

## Appendix H – Phase II Environmental Site Assessment

October 15, 2018

Mike Campbell  
Project Manager  
David J. Powers & Associates, Inc.  
Sent via email: [MCampbell@davidjpowers.com](mailto:MCampbell@davidjpowers.com)  
1111 Broadway, Suite 1510  
Oakland, CA, 94607  
Phone: (510) 458-3041

**Subject: Limited Phase II Environmental Site Assessment**

Roseland Creek Community Park  
Santa Rosa, California  
ATC Project No. 1141800009

Dear Mr. Campbell:

ATC Group Services LLC (ATC) has prepared this *Limited Phase II Environmental Site Assessment* (Phase II ESA) report for the Roseland Creek Community Park development in Santa Rosa, California to present the results of our Phase II ESA performed in May and June of 2018.

**1.0 BACKGROUND**

The site is bound by Burbank Avenue to the west, McMinn Avenue and residential houses to the east, residential houses to the north and a ranch to the south. The property is rectangular in shape consisting of the Roseland Creek Community Park property with two parcels, 10.97 acres in the north and 5.96 acres in the south, with a 2.61 acre private property (1372 Burbank Avenue from west to east) separating the two parcels (**Figure 1**).

The Phase II ESA was performed in support of a CEQA Initial Study for the proposed development. The Phase II ESA scope was originally designed to address the following potential environmental conditions identified at the site:

1. A refuse dump on the northwest side of Roseland Creek where household debris and automotive parts were observed, as reported in a Phase I ESA prepared by ECON in 2010. ECON concluded this presents a material threat of a potential release of hazardous substances or petroleum products,
2. Historic agricultural use, including orchards, may have resulted in contamination of shallow soil with pesticides and arsenic, in ATC's opinion, and
3. Use of lead paint on older structures at the site may have resulted in the contamination of soil with lead.

Note that due excessive vegetation overgrowth at the site, fourteen of the originally proposed samples locations were not accessible and were not sampled, including proposed samples in the refuse dump area cited in Item 1 above. Sample locations are shown on **Figure 2**.

## **2.0 SITE INVESTIGATION SCOPE**

ATC collected shallow soil samples at 30 locations, from a depth of 0.5 to 1 foot below ground surface (bgs). Forty-two (42) locations were originally proposed, however, due to vegetation overgrowth, fourteen locations were inaccessible. Additional details regarding the completed scope of work are described below.

### **2.1 Site Health and Safety Plan**

As required by the Occupational Safety and Health Administration (OSHA) Standard “Hazardous Waste Operations and Emergency Response” guidelines (29 CFR 1910.120), and by California Occupational Safety and Health Administration (Cal-OSHA) “Hazardous Waste Operations and Emergency Response” guidelines (CCR Title 8, Section 5192), ATC prepared Site-Specific Health and Safety Plan (HASP) prior to the commencement of fieldwork. The Site-Specific HASP was reviewed and signed by field staff before beginning field operations at the site.

### **2.2 Subsurface Utility Clearance**

Prior to field activities, ATC marked the proposed boring locations in accordance with the Underground Service Alert (USA) guidelines, and notified USA of subsurface activities so existing underground utilities in the area of the proposed borings could be located and avoided.

### **2.3 Exploratory Soil Borings**

Between May 30, 2018 and June 1, 2018, ATC advanced thirty (30) shallow soil borings at the site (S-1 through S-12, S-25 through S-30, and S-33 through S-44). Each boring was advanced to a total depth of 1 foot bgs, using a hand trowel, in order to collect shallow surficial soil samples. **Figure 2** depicts the soil boring locations.

Soil samples were collected from each boring at a depth of 0.5 to 1 foot bgs. Samples were collected using a hand trowel and contained in clean laboratory supplied glass jars. Once retrieved, soil samples were labeled, placed in a cooler with ice, and chilled to approximately 4° C pending transport to the analytical laboratory. Each location was then backfilled with surrounding soil and spoils.

Field notes are provided in **Attachment A**.

### **2.5 Waste Disposal**

No investigation derived waste (IDW) was generated during the activities.

## **3.0 LABORATORY ANALYSES AND RESULTS**

The collected soil samples were submitted to BC Laboratories, Inc. of Bakersfield, California, a state-certified laboratory under standard chain-of-custody protocol. The soil samples were analyzed for the following analytes:

- Organochloride pesticides by EPA Method 8081A, and
- Lead and Arsenic by EPA Methods 6010B.

### 3.1 Laboratory Analytical Results

Provided below is a summary of the reported laboratory analytical results of the 30 soil samples collected during the investigation.

#### Organochloride Pesticides

- Chlordane was detected above the respective reporting limit in one sample at a concentration of 0.061 mg/kg in samples S-6.
- 4,4'-DDD was detected above the respective reporting limits in 17 of the samples at concentrations ranging from 0.00075 mg/kg in sample S-3 to 0.020 mg/kg in sample S-43.
- 4,4'-DDE was detected above the respective reporting limits in 19 of the samples at concentrations ranging from 0.00054 mg/kg in sample S-29 to 0.021 mg/kg in samples S-27 and S-28.
- 4,4'-DDT was detected above the respective reporting limits in 22 of the samples at concentrations ranging from 0.00074 mg/kg in sample S-35 to 0.048 mg/kg in samples S-43.
- Dieldrin was detected above the respective reporting limits in four of the samples at concentrations ranging from 0.00058 mg/kg in sample S-33 to 0.013 mg/kg in samples S-44.

#### Lead and Arsenic

- Lead was detected above the respective reporting limits in all 6 soil samples analyzed (S-6, S-25 through S-27, S-43, and S-44) at concentrations ranging from 29 mg/kg in sample S-43 to 120 mg/kg in sample S-26.
- Arsenic was detected above the respective reporting limits in all 30 soil samples at concentrations ranging from 2.7 mg/kg in sample S-28 to 5.5 mg/kg in sample S-6.

Laboratory analytical data for detected constituents are summarized on **Table 1**. Laboratory analytical reports are provided in **Attachment B**.

### 3.2 Comparison to Applicable Screening Levels

For the purpose of this investigation, ATC compared laboratory analytical data to the following applicable health-based screening levels.

#### Health-Based Screening Levels

- San Francisco Bay- Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESL), February 2016 (Rev. 3), Table S-1, Direct Exposure Human Health Risk Levels; Residential, Shallow Soil Exposure.

The respective ESLs for detected constituents are presented on **Table 1**. A summary comparison of the laboratory analytical results to the applicable health-based screening levels is provided below:

- Organochloride pesticides – Detected organochloride pesticides were not reported in any soil samples at concentrations in excess of the respective ESLs.

- Lead and Arsenic - Lead was detected at concentrations above the ESL of 80 mg/kg in 2 of 6 samples at concentrations of 120 mg/kg in S-26 and 110 mg/kg in S-44. Arsenic was detected above the ESL of 0.067 mg/kg in all 30 samples analyzed at concentrations ranging from 2.7 mg/kg in sample S-28 to 5.5 mg/kg in sample S-6.

## **5.0 CONCLUSIONS AND RECOMMENDATIONS**

The site characterization activities performed by ATC included completing 30 soil borings (S-1 through S-12, S-25 through S-30, and S-33 through S-44) to depths of approximately 1 foot bgs. Soil samples were collected from each boring from a depth of 0.5 to 1 foot bgs. Samples were analyzed for organochloride pesticides, lead, and arsenic.

Due to access issues related to vegetation overgrowth and a vagrant encampment, ATC was unable to collect samples from approximate 30 percent of the proposed locations from the former orchard areas, ten of the 42 proposed locations. In ATC's opinion, the samples collected from former orchard areas are likely representative of the unsampled orchard areas. Based on the absence of ESL exceedances for pesticides, we do not recommend pursuing further sample collection in the unsampled orchard areas. Additionally, although all 30 samples exceeded the arsenic ESL, it is well documented concentrations of this magnitude are within typical arsenic background concentrations for Northern California. Therefore, no additional action is recommended with respect to arsenic concentrations.

Reported concentrations of lead exceeding the ESL were detected in samples collected adjacent to existing structures at the site. These elevated lead concentrations are most likely the result of lead-based paint debris fallen from these structures. We suspect the elevated lead concentrations are confined to the top one foot of soil in the vicinity of the structures. ATC recommends a lead-based paint survey be performed on these structures prior to demolition. Additionally, this impacted soil should be mitigated by excavation (scraping) and proper disposal, or by capping with clean fill material. No additional soil sampling is recommended at this time.

