Department of Toxic Substances Control

Matthew Rodriquez
Secretary for
Environmental Protection

Barbara A. Lee, Director
5796 Corporate Avenue
Cypress, California 90630

Edmund G. Brown Jr.
Governor

November 28, 2017

Resident
9595 Manitoba Place
Riverside, California 92503

SUBJECT: RESULTS OF SOIL SAMPLING AT 9595 MANITOBA PLACE

Dear Owner/Resident:

Thank you for participating in the California Department of Toxic Substances Control (DTSC) sampling program for the neighborhood surrounding the Riverside Agricultural Park site, Riverside, California. With your permission, DTSC collected soil samples at your property, and analyzed them in our laboratory.
The sampling results at your property found that two (2) of the four (4) samples collected at your property had no detection of Polychlorinated biphenyls (PCBs), or PCBs were below health protective screening levels for residential use. In two (2) other samples PCBs were detected above the screening level. The United States Environmental Protection Agency analyzed a split sample of one of the samples taken at your property and the results showed that it was health protective. While the levels detected do not pose an immediate health risk, as a precautionary measure, DTSC intends to conduct additional soil sampling at your property to further evaluate potential risks at your property.

Thank you again for your participation in the neighborhood sampling conducted by DTSC. Should you have any questions, please contact me at (714) 484-5459 or by email at [HYPERLINK "mailto:Peter.Garcia@dtsc.ca.gov"], or Mr. Amit Pathak, Senior Hazardous Substances Engineer and Project Manager at (714) 484-5468 or by email at [HYPERLINK "mailto:Amit.Pathak@dtsc.ca.gov"].

Sincerely,

Peter A. Garcia
Branch Chief
Brownfields Restoration and School Evaluation Branch
Brownfields & Environmental Restoration Program
Department of Toxic Substances Control

Enclosure: Soil Sampling Report

DRAFT

SOIL SAMPLING REPORT
9595 MANITOBA PLACE
NOVEMBER 28, 2017

Introduction:

In response to community concerns, DTSC conducted soil sampling in the neighborhood near Ag Park. DTSC shared a Draft Sampling Plan with the community and released it for a 30-day public comment period. After consideration of all comments, DTSC finalized the sampling plan and began the neighborhood soil sampling in mid-summer 2017. The purpose of the sampling was to collect soil data to determine if chemicals known as Polychlorinated Biphenyls (PCBs) may have migrated to the neighborhood from the Ag Park via windblown dust, and if so, if they present a potential health risk.

DTSC sampled 27 properties, including two properties owned by the City of Riverside (Rutland Park and a right-of-way bordering Ag Park on the west), where public has access to. DTSC prepared a report for each property where sampling was conducted. DTSC has shared the sampling results with the City of Riverside (for City's properties) and with each resident (for their own property) whose property was sampled. DTSC and United States Environmental Protection Agency (US EPA) have determined that neighborhood sampling results demonstrated that conditions are health protective for residents of the properties adjacent to Ag Park that participated in the neighborhood sampling program. This report presents the findings of DTSC's soil investigation on your property.

Why did DTSC Sample my Yard?

At DTSC's request, CARB conducted a scientific study (Air Dispersion Modeling) to predict where PCBs may be found in the neighborhood if they were windblown from the Ag Park site in the form of dust. Based on the results of the CARB air dispersion model analysis and additional input from the Ag Park Neighborhood Work Group, California Department of Public Health, CARB, and the City, DTSC selected your property and another two dozen residential properties and two additional properties owned by the City of Riverside adjacent to Ag Park for sampling. Your property was identified as one which may have a higher likelihood of dust from the Ag Park.

What are PCBs?

PCBs belong to a broad family (Aroclors) of man-made organic chemicals known as chlorinated hydrocarbons. PCBs were domestically manufactured from 1929 until manufacturing was banned in 1979. PCBs vary in consistency from thin, light-colored liquids to yellow or black waxy solids. Due to their chemical properties, PCBs were commonly used in hundreds of industrial and commercial applications.

PCBs can cause short-term and long-term health effects. For more information about PCBs including health effects, please go to [HYPERLINK

"https://www.epa.gov/pcbs/learn-about-polychlorinated-biphenyls-pcbs#healtheffects"].

How Were Soil Samples Collected and Analyzed?

