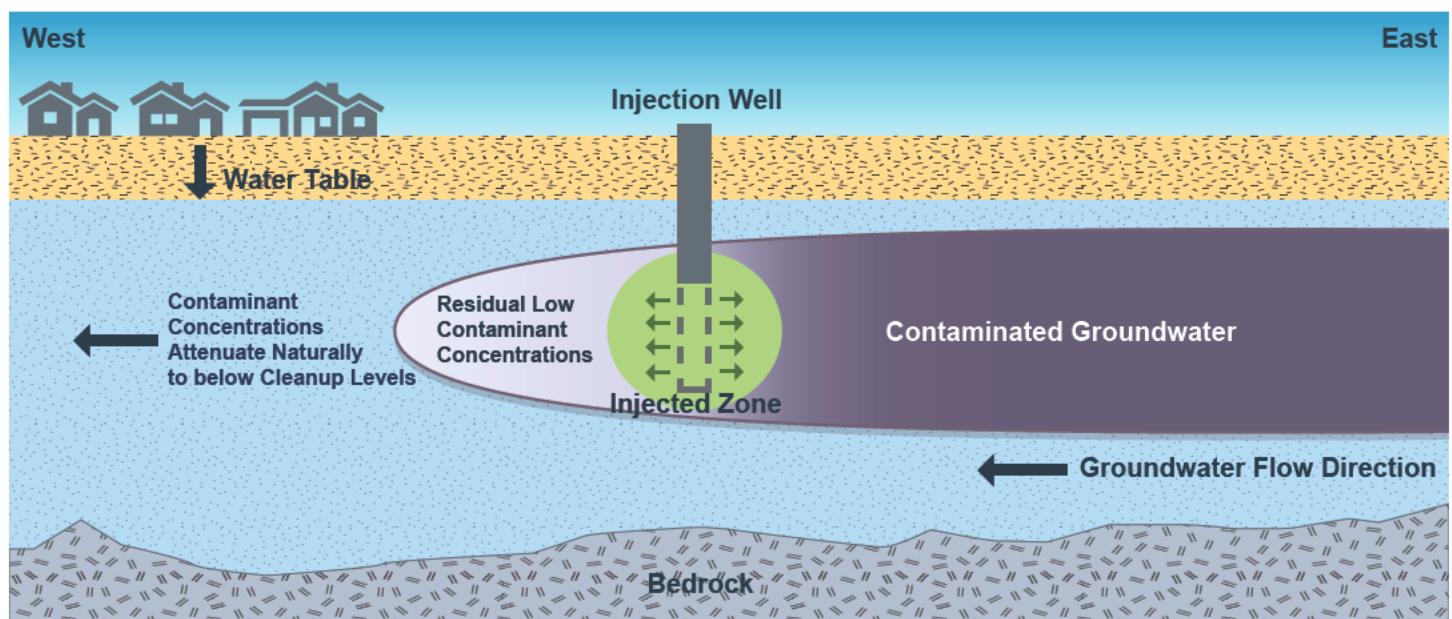


FIGURE 2

The cleanup of OU3 groundwater in Alternative 4 is estimated to be achieved in nine years, compared to 15 years in Alternatives 2, 3 and 5, because targeted in situ injection would reduce contamination in the higher concentration areas more quickly. Alternative 6 would also take nine years to achieve cleanup goals, but it has substantially more construction and disruption to the public and businesses and is not as cost effective.

EPA believes Preferred Alternative 4 provides the best solution for addressing contamination in OU3 among the alternatives that were evaluated.

EPA BELIEVES PREFERRED ALTERNATIVE 4 WILL:

- Protect human health and the environment,
- Comply with all applicable state and federal requirements,
- Achieve cleanup goals,
- Restore groundwater to beneficial use as a potential drinking water source within a shorter timeframe,
- Be implementable with the least disruptions and construction,
- And be cost effective when evaluating all the alternatives.

The Arizona Department of Environmental Quality concurs with the Preferred Alternative as it will meet the Aquifer Water Quality Standards established for protecting drinking water.



GLOSSARY

Groundwater: Water that is present in the ground and is stored in the spaces between soil particles and rocks.

In Situ: in place.

Natural Attenuation: Natural attenuation relies on natural processes to decrease concentrations of contaminants in soil and groundwater.

Record of Decision: A report that documents how EPA and other agencies will clean up or address contamination at a Superfund site.



IS MY DRINKING WATER SAFE?

Yes. The Phoenix Water Department provides water that meets all state and federal drinking water health standards.

For more information, please visit: phoenix.gov/waterservices/waterquality#WaterFAQs



IS TARGETED IN SITU INJECTION SAFE?

- Targeted In Situ Injection poses little risk to surrounding community.
- Workers wear protective clothing while handling reducing agents and drilling injection and monitoring locations.
- People are not exposed to contamination as the process works underground.
- Groundwater is monitored to ensure that the process is working effectively.

WHY USE TARGETED IN SITU INJECTION?