Finally, ATC was unable to access the area of a refuse dump on the northwest side of Roseland Creek (near proposed sample locations S-31 and S-32) where household debris and automotive parts were observed, as reported in a Phase I ESA prepared by ECON in 2010. ECON concluded this debris presents a material threat of a potential release of hazardous substances or petroleum products. ATC recommends this area be sampled in the future once it is accessible.

## 6.0 CLOSING

If you have any questions please contact Mr. Gabe Stivala at (925) 223-7123.

Sincerely,  
**ATC Group Services LLC**



Gabriel V. Stivala, P.G.  
*Senior Geologist*  
Direct Line +1 925 223 7123  
Email: [gabe.stivala@atcgs.com](mailto:gabe.stivala@atcgs.com)



Sara E. Bostick  
*Sr. Project Manager*  
Direct Line + 1 707 291 0425  
Email: [sara.bostick@atcgs.com](mailto:sara.bostick@atcgs.com)

### Attachments:

Figure 1      Site Vicinity  
Figure 2      Site Plan with Boring Locations  
  
Table 1      Soil Analytical Results  
  
Attachment A   Field Notes  
Attachment B   Laboratory Analytical Report

## Figures

122.75000° W

122.73333° W

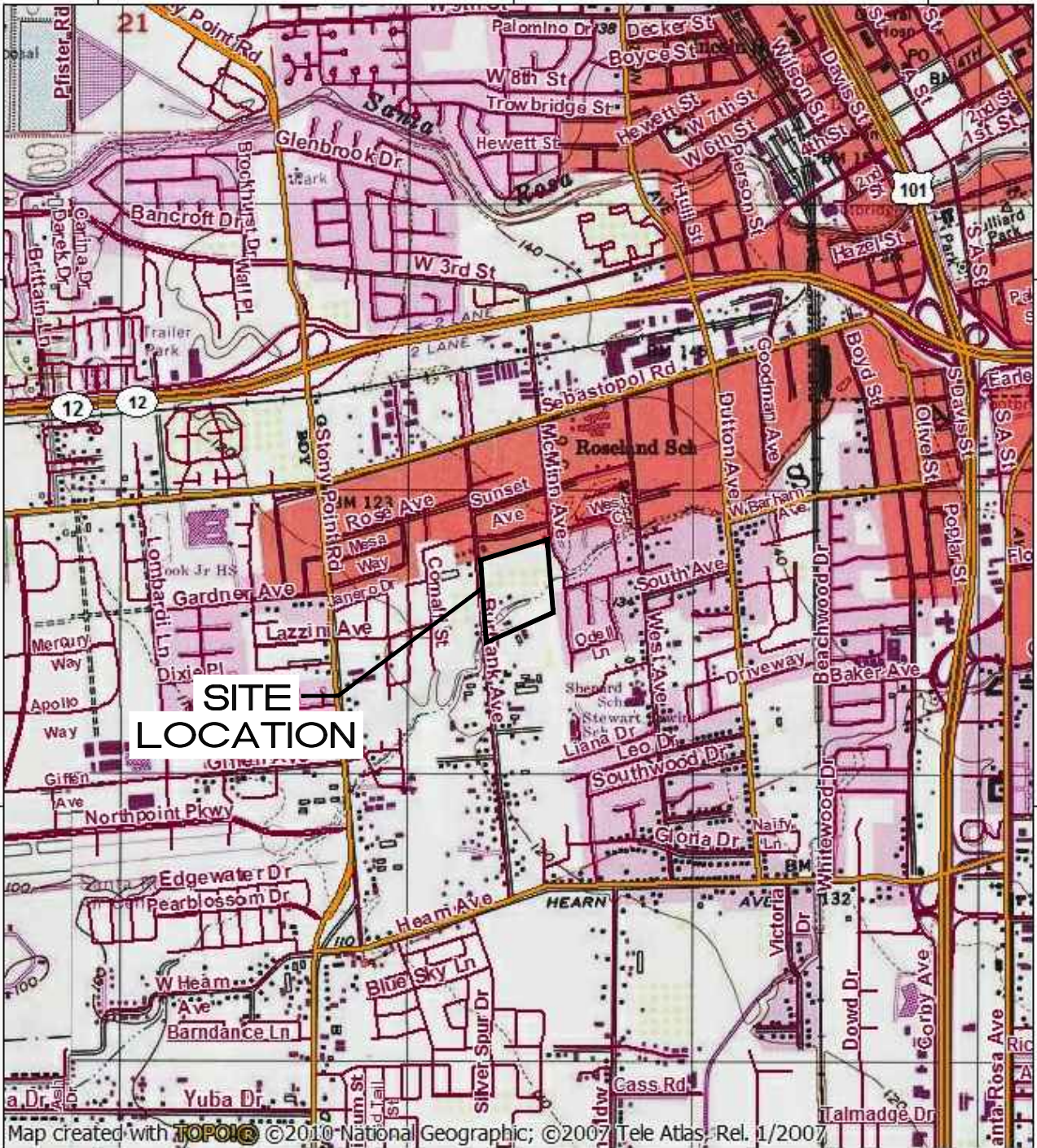
WGS84 122.71667° W

38.43333° N

38.43333° N

38.41667° N

38.41667° N

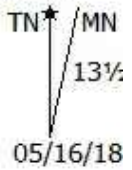
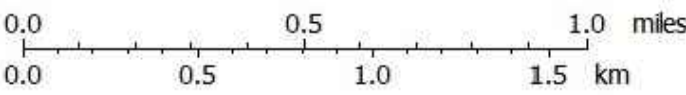


Map created with TOPOIG ©2010 National Geographic; ©2007 Tele Atlas; Rel. 1/2007

122.75000° W

122.73333° W

WGS84 122.71667° W



SOURCE: NG USGS TOPO MAP, SANTA ROSA, CA QUAD, 1998

### SITE LOCATION MAP

ROSELAND CREEK COMMUNITY PARK PROPERTY  
SANTA ROSA, CA

PROJECT NUMBER: 114180009	DATE: 5/16/18	FIGURE
APPROVED BY: GS	DRAWN BY: BK	1



915 Highland Point Dr., Ste. 250  
Roseville, California 95678

Ph: (916) 924-5247 \*\*\* Fax: (916) 724-5201





**LEGEND**

- SOIL BORING THAT WAS SAMPLED
- SOIL BORING NOT SAMPLED DUE TO SAFETY HAZARD



NOTE: SCALE AND LOCATIONS ARE APPROXIMATE

Proposed soil sample locations inaccessible due to excessive vegetation overgrowth.

Soil sample location

PROJECT NUMBER: 1141800009	DATE: 7/10/18	FIGURE
APPROVED BY: GS	DRAWN BY: BK	2

**ATC**  
 915 Highland Point Dr., Ste. 250  
 Roseville, California 95678  
 Ph: (916) 924-5247 \*\*\* Fax: (916) 724-5201