Soil samples were collected on your property within six (6) inches of the ground surface to evaluate dust deposits. Single use, individually wrapped and sealed scoops were used to collect the samples that were then transferred to laboratory certified glass containers. In some cases, deeper soil samples (up to 2.5 feet below ground surface) were obtained using a manual hand-auger to bore down to the desired depth.

All samples were analyzed for PCBs (various family compounds of PCBs or Aroclors) by DTSC's Environmental Chemistry Laboratory (ECL) using US EPA approved analytical methods. US EPA also took some split samples and analyzed them independent of DTSC's ECL laboratory.

What Were the Results from the Laboratory and what do they Mean?

The sampling results at your property found that two (2) of the four (4) samples collected at your property had no detection of Polychlorinated biphenyls (PCBs), or PCBs were below health protective screening levels for residential use. In two (2) other samples PCBs were detected above the screening level. The United States Environmental Protection Agency analyzed a split sample of one of the samples taken at your property and the results showed that it was health protective. While the levels detected do not pose an immediate health risk, as a precautionary measure, DTSC intends to conduct additional soil sampling at your property to further evaluate potential risks at your property.

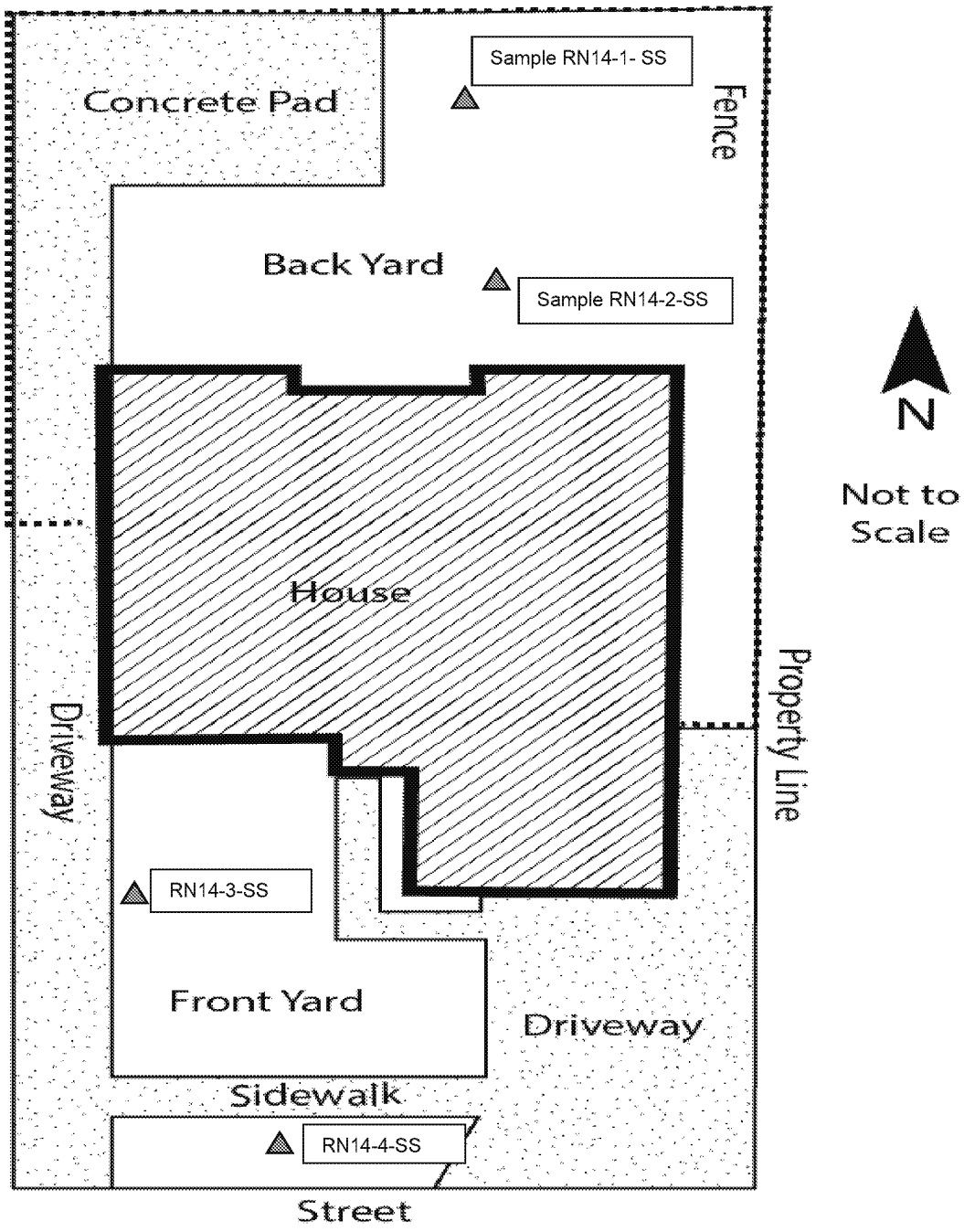
What Happens Next?