- Can treat complex contaminants.
- Can address contaminants without requiring excavation, pumping or transportation.

HOW MIGHT THIS CLEANUP AFFECT ME?

- Increased truck traffic and noise as wells are drilled and reducing agents are delivered and injected.
- Workers will occasionally visit locations for injection of materials and monitoring.
- Even though you may not be able to see the groundwater become less contaminated, community members will benefit from EPA's improvements to human health and the environment via groundwater restoration.

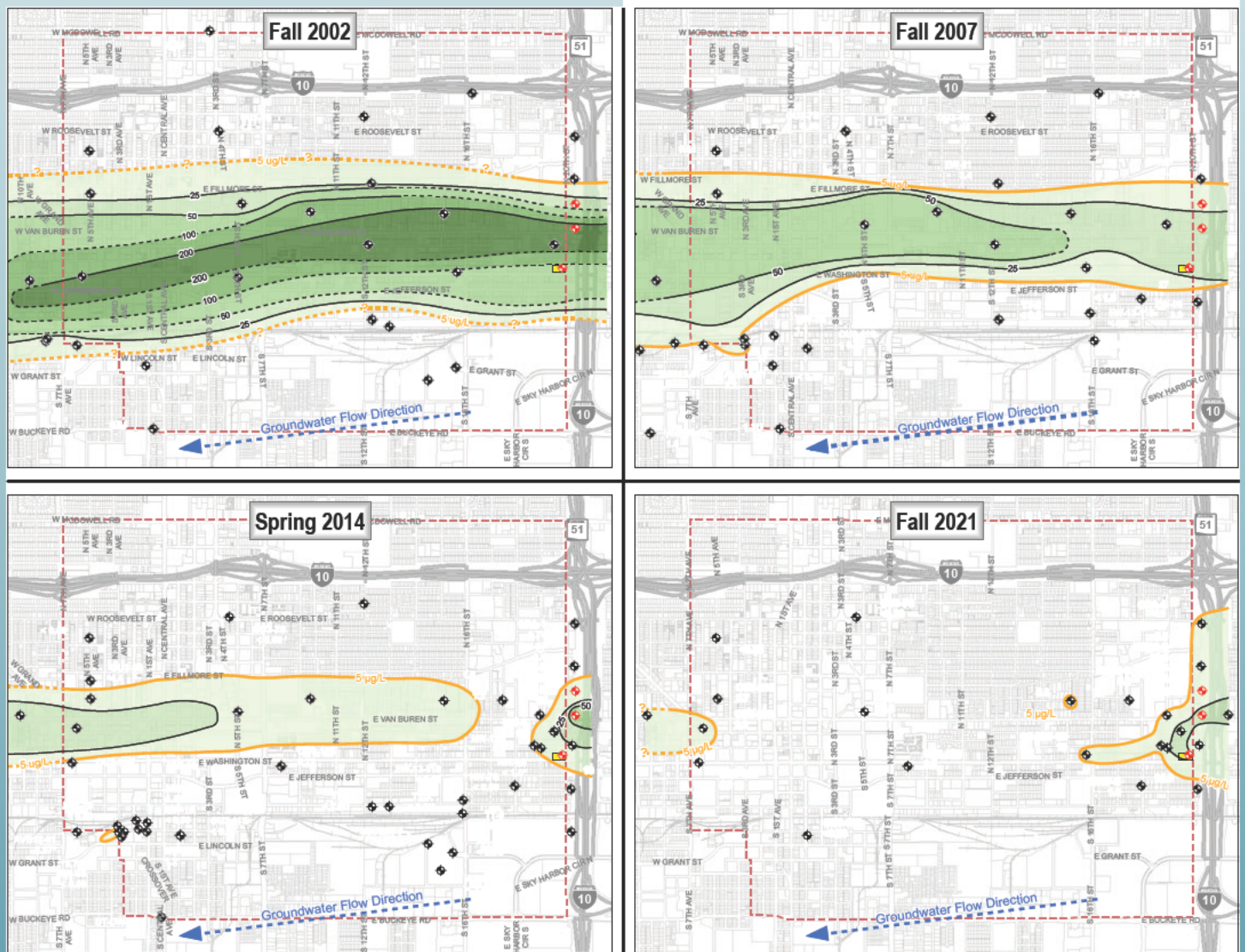


FIGURE 3

PUBLIC COMMENT PERIOD

The Proposed Plan is available for public comment from **Nov 1 to Dec 15, 2024**. To provide comments to EPA:

- Read the document online at epa.gov/superfund/motorola52ndst. You can also read the document at the information repositories listed on page 7.
- Attend the Proposed Plan public meeting on Nov 13 and submit comments in person after EPA's presentation. The meeting will be held at 5pm at the Burton Barr Library.
- Or send your comments to EPA by email (Cooper.Carolyn@epa.gov) or standard mail:
**United States Environmental Protection Agency, Region 9
75 Hawthorne Street (SFD-8-1)
San Francisco, CA 94105
Attn: Carolyn Cooper**
- Call our hotline **1.800.231.3075** and leave your comment as a voice message (Spanish comments will be translated)

PUBLIC COMMENT TIPS

- Prepare for commenting by familiarizing yourself with the Proposed Plan and relevant laws.
- Identify your key issues and concerns.
- Identify allies who can help with the document review and understanding of the report and coordinate your comments to strengthen your message.
- Be specific with your comments, including what you think could improve the proposed plan and what you think is missing about the plan.
- Commenting is an important way to make your voice heard and helps EPA with decision-making.