**SAMPLING LOCATION MAP**

ROSELAND CREEK COMMUNITY PARK PROPERTY  
SANTA ROSA, CA

## Table

**TABLE 1**  
**Soil Analytical Results**  
**Roseland Creek Community Park**  
**1372 Burbank Ave., Santa Rosa, CA**

Sample ID	Depth (feet bgs)	Sample Date	Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Lead	Arsenic
			EPA Method 8081						EPA Method 6010B
			All concentrations in mg/kg						
<i>ESL Residential Shallow Soil:</i>			<b>0.48</b>	<b>2.7</b>	<b>1.9</b>	<b>1.9</b>	<b>0.038</b>	<b>80</b>	<b>0.067</b>
S-1	0.5-1	6/1/2018	<0.96	<0.0096	<0.0096	<0.0096	<0.0096	--	<b>3.2</b>
S-2	0.5-1	6/1/2018	<0.050	0.0015	0.0069	0.0066	<0.00050	--	<b>3.3</b>
S-3	0.5-1	6/1/2018	<0.050	0.00075	0.0028	0.0025	<0.00050	--	<b>3.3</b>
S-4	0.5-1	6/1/2018	<0.050	0.00077	0.0023	0.0022	<0.00050	--	<b>4.1</b>
S-5	0.5-1	6/1/2018	<0.050	0.0039	0.015	0.013	<0.00050	--	<b>4.2</b>
S-6	0.5-1	5/30/2018	0.061	0.0038	0.0098	0.0062	<0.00050	44	<b>5.5</b>
S-7	0.5-1	6/1/2018	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	--	<b>3.4</b>
S-8	0.5-1	6/1/2018	<0.050	0.0019	0.0078	0.0076	<0.00050	--	<b>4.8</b>
S-9	0.5-1	6/1/2018	<0.050	0.0028	0.014	0.010	0.00078	--	<b>3.7</b>
S-10	0.5-1	6/1/2018	<0.050	0.0031	0.012	0.010	<0.00050	--	<b>4.4</b>
S-11	0.5-1	6/1/2018	<0.050	0.0033	0.011	0.011	<0.00050	--	<b>3.9</b>
S-12	0.5-1	6/1/2018	<0.050	<0.0050	<0.0050	0.0058	<0.0050	--	<b>4.2</b>
S-25	0.5-1	5/30/2018	<0.050	0.0056	0.0063	0.011	<0.0050	34	<b>3.7</b>
S-26	0.5-1	5/30/2018	<0.98	0.016	0.02	0.047	<0.0098	<b>120</b>	<b>3.5</b>
S-27	0.5-1	5/31/2018	<0.50	0.0099	0.021	0.025	<0.0050	36	<b>3.3</b>
S-28	0.5-1	5/31/2018	<0.25	0.011	0.021	0.014	0.0032	--	<b>2.7</b>
S-29	0.5-1	5/31/2018	<0.050	<0.00050	0.00054	0.00094	<0.00050	--	<b>2.9</b>
S-30	0.5-1	5/31/2018	<0.25	0.0058	0.0054	0.017	<0.0025	--	<b>3.2</b>
S-33	0.5-1	5/31/2018	<0.050	0.00093	0.00057	0.0053	0.00058	--	<b>2.8</b>
S-34	0.5-1	5/31/2018	<0.050	<0.00050	<0.00050	0.00075	<0.00050	--	<b>2.7</b>
S-35	0.5-1	5/31/2018	<0.050	<0.00050	<0.00050	0.00074	<0.00050	--	<b>4.1</b>
S-36	0.5-1	5/31/2018	<0.050	<0.00050	0.00071	0.0013	<0.00050	--	<b>5.2</b>
S-37	0.5-1	5/31/2018	<0.050	<0.00050	<0.00050	<0.00050	<0.00050	--	<b>2.6</b>
S-38	0.5-1	5/31/2018	<0.050	<0.00050	<0.00050	<0.00050	<0.00050	--	<b>3.2</b>
S-39	0.5-1	5/31/2018	<0.050	<0.00050	<0.00050	<0.00050	<0.00050	--	<b>4.0</b>
S-40	0.5-1	5/31/2018	<0.050	<0.00050	<0.00050	<0.00050	<0.00050	--	<b>3.0</b>
S-41	0.5-1	5/31/2018	<0.050	<0.00050	<0.00050	<0.00050	<0.00050	--	<b>3.2</b>
S-42	0.5-1	5/31/2018	<0.050	<0.00050	<0.00050	<0.00050	<0.00050	--	<b>3.8</b>
S-43	0.5-1	5/30/2018	<0.050	0.020	0.018	0.048	0.0065	29	<b>4.1</b>
S-44	0.5-1	5/30/2018	<0.050	0.011	0.004	0.023	0.013	<b>110</b>	<b>3</b>

**NOTES:**

- bgs Below ground surface
- mg/kg Milligrams per kilogram
- EPA Environmental Protection Agency
- 4,4'-DDD Dichlorodiphenyldichloroethane
- 4,4'-DDE Dichlorodiphenyldichloroethene
- 4,4'-DDT Dichlorodiphenyltrichloroethane
- <0.050 Constituent not detected above specific laboratory reporting limit.
- Not analyzed
- ESL Residential Shallow Soil Environmental Screening Level for Tier 1/SWRCB Region 2 ESL Tables February 2016 (Rev. 3); Table S-1 Direct Exposure Human Health Risk Levels; Res: Shallow Soil Exposure
- BOLD** Reported value exceeds ESL

## **Attachment A**

### **Field Notes**

# ATC Group Services LLC

1117 Lone Palm Ave., Suite 201B  
Modesto, California 95351  
(209) 579-2221 Phone  
(209) 579-2225 Fax

## Service Request Form

Surface Soil Sampling

Date of SRF 5/29/2018

### Site Information

Site Name: Roseland Creek Community Park Property Project No. 1141800009 Task No. 54001

Contact: Gabe Stivala Phone No. (925) 223-7123 Labor Code No. 09012

### Scope of Work

1. Conduct tailgate H&S meeting. Site is a vacant lot with private property at 1372 Burbank Ave. in the middle.
2. Contact potential stakeholders and discuss scope, obtain contact info for future work
3. Sample soil points S-1 through S-42.
4. Take handheld GPS and minimum of six cones. Identify GPS location of each row using cones. Document with photos.
5. Obtain surface soil samples from depth of six inches (6") to one foot (1 ft.) on all samples, except Refuse area. Refuse samples are to be from one and a half feet (1.5 ft.) to two feet (2 ft.) in depth.
6. Backfill sample location with residual soil.
7. Samples to be transported to BC Laboratories under chain of custody protocol
8. All samples to be analyzed for organochlorine pesticides by EPA 8081A. Include arsenic by 6010B in past agricultural areas; lead by 6010B in past lead paint storage areas; and Refuse area includes CAM 17 Metals by 6010B, mercury by 7471A, volatile organics by 8260B, and TPH-d/TPH-mo by 8015M.
9. Scan and send field forms to sara.bostick@atcgs.com

### Attachments

Budget \_\_\_\_\_ Workplan \_\_\_\_\_ Map X Chain-of Custody X  
Other: Site Photographic Log Well ConstructDiagram \_\_\_\_\_

### Project Manager Information

Work Requested By: Gabe Stivala Project Manager: Gabe Stivala

Date needed: 6/4/2018 Time Needed: \_\_\_\_\_ Hours Budgeted: \_\_\_\_\_

### Field Completion Data

Was the scope of work completed? Y N Completed by: GM  
If "No", describe work completed. Date Completed 05/30/18 060118

Flowmeter: \_\_\_\_\_ Gals **Comments:**  
Time: \_\_\_\_\_ hrs S-13 through S-24 were not ~~to~~ accessible  
Oxidizer: \_\_\_\_\_ hrs + S-31 + S-32  
Time: \_\_\_\_\_ hrs



