

EPA COMMUNITY INFORMATION GROUP
SUMMARY NOTES FOR OCTOBER 30, 2014 MEETING
MOTOROLA 52ND STREET SUPERFUND

FINAL DOCUMENT

Prepared for:

U.S. Environmental Protection Agency, Region 9

Prepared by:

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**Community Information Group Meeting
Motorola 52nd St. Superfund Site
October 30, 2014
Balsz School District Office, Phoenix, AZ**

Project Team and Regulator Attendees:

Moderator: Marty Rozelle

United States Environmental Protection Agency (EPA): Gerry Hiatt, Carlin Hafiz, Carolyn d'Almeida, Rachel Loftin (via telephone)

EPA Contractor: Sue Kraemer, Doug Hulmes, CB&I Federal Services, LLC (CB&I)

Arizona Department of Environmental Quality (ADEQ): Brian Stonebrink, Wendy Flood, Patrick Shinabery, Karin Harker

Agency for Toxic Substances and Disease Registry (ATSDR): Robert Knowles

Arizona Department of Health Services (ADHS): Jennifer Botsford, Amber Ashbury, Bridget Dufour and Don Herrington

ADEQ Contractor: Dan Solas, URS Corporation

Community Information Group (CIG) Members:

Michael Brewer
Rene Chase-Dufault
Les Holland

Vic Grace
Steve Brittle

Additional attendees:

See Attendee List - Attachment 1

The following acronyms may be used throughout this document:

ADEQ Arizona Department of Environmental Quality
ADHS Arizona Department of Health Services
ATSDR Agency for Toxic Substances Disease Registry
ACR Arizona Cancer Registry
CERCLA Comprehensive Environmental Response, Compensation, Liability Act
CDC Center's for Disease Control and Prevention
CIG Community Information Group
DNAPL Dense Non Aqueous Phase Liquid
EPA United States Environmental Protection Agency, Region 9
RI/FS Remedial Investigation/Feasibility Study
PRC Phoenix Revitalization Corporation
M52 Motorola 52nd Street Superfund Site
ROD Record of Decision
TCE Trichloroethylene
VOC Volatile Organic Compound

Meeting Notes:

On October 30, 2014, a CIG meeting was held at the Balsz School District Offices, located at 4825 E. Roosevelt Street in Phoenix, Arizona. The meeting began at approximately 6:00 p.m. and adjourned at 8:21 p.m. The primary purpose of the meeting was to update the public on the current status and remedial progress at the Motorola 52nd Street Superfund Site (M52), address unanswered questions from the previous CIG meeting, and provide an opportunity for ADHS and the EPA to present additional data and information regarding M52. The meeting also provided a forum for interaction between stakeholders, regulators, and the public.

The meeting notes and the PowerPoint presentations presented at this CIG meeting are posted on EPA's and ADEQ's Motorola project websites:

www.epa.gov/region09/motorola52ndst
http://www.azdeq.gov/environ/waste/sps/Motorola_52nd_Street.html

Ms. Rozelle called the meeting to order and asked the CIG members to introduce themselves, followed by the community members, then the agency members, then the remainder of the attendees.

Ms. Rozelle reviewed the agenda and invited comments on the previous meeting's summary. The CIG expressed concern that the summary may not provide sufficient information to those that did not attend the meeting. However, it was noted that the PowerPoint presentations are placed on the agency websites and emailed to the CIG. The group agreed to include presentation slide numbers in the meeting summary.

A short discussion followed regarding the reformatting of the meeting notes. EPA explained that the meeting notes are intended to be a summary and not minutes or a transcript of the meeting. Moving forward, the meeting documentation will be called summary notes, as opposed to minutes, and references to presentations will be included. A brief overview of information from the "Call to the Public" will be included in the summary notes.