DTSC will meet with you to discuss the results, answer any questions you may have, and to provide a point of contact as we continue our investigation. Arrangements will also be made to collect additional soil samples to characterize the extent of any PCBs above the soil screening level. An updated Soil Sampling Report will be generated for your property after the additional data is collected and evaluated. Results from your property and others will be compiled in a comprehensive Neighborhood Sampling Report to be shared publicly. Care will be exercised in the report so as not to disclose individual property addresses or ownership information.

Who Can I Call for More Information?

Should you have any questions or concerns, please contact Amit Pathak, DTSC Project Manager at (714) 484-5468.

Property Sampling Location Map



[SHAPE * MERGEFORMAT] Soil Sampling Location

Table 1 - Sampling Results:

Sampling ID	Sampling Results (Total PCBs)	Is the Result Above the Preliminary Screening Level of 0.22 mg/kg? Yes/No
RN14-1-SS	1.29 mg/kg	Yes
RN14-2-SS	2.14 mg/kg	Yes
RN14-3-SS	0.091 mg/kg	No
RN14-4-SS	Not Detected	No
RN14-5-SSEPA	0.18 mg/kg	No

NOTE: THE LABORATORY RESULTS ON THE LABORATORY REPORT (SEE NEXT PAGES) ARE PRESENTED IN DIFFERENT UNITS OF MEASUREMENT THAN TABLE 1. LABORATORY RESULTS REPORTED IN ug/kg WERE CONVERTED TO mg/kg BY DIVIDING BY 1000. THIS WAS NECESSARY TO BE CONSISTENT WITH THE UNITS IDENTIFIED IN THE NEIGHBORHOOD SAMPLING PLAN DOCUMENT.

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
700 Heinz Avenue, Suite 100, Berkeley, CA 94710
Telephone: (510) 540-2122

ANALYTICAL LABORATORY REPORT - POLYCHLORINATED BIPHENYLS (PCBs) (SOLIDS)

Authorization No.: 16EC0233 Sample Location: Riverside Neighborhood Evaluation

Requestor Sample ID: RN14-1-SS
ECL Sample ID: BB00054
Sample Matrix: Soil

Preparation Method: EPA 3540C
Analysis Method: EPA 8082A

Sample Result

Analyte	CAS #	Result	Qualifier Flags	Units	DF	QL	Prepared	Analysis Date	TTLC Limit
Aroclor 1016	12674-11-2	ND		µg/kg	2.00	102	07/24/17	08/03/17	50000
Aroclor 1221	11104-28-2	ND		µg/kg	2.00	102	07/24/17	08/03/17	50000
Aroclor 1232	11141-16-5	ND		µg/kg	2.00	102	07/24/17	08/03/17	50000
Aroclor 1242	53469-21-9	ND		µg/kg	2.00	102	07/24/17	08/03/17	50000
Aroclor 1248	12672-29-6	1290		µg/kg	2.00	102	07/24/17	08/03/17	50000
Aroclor 1254	11097-69-1	ND		µg/kg	2.00	102	07/24/17	08/03/17	50000
Aroclor 1260	11096-82-5	ND		µg/kg	2.00	102	07/24/17	08/03/17	50000
Aroclor 1262	37324-23-5	ND		µg/kg	2.00	102	07/24/17	08/03/17	50000
Aroclor 1268	11100-14-4	ND		µg/kg	2.00	102	07/24/17	08/03/17	50000
Surrogate Compound(s):									
Decachlorobiphenyl	*2051-24-3*	*107*		%	2.00	*Limits: 70-130*	07/24/17	08/03/17	

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ANALYTICAL LABORATORY REPORT - POLYCHLORINATED BIPHENYLS (PCBs) (SOLIDS)