**LEGEND**


- PROPOSED SOIL BORING



NOTE: SCALE AND LOCATIONS ARE APPROXIMATE

S

S:\Projects\EST\DAVID POWERS\114160009 ROSELAND CREEK\REMAP.dwg

PROJECT NUMBER: 114160009	DATE: 5/16/18	FIGURE
APPROVED BY: GS	DRAWN BY: BK	2
		
915 Highland Point Dr., Ste. 250 Roseville, California 95678 Ph: (916) 924-5247 *** Fax: (916) 724-5201		

**PROPOSED SAMPLING LOCATION MAP**  
 ROSELAND CREEK COMMUNITY PARK PROPERTY  
 SANTA ROSA, CA

BORING\_COORDS\_053018.txt

	LAT	LONG	
OK S-1.	38.424430	-122.734676	
S-2.	38.424550	-122.734199	38.42446 / 122.73412
OK S-3.	38.424673	-122.733689	
OK S-4.	38.424791	-122.733205	
S-5.	38.424943	-122.732672	38.42491 / 122.73282
S-6.	38.425044	-122.732147	38.42511 / 122.73214
OK S-7.	38.424097	-122.734597	<del>38.42511 / 122.73214</del>
OK S-8.	38.424210	-122.734124	
OK S-9.	38.424328	-122.733643	
OK S-10.	38.424450	-122.733163	
OK S-11.	38.424575	-122.732654	
OK S-12.	38.424686	-122.732122	
S-13.	38.423719	-122.734586	
S-14.	38.423832	-122.734078	
S-15.	38.423965	-122.733611	
S-16.	38.424064	-122.733125	
S-17.	38.424207	-122.732606	
S-18.	38.424338	-122.732069	
S-19.	38.423357	-122.734553	
S-20.	38.423457	-122.734043	
S-21.	38.423595	-122.733565	
S-22.	38.423703	-122.733072	
S-23.	38.423825	-122.732541	
S-24.	38.423960	-122.732024	
S-25.	38.423017	-122.734476	38.42304 / 122.73439
S-26.	38.423102	-122.734086	38.42313 / 122.73403
S-27.	38.423274	-122.733439	38.42327 / 122.73350
S-28.	38.423387	-122.733051	<del>42.338</del> 38.42338 / 122.73311
OK S-29.	38.423475	-122.732509	<del>38.42347</del>
OK S-30.	38.423611	-122.731989	
S-31.	38.422726	-122.734442	
S-32.	38.422797	-122.733964	
OK S-33.	38.422871	-122.733484	
OK S-34.	38.422972	-122.732994	
OK S-35.	38.423112	-122.732474	
S-36.	38.423236	-122.731929	38.42318 / 122.73215
→ S-37.	38.422291	-122.734396	38.42229 / 122.73434
OK S-38.	38.422398	-122.733892	
OK S-39.	38.422506	-122.733427	
OK S-40.	38.422627	-122.732938	
OK S-41.	38.422752	-122.732416	
OK S-42.	38.422873	-122.731872	
S-43.	38.42248	-122.73377	
S-44.	38.42258	-122.73347	



# Field Report

FLD-100

Revision 0.0

Jul-08

ATC Branch: 54-Modesto

Date: 053018

Page 1 of

ATC Representative(s): GM

Project: Roseland Creek Community Park

Role: Technician

Location: 1372 Burbank, CA

Contact Information: SB

Project No: 1141800009

Task No: 54001

Scope of Work:

Weather: Sun

Temperature:

 Monitoring  Assessment  Remediation  Closure

Contractor:

Time:

Comments:

1021

Onsite. Check in w/resident @ 1372, Debbie, inform of sampling for next 3 days. Told that 1400 Burbank has locked gate. Visual confirmation + request city open gate to GS.

1055

PG+E onsite meeting. Clear areas nearby houses for ~~of~~ underground utilities.

1114

PG+E offsite.

Scout out all 3 properties, 1400, 1370/1372, + 1027 McMinn.

1305

S-43, set up & sampled @ 0.5-1ft. lead + pesticides

1320

S-44 sampled @ 0.5-1ft. lead + pesticides

1415

S-25 sampled @ 0.5-1ft. lead + pesticides

1440

S-26 sampled @ 0.5-1ft. lead + pesticides

1505

S-6 sampled @ 0.5-1ft. Arsenic + lead w/pesticides

Scout out 1027 McMinn property - S-9, S-10, S-11 area dense w/poison ivy.

1630

Offsite.

Calibration of:

Dissolved Oxygen

pH

pH

Cond.

ORP

Unit Inspection: Pass / Fail

meter type: YSI PRO

(% )

(7.00)

(4.00)

(1.413)  
(mS/cm)(220)  
(mV)

Battery levels:

Screen / Casing:

Pre / Post

Comments:

Calibration Solution Expiration Date:

Cable Unit Serial No.:

Handheld Unit Serial No.:

Copies To:

Project Manager:

Reviewed By:





# Field Report

FLD-100

Revision 0.0

Jul-08

ATC Branch: 54-Modesto	Date: 053118	Page 1 of 1
ATC Representative(s): GM	Project: Roseland Creek Community Park	
Role: Technician	Location: 1372 Burbank, CA	
Contact Information: SB	Project No: 114180009	Task No: 54001
Scope of Work:	Weather: Sun	Temperature:
<input type="checkbox"/> Monitoring <input checked="" type="checkbox"/> Assessment <input type="checkbox"/> Remediation <input type="checkbox"/> Closure	Contractor:	

Time:	Comments:
0945	Onsite. Check in w/tenant, Debbie.
1108	S-27 sampled 0.5-1ft.
1121	S-28 sampled @ 0.5-1ft.
1142	S-29 sampled @ 0.5-1ft
1156	S-30 sampled @ 0.5-1ft
1225	Call City for access to 1400 Burbank Ave.
1317	S-37 sampled @ 0.5-1ft.
1333	S-38 sampled @ 0.5-1ft.
1403	S-39 sampled @ 0.5-1ft.
1426	S-40 sampled @ 0.5-1ft.
1450	S-41 sampled @ 0.5-1ft.
1510	S-42 sampled @ 0.5-1ft.
1550	S-36 sampled @ 0.5-1ft.
1605	S-35 sampled @ 0.5-1ft.
1625	S-34 sampled @ 0.5-1ft
1650	S-33 sampled @ 0.5-1ft
	Lock up. <del>at</del> Notify city contact.
1720	Left site

Calibration of:	Dissolved Oxygen	pH	pH	Cond.	ORP	Unit Inspection: Pass / Fail	
meter type: YSI PRO	(%)	(7.00)	(4.00)	(1.413) (mS/cm)	(220) (mV)	Battery levels:	
Pre / Post						Screen / Casing:	
						Comments:	
Calibration Solution Expiration Date:				Cable Unit Serial No.:			
				Handheld Unit Serial No.:			
Copies To:				Project Manager:			
				Reviewed By:			



# Field Report

FLD-100

Revision 0.0

Jul-08

ATC Branch: 54-Modesto	Date: 060118	Page 1 of 2
ATC Representative(s): CM	Project: Roseland Creek Community Park	
Role: Technician	Location: 1372 Burbank, CA	
Contact Information: SB	Project No: 114180009	Task No: 54001
Scope of Work:	Weather: Sun	Temperature:
<input type="checkbox"/> Monitoring <input checked="" type="checkbox"/> Assessment <input type="checkbox"/> Remediation <input type="checkbox"/> Closure	Contractor:	

Time:	Comments:
0800	Onsite. Begin on 1027 McMin side of park
0815	Neighbor of 1027 McMin, discuss history of park, city, + neighborhood debates for area.
0931	S-5 sampled @ 0.5-1ft.
1000	S-4 sampled @ 0.5-1ft.
1013	S-3 sampled @ 0.5-1ft.
1034	S-2 sampled @ 0.5-1ft.
1100	S-1 sampled @ 0.5-1ft.
1156	S-7 sampled @ 0.5-1ft.
1222	S-8 sampled @ 0.5-1ft.
1240	S-9 sampled @ 0.5-1ft.
1415	S-10 sampled @ 0.5-1ft.
1436	S-11 sampled @ 0.5-1ft.
1508	S-12 sampled @ 0.5-1ft.
1523	Contact GS about poison ivy throughout S-13-S-24 area. Weed abatement severely needed. Approved to not sample points S-13 through S-24, and S-31, S-32 due to vegetation overgrowth + poison ivy mix. <del>Offs</del>

Calibration of:	Dissolved Oxygen (%)	pH (7.00)	pH (4.00)	Cond. (1.413) (mS/cm)	ORP (220) (mV)	Unit Inspection: Pass / Fail	
						Battery levels:	Screen / Casing:
meter type: YSI PRO							
Pre / Post						Comments:	

Calibration Solution Expiration Date:	Cable Unit Serial No.:
	Handheld Unit Serial No.:
Copies To:	Project Manager:
	Reviewed By:





1117 Lone Palm Ave., Suite 201B  
 Modesto, CA 95351  
 Main Line: (209) 579-2221  
 Facsimile: (209) 579-2225

# CHAIN-OF-CUSTODY FORM

Project Name: Roseland Creek Community Park Client: David J. Powers & Associates  
 Project Number: 1141800009 Task: 54001 Global ID: N/A  
 Project Address: 1372 Burbank Ave., Santa Rosa, CA  
 Laboratory: BC Laboratories, Inc Contact: Molly Myers  
 Lab Address/Phone: 4100 Atlas Ct, Bakersfield, CA 93308  
 ATC Project Manager: Gabe Stivala  
 ATC PM Ph. No.: 925-223-7123 Email: gabe.stivala@atcgs.com  
 ATC Sampler: Genelle Martin Email: sara.bostick@atcgs.com