Historical Bedrock and Dense Non-Aqueous Phase Liquids (DNAPL) Investigations – Tom Suriano, Clear Creek Associates

- Began with an outline of the presentation (slide 2).
- Presented September 2013 trichloroethylene (TCE) bedrock concentrations and contours; explained that the majority of the contamination is in the bedrock (slides 3 and 4).
- Explained the character of DNAPL: their properties (specific gravity >1), migrate laterally and vertically quickly, penetrate fine pore spaces, and difficult to find in the subsurface (slides 5 through 8).
- Presented history of DNAPL investigations, both local and industry-wide (slide 9).
- Summarized Operable Unit (OU)1 investigation and chemical recovery (slide 10):
- Explained research on DNAPL injection into a homogenous media and how complex DNAPL behavior is, even in simple lithology (slide 27).
- Presented five previously considered remedial options of the DNAPL source zone (slide 28).
- Provided a summary and the next steps (slides 33 and 34). A study of DNAPL in bedrock is ongoing and will be evaluated as part of the remedial investigation (RI).

- Provided ADHS updates regarding Health Consultations, Environmental Toxicology Program, and M52 Health Consultation.

ADHS Updates – Don Herrington, ADHS

- Discussed limitations and criticisms of cancer registries, such as people moving in and out of the state. The different types of cancers, age, lengths of exposure, types of exposure, etc. Mr. Herrington explained how the Community Health Analysis Areas (CHAAs) work: small number of people, homogenous areas, which may not be useful to the group. He indicated that census tracts would be too small.

Following the update, there were numerous discussions, beginning with the various ways data are collected for health studies. The cancer registry did a review of cancer by zip code, but problematic due the mobility of people and because they did not necessarily work in the zip code where they lived. The Veteran's Administration does not report their data to the cancer registry. ADHS data is also collected based on where individuals live; data such as where an individual worked, etc., is not necessarily collected.

Oncology patient survey studies are expensive and lack adequate funding. Unless public and/or university resources were found to gather appropriate data from hospitals, meaningful data would not be available and funding would need to be secured.

ADHS has conducted health risk assessments since the 1990s at the M52 site. The exposure evaluation first focused on drinking water and then they began looking at vapor intrusion exposure. To prove exposure an epidemiological study would be needed and would require more resources. Potentially, a research oriented hospital could obtain a grant to conduct the work. The Arizona Biomedical Research Division may be able to fund some of these studies.

The cancer registry does not include birth defect data. The data is problematic because of the very small number of people that have birth defects. The small population makes it difficult to assess if from an environmental source, similar to the census tract data.

As the M52 plant is closed down and the information the CIG is requesting is currently not obtainable, further effort is not warranted. The EPA Superfund site's focus is on the plume's impacts to people that live in the area, not those that worked at Motorola ten years ago. It was noted that there are so many data variables that it is difficult to determine why cancer and birth defects occur in certain areas. ADHS indicated socioeconomic factors and others such as nutrition, exercise, and lifestyle factors play a very big role in human health.

The CIG agreed to discontinue the cancer and birth defects studies, largely because they will not provide the information the CIG seeks. Further discussion ensued on available data and other resources. The CIG members may independently seek to submit proposals for studies or grants from the National Institutes of Health or other institutions; for example, the Mayo Clinic and/or Arizona State University.

OU Updates – Patrick Shinabery-OU1, ADEQ; Brian Stonebrink-OU2, ADEQ; Rachel Loftin-OU1, EPA; Carolyn d'Almeida-OU2 & OU3, EPA

- Presented map of the three OUs.
- Installed eight new groundwater monitor wells, two hydrogeological testing wells, and five soil gas monitor wells in OU1.
- Installed an additional residential mitigation system in OU1; total of 15 installed.
- Finalized the site-wide community information plan in April 2014.