Authorization No.: 16EC0233 Sample Location: Riverside Neighborhood Evaluation

Requestor Sample ID: RN14-2-SS
ECL Sample ID: BB00055
Sample Matrix: Soil

Preparation Method: EPA 3540C
Analysis Method: EPA 8082A

Sample Result

Analyte	CAS #	Result	Qualifier Flags	Units	DF	QL	Prepared	Analysis Date	TTLC Limit
Aroclor 1016	12674-11-2	ND		µg/kg	4.00	207	07/24/17	08/03/17	50000
Aroclor 1221	11104-28-2	ND		µg/kg	4.00	207	07/24/17	08/03/17	50000
Aroclor 1232	11141-16-5	ND		µg/kg	4.00	207	07/24/17	08/03/17	50000
Aroclor 1242	53469-21-9	ND		µg/kg	4.00	207	07/24/17	08/03/17	50000
Aroclor 1248	12672-29-6	2140		µg/kg	4.00	207	07/24/17	08/03/17	50000
Aroclor 1254	11097-69-1	ND		µg/kg	4.00	207	07/24/17	08/03/17	50000
Aroclor 1260	11096-82-5	ND		µg/kg	4.00	207	07/24/17	08/03/17	50000
Aroclor 1262	37324-23-5	ND		µg/kg	4.00	207	07/24/17	08/03/17	50000
Aroclor 1268	11100-14-4	ND		µg/kg	4.00	207	07/24/17	08/03/17	50000
Surrogate Compound(s):									
Decachlorobiphenyl	*2051-24-3*	*123*		%	4.00	*Limits: 70-130*	07/24/17	08/03/17	

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Environmental Chemistry Laboratory
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ANALYTICAL LABORATORY REPORT - POLYCHLORINATED BIPHENYLS (PCBs) (SOLIDS)

Authorization No.: 16EC0233 Sample Location: Riverside Neighborhood Evaluation

Requestor Sample ID: RN14-3-SS
ECL Sample ID: BB00056
Sample Matrix: Soil

Preparation Method: EPA 3540C
Analysis Method: EPA 8082A

Sample Result

Analyte	CAS #	Result	Qualifier Flags	Units	DF	QL	Prepared	Analysis Date	TTLC Limit
Aroclor 1016	12674-11-2	ND		µg/kg	1.00	51.4	07/24/17	08/16/17	50000
Aroclor 1221	11104-28-2	ND		µg/kg	1.00	51.4	07/24/17	08/16/17	50000
Aroclor 1232	11141-16-5	ND		µg/kg	1.00	51.4	07/24/17	08/16/17	50000
Aroclor 1242	53469-21-9	ND		µg/kg	1.00	51.4	07/24/17	08/16/17	50000
Aroclor 1248	12672-29-6	90.5		µg/kg	1.00	51.4	07/24/17	08/16/17	50000
Aroclor 1254	11097-69-1	ND		µg/kg	1.00	51.4	07/24/17	08/16/17	50000
Aroclor 1260	11096-82-5	ND		µg/kg	1.00	51.4	07/24/17	08/16/17	50000
Aroclor 1262	37324-23-5	ND		µg/kg	1.00	51.4	07/24/17	08/16/17	50000
Aroclor 1268	11100-14-4	ND		µg/kg	1.00	51.4	07/24/17	08/16/17	50000
Surrogate Compound(s):									
Decachlorobiphenyl	*2051-24-3*	*80*		%	1.00	*Limits: 70–130*	07/24/17	08/16/17	

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California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
700 Heinz Avenue, Suite 100, Berkeley, CA 94710
Telephone: (510) 540-2122

ANALYTICAL LABORATORY REPORT - POLYCHLORINATED BIPHENYLS (PCBs) (SOLIDS)