Turnaround      10 day      3 day      2-8 hr  
 Time:      7 day      2 day   X   STANDARD  
 (working days)      5 day      24 hr      ( )

### Analyses Requested

ATC Sample ID	Sample Information					Container Information			Preserved		Field ID	Organochlorine Pesticides by EPA 8081A	As by EPA 6010B	Pb by EPA 6010B	CAM 17 Metals by EPA6010B	Hg by EPA 7471A	Volatile Organics by EPA 8260B	TPH-d / TPH-mo by EPA 8015M	Notes/Comment
	Date	Time	Matrix			No.	Type	Preservative (HCL/HNO <sub>3</sub> /H <sub>2</sub> SO <sub>4</sub> )											
			Soil	Water	Vapor														
S-1	6/1/2018	11:00	X			1	16 Oz Jars	None			X	X							
S-2	6/1/2018	10:34										X							
S-3	6/1/2018	10:13										X							
S-4	6/1/2018	10:00										X							
S-5	6/1/2018	9:31										X							
S-6	5/30/2018	15:05											X						
S-7	6/1/2018	11:56										X							
S-8	6/1/2018	12:22										X							
S-9	6/1/2018	12:40										X							
S-10	6/1/2018	14:15										X							
S-11	6/1/2018	14:36										X							
S-12	6/1/2018	15:08										X							
S-25	5/30/2018	14:15											X						
S-26	5/30/2018	14:40											X						
S-27	5/31/2018	11:08											X						
S-28	5/31/2018	11:21										X							
S-29	5/31/2018	11:42										X							

Additional Comments: \_\_\_\_\_

Relinquished By: *Genelle Martin* Date/Time: 6/7/18 15:30 Received By: *[Signature]* Date/Time: 6/7/18 15:50  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Sample Condition. Good? Yes \_\_\_ No \_\_\_ On Ice? Yes \_\_\_ No \_\_\_ Cooler Temp \_\_\_ Transportation Method: \_\_\_\_\_ Page 1 of 2



**ENVIRONMENTAL - GEOTECHNICAL  
BUILDING SCIENCES - MATERIALS TESTING**

1117 Lone Palm Ave., Suite 201B  
Modesto, CA 95351  
Main Line: (209) 579-2221  
Facsimile: (209) 579-2225

### CHAIN-OF-CUSTODY FORM

Project Name: Roseland Creek Community Park Client: David J. Powers & Associates  
 Project Number: 1141800009 Task: 54001 Global ID: N/A  
 Project Address: 1372 Burbank Ave., Santa Rosa, CA  
 Laboratory: BC Laboratories, Inc Contact: Molly Myers  
 Lab Address/Phone: 4100 Atlas Ct, Bakersfield, CA 93308  
 ATC Project Manager: Gabe Stivala  
 ATC PM Ph. No.: 925-223-7123 Email: gabe.stivala@atcgs.com  
 ATC Sampler: Genelle Martin Email: sara.bostick@atcgs.com

Turnaround      10 day      3 day      2-8 hr  
 Time:      7 day      2 day   X   STANDARD  
 (working days)      5 day      24 hr      ( )

**Analyses Requested**

ATC Sample ID	Sample Information			Container Information			Preserved	Field ID	Analyses Requested							Notes/Comment		
	Date	Time	Matrix			No.			Type	Preservative (HCL/HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> )	Organochlorine Pesticides by EPA 8081A	As by EPA 6010B	Pb by EPA 6010B	CAM 17 Metals by EPA6010B	Hg by EPA 7471A		Volatile Organics by EPA 8260B	TPH-d / TPH-mo by EPA 8015M
			Soil	Water	Vapor													
S-30	5/31/2018	11:56	X			1	16 Oz Jars	None		X	X							
S-33	5/31/2018	16:50									X							
S-34	5/31/2018	16:25									X							
S-35	5/31/2018	16:05									X							
S-36	5/31/2018	15:50									X							
S-37	5/31/2018	13:17									X							
S-38	5/31/2018	13:33									X							
S-39	5/31/2018	14:03									X							
S-40	5/31/2018	14:26									X							
S-41	5/31/2018	14:50									X							
S-42	5/31/2018	15:10									X							
S-43	5/30/2018	13:05										X						
S-44	5/30/2018	13:20										X						

Additional Comments:

Relinquished By: *Genelle Martin* Date/Time: 6/7/18 15:50 Received By: *[Signature]* Date/Time: 6/7/18 15:50  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Sample Condition. Good? Yes \_\_\_ No \_\_\_ On Ice? Yes \_\_\_ No \_\_\_ Cooler Temp \_\_\_ Transportation Method: \_\_\_\_\_ Page 2 of 2

**Attachment B**

**Laboratory Analytical Report**



Date of Report: 07/19/2018

Gabe Stivala

ATC Group Services

915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

Client Project: 1141800009  
BCL Project: Roseland Creek Community Park  
BCL Work Order: 1818064  
Invoice ID: B307844, B310277

Enclosed are the results of analyses for samples received by the laboratory on 6/7/2018. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1000762016

Sincerely,

Contact Person: Molly Meyers  
Client Service Rep

Stuart Buttram  
Technical Director

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

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## Table of Contents

### Sample Information

Chain of Custody and Cooler Receipt form.....	4
Laboratory / Client Sample Cross Reference.....	9

### Sample Results

<b>1818064-01 - S-1</b>	
Organochlorine Pesticides (EPA Method 8081A).....	19
Total Concentrations (TTLC).....	20
<b>1818064-02 - S-2</b>	
Organochlorine Pesticides (EPA Method 8081A).....	21
Total Concentrations (TTLC).....	22
<b>1818064-03 - S-3</b>	
Organochlorine Pesticides (EPA Method 8081A).....	23
Total Concentrations (TTLC).....	24
<b>1818064-04 - S-4</b>	
Organochlorine Pesticides (EPA Method 8081A).....	25
Total Concentrations (TTLC).....	26
<b>1818064-05 - S-5</b>	
Organochlorine Pesticides (EPA Method 8081A).....	27
Total Concentrations (TTLC).....	28
<b>1818064-06 - S-6</b>	
Organochlorine Pesticides (EPA Method 8081A).....	29
Total Concentrations (TTLC).....	30
<b>1818064-07 - S-7</b>	
Organochlorine Pesticides (EPA Method 8081A).....	31
Total Concentrations (TTLC).....	32
<b>1818064-08 - S-8</b>	
Organochlorine Pesticides (EPA Method 8081A).....	33
Total Concentrations (TTLC).....	34
<b>1818064-09 - S-9</b>	
Organochlorine Pesticides (EPA Method 8081A).....	35
Total Concentrations (TTLC).....	36
<b>1818064-10 - S-10</b>	
Organochlorine Pesticides (EPA Method 8081A).....	37
Total Concentrations (TTLC).....	38
<b>1818064-11 - S-11</b>	
Organochlorine Pesticides (EPA Method 8081A).....	39
Total Concentrations (TTLC).....	40
<b>1818064-12 - S-12</b>	
Organochlorine Pesticides (EPA Method 8081A).....	41
Total Concentrations (TTLC).....	42
<b>1818064-13 - S-25</b>	
Organochlorine Pesticides (EPA Method 8081A).....	43
Total Concentrations (TTLC).....	44
<b>1818064-14 - S-26</b>	
Organochlorine Pesticides (EPA Method 8081A).....	45
Total Concentrations (TTLC).....	46
<b>1818064-15 - S-27</b>	
Organochlorine Pesticides (EPA Method 8081A).....	47
Total Concentrations (TTLC).....	48
<b>1818064-16 - S-28</b>	
Organochlorine Pesticides (EPA Method 8081A).....	49
Total Concentrations (TTLC).....	50
<b>1818064-17 - S-29</b>	
Organochlorine Pesticides (EPA Method 8081A).....	51