USEFUL LINKS

EPA's Superfund Program
epa.gov/superfund

Superfund Community Involvement
epa.gov/superfund/superfund-community-involvement

This is Superfund: A Community Guide to EPA's Superfund Program
semspub.epa.gov/work/HQ/175197.pdf

EPA's Motorola Inc. 52nd Street Superfund Site Page
epa.gov/superfund/motorola52ndst

Arizona Department of Environmental Quality (ADEQ)
azdeq.gov

ADEQ's Motorola 52nd Street Superfund Site Page
azdeq.gov/superfund/motorola-52nd-street

COMMUNITY INVOLVEMENT AND PARTICIPATION

EPA believes an engaged public benefits and strengthens the cleanup process. EPA is committed to providing and encouraging public participation so the people whose lives have been impacted by the Site and cleanup have a say in how it is cleaned up. EPA will strive to maintain a consistent community presence and build relationships with the community and Tribal, state, local and other federal government agencies.

In 2025 the Site team will be updating the Site Community Involvement Plan. If you would like to be interviewed and contribute to this update, please send an email to: Community Involvement Coordinator, Georgia Thompson, Thompson.Georgia@epa.gov.



EPA STAFF PROVIDING INFO ABOUT THE SUPERFUND PROGRAM AT "PARKPALOOZA" COMMUNITY EVENT IN PHOENIX, 2024

FOR QUESTIONS, PLEASE CONTACT:

Carolyn Cooper

EPA Project Manager

Phone: 415.972.3147

Email: Cooper.Carolyn@epa.gov

Georgia Thompson

EPA Community Involvement Coordinator

Phone: 628.629.2596

E-mail: Thompson.Georgia@epa.gov

Or leave a message on EPA's Toll-free line at 1.800.231.3075

COMMUNITY INFORMATION GROUP

If you are interested in learning more about cleanup progress at the Site, please consider attending the semi-annual M52 Community Information Group (CIG). All community members and interested parties are welcome to attend.

To receive notifications about CIG meetings please email Remedial Project Manager Travis Wicks, wicks.travis@epa.gov or sign up for the Site's mailing list at our website: epa.gov/superfund/motorola52ndst

Arizona Department of Environmental Quality (ADEQ) has a useful website with environmental resources including upcoming community events and meetings. Visit azdeq.gov/MyCommunity for more info.

INFORMATION REPOSITORY

M52 Site-related documents are available at the EPA Record Centers below.



BURTON BARR LIBRARY

1221 N. Central Ave.

Phoenix, AZ 85004

Phone: 520-594-5390

Hours: Monday, Friday, Saturday:
9 am – 5 pm

Tuesday – Thursday: 9 am – 7 pm

Sunday: 1 pm – 5 pm

EPA REGION 9 RECORDS CENTER

75 Hawthorne Street

San Francisco, CA 94105

Phone: 415-947-4406 or

Email: R9Records@epa.gov

Hours: Monday – Friday, 9am – 5 pm

United States Environmental Protection Agency
Region 9
75 Hawthorne Street (SFD-8-1)
San Francisco, CA 94105
Attn: Georgia Thompson

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EPA INVITES YOU TO A PUBLIC MEETING

NOVEMBER 13, 2024

Poster Session 5:00 – 5:30 pm

**Public Meeting and Comments
5:30 – 7:30 pm**

The U.S. Environmental Protection Agency (EPA) is seeking public input on a Proposed Plan to address contaminants in the groundwater at the Motorola, Inc. 52nd Street (M52) Superfund Site (Site) Operable Unit 3 (OU3) in Phoenix, Arizona.

45-DAY PUBLIC COMMENT PERIOD

November 1 – December 15, 2024

EPA will accept comments on this Proposed Plan during a 45-day public comment period from November 1 – December 15, 2024.

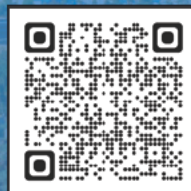
More details inside.

IN-PERSON:

Burton Barr Central Library – Nina Mason Pulliam Auditorium – First Floor
1221 N. Central Ave.
Phoenix, AZ

VIRTUAL:

Please send us an email or visit epa.gov/superfund/motorola52ndst for more details on how to attend the meeting online.



Una copia de esta ficha informativa se encuentra disponible en epa.gov/superfund/motorola52ndst.