Authorization No.: 16EC0233 Sample Location: Riverside Neighborhood Evaluation

Requestor Sample ID: RN14-4-SS
ECL Sample ID: BB00057
Sample Matrix: Soil

Preparation Method: EPA 3540C
Analysis Method: EPA 8082A

Sample Result

Analyte	CAS #	Result	Qualifier Flags	Units	DF	QL	Prepared	Analysis Date	TTLC Limit
Aroclor 1016	12674-11-2	ND		µg/kg	1.00	50.9	07/24/17	08/01/17	50000
Aroclor 1221	11104-28-2	ND		µg/kg	1.00	50.9	07/24/17	08/01/17	50000
Aroclor 1232	11141-16-5	ND		µg/kg	1.00	50.9	07/24/17	08/01/17	50000
Aroclor 1242	53469-21-9	ND		µg/kg	1.00	50.9	07/24/17	08/01/17	50000
Aroclor 1248	12672-29-6	ND		µg/kg	1.00	50.9	07/24/17	08/01/17	50000
Aroclor 1254	11097-69-1	ND		µg/kg	1.00	50.9	07/24/17	08/01/17	50000
Aroclor 1260	11096-82-5	ND		µg/kg	1.00	50.9	07/24/17	08/01/17	50000
Aroclor 1262	37324-23-5	ND		µg/kg	1.00	50.9	07/24/17	08/01/17	50000
Aroclor 1268	11100-14-4	ND		µg/kg	1.00	50.9	07/24/17	08/01/17	50000
Surrogate Compound(s):									
Decachlorobiphenyl	*2051-24-3*	*74*		%	1.00	*Limits: 70–130*	07/24/17	08/01/17	

United States Environmental Protection Agency
Region 9 Laboratory
1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager:	Sara Ziff	Land Division, Corrective Action Section	SDG: 17194A
Project Number:	R17R01	75 Hawthorne Street	Reported: 08/03/17 14:37
Project:	Riverside Agricultural Park FY2017 Sampling	San Francisco CA, 94105	

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 1707020-01									Soil - Sampled: 07/06/17 13:38
Sample ID: RN17-5-SSEPA									Polychlorinated Biphenyls by EPA Method 8082A
Aroclor 1016		ND	U	15	ug/kg dry	B170664	07/17/17	07/24/17	8082A
Aroclor 1221		ND	U	32	"	"	"	"	8082A
Aroclor 1232		ND	U	15	"	"	"	"	8082A
Aroclor 1242		ND	U	15	"	"	"	"	8082A
Aroclor 1248		ND	U	15	"	"	"	"	8082A
Aroclor 1254		ND	U	15	"	"	"	"	8082A
Aroclor 1260		9.5	C1, J	15	"	"	"	"	8082A
Aroclor 1262		ND	U	15	"	"	"	"	8082A
Aroclor 1268		ND	U	15	"	"	"	"	8082A
Surrogate: Tetrachloro-m-xylene			75 %	20-140%		"	"	"	
Surrogate: Decachlorobiphenyl			63 %	20-125%		"	"	"	
Sample ID: RN17-5-SSEPA									Conventional Chemistry Parameters by APHA/EPA Methods
% Solids		84		1	%	B170104	07/25/17	07/26/17	3550C
Lab ID: 1707020-02									Soil - Sampled: 07/07/17 09:05
Sample ID: RN14-5-SSEPA									Polychlorinated Biphenyls by EPA Method 8082A
Aroclor 1016		ND	U	13	ug/kg dry	B170664	07/17/17	07/24/17	8082A
Aroclor 1221		ND	U	28	"	"	"	"	8082A
Aroclor 1232		ND	U	13	"	"	"	"	8082A
Aroclor 1242		ND	U	13	"	"	"	"	8082A
Aroclor 1248		ND	U	13	"	"	"	"	8082A
Aroclor 1254		ND	U	13	"	"	"	"	8082A
Aroclor-1260		180		13	"	"	"	"	8082A
Aroclor 1262		ND	U	13	"	"	"	"	8082A
Aroclor 1268		ND	U	13	"	"	"	"	8082A
Surrogate: Tetrachloro-m-xylene			76 %	20-140%		"	"	"	
Surrogate: Decachlorobiphenyl			67 %	20-125%		"	"	"	
Sample ID: RN14-5-SSEPA									Conventional Chemistry Parameters by APHA/EPA Methods
% Solids		92		1	%	B170104	07/25/17	07/26/17	3550C
Lab ID: 1707020-03									Soil - Sampled: 07/10/17 13:04
Sample ID: RN19-5-SSEPA									Polychlorinated Biphenyls by EPA Method 8082A
Aroclor 1016		ND	U	14	ug/kg dry	B170664	07/17/17	07/24/17	8082A
Aroclor 1221		ND	U	29	"	"	"	"	8082A
Aroclor 1232		ND	U	14	"	"	"	"	8082A
Aroclor 1242		ND	U	14	"	"	"	"	8082A
Aroclor 1248		ND	U	14	"	"	"	"	8082A
Aroclor 1254		ND	U	14	"	"	"	"	8082A
Aroclor 1260		8.3	C1, J	14	"	"	"	"	8082A