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## Table of Contents

Total Concentrations (TTLC).....	52
<b>1818064-18 - S-30</b>	
Organochlorine Pesticides (EPA Method 8081A).....	53
Total Concentrations (TTLC).....	54
<b>1818064-19 - S-33</b>	
Organochlorine Pesticides (EPA Method 8081A).....	55
Total Concentrations (TTLC).....	56
<b>1818064-20 - S-34</b>	
Organochlorine Pesticides (EPA Method 8081A).....	57
Total Concentrations (TTLC).....	58
<b>1818064-21 - S-35</b>	
Organochlorine Pesticides (EPA Method 8081A).....	59
Total Concentrations (TTLC).....	60
<b>1818064-22 - S-36</b>	
Organochlorine Pesticides (EPA Method 8081A).....	61
Total Concentrations (TTLC).....	62
<b>1818064-23 - S-37</b>	
Organochlorine Pesticides (EPA Method 8081A).....	63
Total Concentrations (TTLC).....	64
<b>1818064-24 - S-38</b>	
Organochlorine Pesticides (EPA Method 8081A).....	65
Total Concentrations (TTLC).....	66
<b>1818064-25 - S-39</b>	
Organochlorine Pesticides (EPA Method 8081A).....	67
Total Concentrations (TTLC).....	68
<b>1818064-26 - S-40</b>	
Organochlorine Pesticides (EPA Method 8081A).....	69
Total Concentrations (TTLC).....	70
<b>1818064-27 - S-41</b>	
Organochlorine Pesticides (EPA Method 8081A).....	71
Total Concentrations (TTLC).....	72
<b>1818064-28 - S-42</b>	
Organochlorine Pesticides (EPA Method 8081A).....	73
Total Concentrations (TTLC).....	74
<b>1818064-29 - S-43</b>	
Organochlorine Pesticides (EPA Method 8081A).....	75
Total Concentrations (TTLC).....	76
<b>1818064-30 - S-44</b>	
Organochlorine Pesticides (EPA Method 8081A).....	77
Total Concentrations (TTLC).....	78
<b>Quality Control Reports</b>	
<b>Organochlorine Pesticides (EPA Method 8081A)</b>	
Method Blank Analysis.....	79
Laboratory Control Sample.....	81
Precision and Accuracy.....	82
<b>Total Concentrations (TTLC)</b>	
Method Blank Analysis.....	83
Laboratory Control Sample.....	84
Precision and Accuracy.....	85
<b>Notes</b>	
Notes and Definitions.....	86

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### CHAIN-OF-CUSTODY FORM

**Turnaround Time:**  
 10 day — 3 day  
 7 day — 2 day  
 5 day — 24 hr

**Analyses Requested:**  
 2-8 hr  
 STANDARD

**Field ID:** 18-18064

**Preserved:**

ATC Sample ID	Sample Information		Container Information			Field ID	Organochlorine Pesticides by EPA 8081A	As by EPA 6010B	Pb by EPA 6010B	Cd by EPA 6010B	Hg by EPA 7471A	Volatile Organics by EPA 8260B	TPH/d/TPH-mo by EPA 8015M	Notes/Comment
	Date	Time	Matrix	No.	Type									
S-1	6/1/2018	11:00	X	1	16 Oz Jars		X							
S-2	6/1/2018	10:34					X							
S-3	6/1/2018	10:13					X							
S-4	6/1/2018	10:00					X							
S-5	6/1/2018	9:31					X							
S-6	5/30/2018	15:05					X							
S-7	6/1/2018	11:56					X							
S-8	6/1/2018	12:22					X							
S-9	6/1/2018	12:40					X							
S-10	6/1/2018	14:15					X							
S-11	6/1/2018	14:35					X							
S-12	6/1/2018	15:08					X							
S-25	5/30/2018	14:15						X						
S-26	5/30/2018	14:40						X						
S-27	5/31/2018	11:08						X						
S-28	5/31/2018	11:21						X						
S-29	5/31/2018	11:42						X						

**Additional Comments:**

CHK BY: DAVID J. POWERS  
 DISTRIBUTION  
 SUB-OUT

**Relinquished By:** Michelle Martin Date/Time: 6/7/18 15:50

**Relinquished By:** Capit Date/Time: 6/7/18 2130

**Relinquished By:** \_\_\_\_\_ Date/Time: \_\_\_\_\_

**Received By:** \_\_\_\_\_ Date/Time: \_\_\_\_\_

**Received By:** \_\_\_\_\_ Date/Time: \_\_\_\_\_

**Received By:** \_\_\_\_\_ Date/Time: \_\_\_\_\_

Sample Condition Good? Yes \_\_\_ No \_\_\_ On Ice? Yes \_\_\_ No \_\_\_

Cooler Temp: \_\_\_\_\_

Transportation Method: \_\_\_\_\_

Page 1 of 2

Pink - ATC

Yellow - Lab

White - Lab

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 of 3

Submission #: 18-18064

**SHIPPING INFORMATION**  
 Fed Ex  UPS  Ontrac  Hand Delivery   
 BC Lab Field Service  Other  (Specify) \_\_\_\_\_

**SHIPPING CONTAINER**  
 Ice Chest  None  Box   
 Other  (Specify) \_\_\_\_\_

**FREE LIQUID**  
 YES  NO   
 W / (S)

Refrigerant: Ice  Blue Ice  None  Other  Comments: \_\_\_\_\_

Custody Seals:  Containers  None  Comments: \_\_\_\_\_

All samples received? Yes  No  All samples containers intact? Yes  No  Description(s) match COC? Yes  No

COC Received: YES  NO

Emissivity: 0.97 Container: DONS Thermometer ID: 708 Date/Time: 6/1/18 2130  
 Temperature: (A) 0.50 °C / (C) 0.3 °C Analyst Init: [Signature]

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr <sup>6+</sup>										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/03/030										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml RPA 531.1										
8oz RPA 548										
QT EPA 549										
QT EPA 6015M										
QT EPA 6270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR	A	A	A	A	A	A	A	A	A	A
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
KINCORE										
SMART KIT										
SUMMA CANISTER										

Comments: \_\_\_\_\_ Date/Time: 6/1/2018 Rev 21 05/23/2016  
 Sample Numbering Completed By: [Signature] Date/Time: 6/1/2018  
 A = Actual / C = Corrected



BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 3  
 Submission #: 18-18064

SHIPPING INFORMATION: Fed Ex  UPS  Ontrac  Hand Delivery  BC Lab Field Service  Other  (Specify) \_\_\_\_\_  
 SHIPPING CONTAINER: Ice Chest  None  Box  Other  (Specify) \_\_\_\_\_  
 FREE LIQUID: YES  NO  W / (S)

Refrigerant: Ice  Blue Ice  None  Other  Comments: \_\_\_\_\_

Custody Seals:  Containers Intact? Yes  No  Comments: \_\_\_\_\_

All samples received? Yes  No  All samples containers intact? Yes  No  Description(s) match COC? Yes  No

COC Received:  YES  NO  
 Emissivity: 0.97 Container: 0005 Thermometer ID: 708 Date/Time: 10/11/18 2130  
 Temperature: (A) 0.30 °C / (C) 0.3 °C Analyst Init: vr

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr <sup>6</sup>										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - 504										
QT EPA 503/508/5080										
QT EPA 515.1/5150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 5915M										
QT EPA 5270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR	A	A	A	A	A	A	A	A	A	A
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: \_\_\_\_\_  
 Sample Numbering Completed By: GD Date/Time: 6/7 2220 Rev 21 05/23/2016  
 A = Actual / C = Corrected

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 3 of 3

Submission #: 1818064

SHIPPING INFORMATION: Fed Ex  UPS  Ontrac  Hand Delivery  BC Lab Field Service  Other  (Specify) \_\_\_\_\_

SHIPPING CONTAINER: Ice Chest  None  Box  Other  (Specify) \_\_\_\_\_

FREE LIQUID: YES  NO  W / S

Refrigerant: Ice  Blue Ice  None  Other  Comments: \_\_\_\_\_

Custody Seals: Ice Chests  Containers  None  Comments: \_\_\_\_\_

All samples received? Yes  No  All samples containers intact? Yes  No  Description(s) match COC? Yes  No

COC Received: YES  NO  Emissivity: 0.97 Container: 10016 Thermometer ID: 208 Date/Time: 6/18/2016 21:30

Temperature: (A) 0.52 °C / (C) 0.3 °C Analyst Init: [Signature]

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	21	22	23	24	25	26	27	28	29	30
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr <sup>6+</sup>										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - 504										
QT EPA 503/018/0030										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 545										
QT EPA 549										
QT EPA 801SM										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR	A	A	A	A	A	A	A	A	A	A
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: \_\_\_\_\_ Date/Time: 6/17/2016