- EPA conducted follow-up indoor air monitoring from the February 2014 TAGA investigation in July 2014 (OU1 and OU2).
- Installed six new groundwater monitor wells in OU2.
- Preparation for the remedial investigation of the Nelson Engineering facility by ADEQ.
- Preparation of the feasibility study (FS) by Honeywell.
- Ongoing operation of soil vapor extraction system at Joray/Kachina, which is effectively reducing tetrachloroethylene (PCE) concentrations beneath the facility.
- Presented TCE groundwater plume maps in OU3, which showed TCE reductions.
- Honeywell and Arizona Public Service are working on an OU3-wide RI/FS; draft is expected to come out next spring (slide 2).
- Presented TCE soil gas results in OU3, which shows a potential source in a parking lot in OU3 near SVMW-1. However, as there are no structures, there is not a vapor intrusion risk. EPA indicated that additional work needs to be conducted to identify the source and assess if remediation is required in the area (slide 3).

Ms. Rozelle shared information from the CIG retreat held the previous evening. The CIG meetings will be moving to once a year. The CIG members may conduct activities between meetings, such as providing short presentations to school board meetings, neighborhood association meetings, or other organized meetings. The agencies will work with the CIG to provide material/information.

Ms. Hafiz with EPA will set up a call with the CIG to discuss available technical assistance to replace the Technical Assistance Grant that ended in 2013.

The annual CIG meetings will be timed in conjunction with the release of the annual Effectiveness Reports for OU1 and OU2, which come out in March and April. The 2015 meeting is tentatively scheduled for the second week of May. A CIG conference call each November with site updates is also planned. The CIG will continue to be solicited for input on the annual meeting agenda. The group discussed developing an information package such as a poster board and very brief power point presentation that CIG members may use to engage the neighborhoods about M52.

Beginning 2015, EPA will moderate the CIG meetings.

Call to the public and agencies: Ms. Flood stated the importance of maintaining lines of communications between the CIG members, ADEQ, and EPA, particularly about announcing when neighborhood meetings are scheduled.

CIG business: Currently there are no CIG co-chairs assigned. Mr. Brittle agreed to co-chair; a second co-chair will be determined later. Mr. Brittle agreed to distribute information to CIG members not present for the meeting. As this was the last facilitated meeting with Marty Rozelle, EPA expressed appreciation for Ms. Rozelle's efforts in facilitating the CIG over the past three years.

Adjourned.

ATTACHMENT 1
MEETING ATTENDEE LIST

Date	First	Last	Affiliation
10/30/2014	Amber	Asburry	ADHS
10/30/2014	Jennifer	Botsford	ADHS
10/30/2014	Michael	Brewer	resident
10/30/2014	Steve	Brittle	Don't Waste Arizona
10/30/2014	Rene	Chase-Dufault	resident/co-chair
10/30/2014	Roy	Courtright	ERM
10/30/2014	Bridget	Dufour	ADHS
10/30/2014	Wendy	Flood	ADEQ
10/30/2014	Vic	Grace	Balsz school board/resident
10/30/2014	Carlin	Hafiz	EPA
10/30/2014	Don	Herrington	ADHS
10/30/2014	Gerald	Hiatt	EPA
10/30/2014	Les	Holland	resident
10/30/2014	Doug	Hulmes	CB&I
10/30/2014	Troy	Kennedy	Honeywell
10/30/2014	Robert	Knowles	US Public Health Service, Regional Director
10/30/2014	Sue	Kraemer	CB&I
10/30/2014	Rachel	Loftin	EPA
10/30/2014	Laura	Menkeu	Hargis
10/30/2014	Rob	Mongrain	Arcadis
10/30/2014	Barbara	Murphy	Clear Creek Associates
10/30/2014	Marty	Rozelle	The Rozelle Group, Ltd.
10/30/2014	Richard	Rushforth	TAG advisor
10/30/2014	Gabriel	Sandler	ASU
10/30/2014	Patrick	Shinabery	ADEQ
10/30/2014	Dan	Solas	URS
10/30/2014	Brian	Stonebrink	ADEQ
10/30/2014	Tom	Suriano	Freescale consultant
10/30/2014	Jerry D.	Worsham II	resident/attorney