Sample Numbering Completed By: [Signature] Rev 21 05/23/2016

A = Actual / C = Corrected



ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

<b>1818064-01</b>	<b>COC Number:</b> --- <b>Project Number:</b> Roseland Creek <b>Sampling Location:</b> --- <b>Sampling Point:</b> S-1 <b>Sampled By:</b> ATCE	<b>Receive Date:</b> 06/07/2018 21:30 <b>Sampling Date:</b> 06/01/2018 11:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil Delivery Work Order: Global ID: Location ID (FieldPoint): S-1 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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<b>1818064-02</b>	<b>COC Number:</b> --- <b>Project Number:</b> Roseland Creek <b>Sampling Location:</b> --- <b>Sampling Point:</b> S-2 <b>Sampled By:</b> ATCE	<b>Receive Date:</b> 06/07/2018 21:30 <b>Sampling Date:</b> 06/01/2018 10:34 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil Delivery Work Order: Global ID: Location ID (FieldPoint): S-2 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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<b>1818064-03</b>	<b>COC Number:</b> --- <b>Project Number:</b> Roseland Creek <b>Sampling Location:</b> --- <b>Sampling Point:</b> S-3 <b>Sampled By:</b> ATCE	<b>Receive Date:</b> 06/07/2018 21:30 <b>Sampling Date:</b> 06/01/2018 10:13 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil Delivery Work Order: Global ID: Location ID (FieldPoint): S-3 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

<b>1818064-04</b>	<b>COC Number:</b> --- <b>Project Number:</b> Roseland Creek <b>Sampling Location:</b> --- <b>Sampling Point:</b> S-4 <b>Sampled By:</b> ATCE	<b>Receive Date:</b> 06/07/2018 21:30 <b>Sampling Date:</b> 06/01/2018 10:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil Delivery Work Order: Global ID: Location ID (FieldPoint): S-4 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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<b>1818064-05</b>	<b>COC Number:</b> --- <b>Project Number:</b> Roseland Creek <b>Sampling Location:</b> --- <b>Sampling Point:</b> S-5 <b>Sampled By:</b> ATCE	<b>Receive Date:</b> 06/07/2018 21:30 <b>Sampling Date:</b> 06/01/2018 09:31 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil Delivery Work Order: Global ID: Location ID (FieldPoint): S-5 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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<b>1818064-06</b>	<b>COC Number:</b> --- <b>Project Number:</b> Roseland Creek <b>Sampling Location:</b> --- <b>Sampling Point:</b> S-6 <b>Sampled By:</b> ATCE	<b>Receive Date:</b> 06/07/2018 21:30 <b>Sampling Date:</b> 05/30/2018 15:05 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil Delivery Work Order: Global ID: Location ID (FieldPoint): S-6 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

<b>1818064-07</b>	<b>COC Number:</b> --- <b>Project Number:</b> Roseland Creek <b>Sampling Location:</b> --- <b>Sampling Point:</b> S-7 <b>Sampled By:</b> ATCE	<b>Receive Date:</b> 06/07/2018 21:30 <b>Sampling Date:</b> 06/01/2018 11:56 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil Delivery Work Order: Global ID: Location ID (FieldPoint): S-7 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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<b>1818064-08</b>	<b>COC Number:</b> --- <b>Project Number:</b> Roseland Creek <b>Sampling Location:</b> --- <b>Sampling Point:</b> S-8 <b>Sampled By:</b> ATCE	<b>Receive Date:</b> 06/07/2018 21:30 <b>Sampling Date:</b> 06/01/2018 12:22 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil Delivery Work Order: Global ID: Location ID (FieldPoint): S-8 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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<b>1818064-09</b>	<b>COC Number:</b> --- <b>Project Number:</b> Roseland Creek <b>Sampling Location:</b> --- <b>Sampling Point:</b> S-9 <b>Sampled By:</b> ATCE	<b>Receive Date:</b> 06/07/2018 21:30 <b>Sampling Date:</b> 06/01/2018 12:40 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil Delivery Work Order: Global ID: Location ID (FieldPoint): S-9 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>1818064-10</b>	<b>COC Number:</b> --- <b>Project Number:</b> Roseland Creek <b>Sampling Location:</b> --- <b>Sampling Point:</b> S-10 <b>Sampled By:</b> ATCE	<b>Receive Date:</b> 06/07/2018 21:30 <b>Sampling Date:</b> 06/01/2018 14:15 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil Delivery Work Order: Global ID: Location ID (FieldPoint): S-10 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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<b>1818064-11</b>	<b>COC Number:</b> --- <b>Project Number:</b> Roseland Creek <b>Sampling Location:</b> --- <b>Sampling Point:</b> S-11 <b>Sampled By:</b> ATCE	<b>Receive Date:</b> 06/07/2018 21:30 <b>Sampling Date:</b> 06/01/2018 14:36 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil Delivery Work Order: Global ID: Location ID (FieldPoint): S-11 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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<b>1818064-12</b>	<b>COC Number:</b> --- <b>Project Number:</b> Roseland Creek <b>Sampling Location:</b> --- <b>Sampling Point:</b> S-12 <b>Sampled By:</b> ATCE	<b>Receive Date:</b> 06/07/2018 21:30 <b>Sampling Date:</b> 06/01/2018 15:08 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil Delivery Work Order: Global ID: Location ID (FieldPoint): S-12 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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915 Highland Pointe Drive, Suite 250  
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**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

<b>1818064-13</b>	<b>COC Number:</b> --- <b>Project Number:</b> Roseland Creek <b>Sampling Location:</b> --- <b>Sampling Point:</b> S-25 <b>Sampled By:</b> ATCE	<b>Receive Date:</b> 06/07/2018 21:30 <b>Sampling Date:</b> 05/30/2018 14:15 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil Delivery Work Order: Global ID: Location ID (FieldPoint): S-25 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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<b>1818064-14</b>	<b>COC Number:</b> --- <b>Project Number:</b> Roseland Creek <b>Sampling Location:</b> --- <b>Sampling Point:</b> S-26 <b>Sampled By:</b> ATCE	<b>Receive Date:</b> 06/07/2018 21:30 <b>Sampling Date:</b> 05/30/2018 14:40 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil Delivery Work Order: Global ID: Location ID (FieldPoint): S-26 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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<b>1818064-15</b>	<b>COC Number:</b> --- <b>Project Number:</b> Roseland Creek <b>Sampling Location:</b> --- <b>Sampling Point:</b> S-27 <b>Sampled By:</b> ATCE	<b>Receive Date:</b> 06/07/2018 21:30 <b>Sampling Date:</b> 05/31/2018 11:08 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil Delivery Work Order: Global ID: Location ID (FieldPoint): S-27 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

<b>1818064-16</b>	<b>COC Number:</b> --- <b>Project Number:</b> Roseland Creek <b>Sampling Location:</b> --- <b>Sampling Point:</b> S-28 <b>Sampled By:</b> ATCE	<b>Receive Date:</b> 06/07/2018 21:30 <b>Sampling Date:</b> 05/31/2018 11:21 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil Delivery Work Order: Global ID: Location ID (FieldPoint): S-28 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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<b>1818064-17</b>	<b>COC Number:</b> --- <b>Project Number:</b> Roseland Creek <b>Sampling Location:</b> --- <b>Sampling Point:</b> S-29 <b>Sampled By:</b> ATCE	<b>Receive Date:</b> 06/07/2018 21:30 <b>Sampling Date:</b> 05/31/2018 11:42 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil Delivery Work Order: Global ID: Location ID (FieldPoint): S-29 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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<b>1818064-18</b>	<b>COC Number:</b> --- <b>Project Number:</b> Roseland Creek <b>Sampling Location:</b> --- <b>Sampling Point:</b> S-30 <b>Sampled By:</b> ATCE	<b>Receive Date:</b> 06/07/2018 21:30 <b>Sampling Date:</b> 05/31/2018 11:56 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil Delivery Work Order: Global ID: Location ID (FieldPoint): S-30 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

<b>1818064-19</b>	<b>COC Number:</b> --- <b>Project Number:</b> Roseland Creek <b>Sampling Location:</b> --- <b>Sampling Point:</b> S-33 <b>Sampled By:</b> ATCE	<b>Receive Date:</b> 06/07/2018 21:30 <b>Sampling Date:</b> 05/31/2018 16:50 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil Delivery Work Order: Global ID: Location ID (FieldPoint): S-33 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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<b>1818064-20</b>	<b>COC Number:</b> --- <b>Project Number:</b> Roseland Creek <b>Sampling Location:</b> --- <b>Sampling Point:</b> S-34 <b>Sampled By:</b> ATCE	<b>Receive Date:</b> 06/07/2018 21:30 <b>Sampling Date:</b> 05/31/2018 16:25 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil Delivery Work Order: Global ID: Location ID (FieldPoint): S-34 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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<b>1818064-21</b>	<b>COC Number:</b> --- <b>Project Number:</b> Roseland Creek <b>Sampling Location:</b> --- <b>Sampling Point:</b> S-35 <b>Sampled By:</b> ATCE	<b>Receive Date:</b> 06/07/2018 21:30 <b>Sampling Date:</b> 05/31/2018 16:05 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil Delivery Work Order: Global ID: Location ID (FieldPoint): S-35 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>1818064-22</b>	<b>COC Number:</b> --- <b>Project Number:</b> Roseland Creek <b>Sampling Location:</b> --- <b>Sampling Point:</b> S-36 <b>Sampled By:</b> ATCE	<b>Receive Date:</b> 06/07/2018 21:30 <b>Sampling Date:</b> 05/31/2018 15:50 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil Delivery Work Order: Global ID: Location ID (FieldPoint): S-36 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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<b>1818064-23</b>	<b>COC Number:</b> --- <b>Project Number:</b> Roseland Creek <b>Sampling Location:</b> --- <b>Sampling Point:</b> S-37 <b>Sampled By:</b> ATCE	<b>Receive Date:</b> 06/07/2018 21:30 <b>Sampling Date:</b> 05/31/2018 13:17 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil Delivery Work Order: Global ID: Location ID (FieldPoint): S-37 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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<b>1818064-24</b>	<b>COC Number:</b> --- <b>Project Number:</b> Roseland Creek <b>Sampling Location:</b> --- <b>Sampling Point:</b> S-38 <b>Sampled By:</b> ATCE	<b>Receive Date:</b> 06/07/2018 21:30 <b>Sampling Date:</b> 05/31/2018 13:33 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil Delivery Work Order: Global ID: Location ID (FieldPoint): S-38 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>1818064-25</b>	<b>COC Number:</b> --- <b>Project Number:</b> Roseland Creek <b>Sampling Location:</b> --- <b>Sampling Point:</b> S-39 <b>Sampled By:</b> ATCE	<b>Receive Date:</b> 06/07/2018 21:30 <b>Sampling Date:</b> 05/31/2018 14:03 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil Delivery Work Order: Global ID: Location ID (FieldPoint): S-39 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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<b>1818064-26</b>	<b>COC Number:</b> --- <b>Project Number:</b> Roseland Creek <b>Sampling Location:</b> --- <b>Sampling Point:</b> S-40 <b>Sampled By:</b> ATCE	<b>Receive Date:</b> 06/07/2018 21:30 <b>Sampling Date:</b> 05/31/2018 14:26 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil Delivery Work Order: Global ID: Location ID (FieldPoint): S-40 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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<b>1818064-27</b>	<b>COC Number:</b> --- <b>Project Number:</b> Roseland Creek <b>Sampling Location:</b> --- <b>Sampling Point:</b> S-41 <b>Sampled By:</b> ATCE	<b>Receive Date:</b> 06/07/2018 21:30 <b>Sampling Date:</b> 05/31/2018 14:50 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil Delivery Work Order: Global ID: Location ID (FieldPoint): S-41 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>1818064-28</b>	<b>COC Number:</b> --- <b>Project Number:</b> Roseland Creek <b>Sampling Location:</b> --- <b>Sampling Point:</b> S-42 <b>Sampled By:</b> ATCE	<b>Receive Date:</b> 06/07/2018 21:30 <b>Sampling Date:</b> 05/31/2018 15:10 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil Delivery Work Order: Global ID: Location ID (FieldPoint): S-42 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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<b>1818064-29</b>	<b>COC Number:</b> --- <b>Project Number:</b> Roseland Creek <b>Sampling Location:</b> --- <b>Sampling Point:</b> S-43 <b>Sampled By:</b> ATCE	<b>Receive Date:</b> 06/07/2018 21:30 <b>Sampling Date:</b> 05/30/2018 13:05 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil Delivery Work Order: Global ID: Location ID (FieldPoint): S-43 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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<b>1818064-30</b>	<b>COC Number:</b> --- <b>Project Number:</b> Roseland Creek <b>Sampling Location:</b> --- <b>Sampling Point:</b> S-44 <b>Sampled By:</b> ATCE	<b>Receive Date:</b> 06/07/2018 21:30 <b>Sampling Date:</b> 05/30/2018 13:20 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil Delivery Work Order: Global ID: Location ID (FieldPoint): S-44 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Organochlorine Pesticides (EPA Method 8081A)

<b>BCL Sample ID:</b> 1818064-01	<b>Client Sample Name:</b> Roseland Creek, S-1, 6/1/2018 11:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
alpha-BHC	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
beta-BHC	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
delta-BHC	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
gamma-BHC (Lindane)	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
Chlordane (Technical)	ND	mg/kg	0.96		EPA-8081A	ND	A10	1
4,4'-DDD	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
4,4'-DDE	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
4,4'-DDT	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
Dieldrin	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
Endosulfan I	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
Endosulfan II	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
Endosulfan sulfate	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
Endrin	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
Endrin aldehyde	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
Heptachlor	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
Heptachlor epoxide	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
Methoxychlor	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
Toxaphene	ND	mg/kg	0.96		EPA-8081A	ND	A10	1
TCMX (Surrogate)	64.3	%	20 - 130 (LCL - UCL)		EPA-8081A		A10	1
Decachlorobiphenyl (Surrogate)	67.1	%	40 - 130 (LCL - UCL)		EPA-8081A		A10	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 09:07	HKS	GC-17	19.108	B016524

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**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Total Concentrations (TTLC)

<b>BCL Sample ID:</b> 1818064-01	<b>Client Sample Name:</b> Roseland Creek, S-1, 6/1/2018 11:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	3.2	mg/kg	1.0		EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/22/18 14:27	JCC	PE-OP3	1	B016238

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**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Organochlorine Pesticides (EPA Method 8081A)

<b>BCL Sample ID:</b> 1818064-02	<b>Client Sample Name:</b> Roseland Creek, S-2, 6/1/2018 10:34:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
<b>4,4'-DDD</b>	<b>0.0015</b>	<b>mg/kg</b>	<b>0.00050</b>		<b>EPA-8081A</b>	ND		1
<b>4,4'-DDE</b>	<b>0.0069</b>	<b>mg/kg</b>	<b>0.00050</b>		<b>EPA-8081A</b>	ND		1
<b>4,4'-DDT</b>	<b>0.0066</b>	<b>mg/kg</b>	<b>0.00050</b>		<b>EPA-8081A</b>	ND		1
Dieldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	39.0	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	43.4	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 09:21	HKS	GC-17	0.993	B016524

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Total Concentrations (TTLC)

<b>BCL Sample ID:</b> 1818064-02	<b>Client Sample Name:</b> Roseland Creek, S-2, 6/1/2018 10:34:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	3.3	mg/kg	2.0		EPA-6010B	ND	A07	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:42	JCC	PE-OP3	1.980	B016238

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Organochlorine Pesticides (EPA Method 8081A)

<b>BCL Sample ID:</b> 1818064-03	<b>Client Sample Name:</b> Roseland Creek, S-3, 6/1/2018 10:13:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
<b>4,4'-DDD</b>	<b>0.00075</b>	<b>mg/kg</b>	<b>0.00050</b>		<b>EPA-8081A</b>	ND		1
<b>4,4'-DDE</b>	<b>0.0028</b>	<b>mg/kg</b>	<b>0.00050</b>		<b>EPA-8081A</b>	ND		1
<b>4,4'-DDT</b>	<b>0.0025</b>	<b>mg/kg</b>	<b>0.00050</b>		<b>EPA-8081A</b>	ND		1
Dieldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	39.5	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	39.3	%	40 - 130 (LCL - UCL)		EPA-8081A		S09	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 09:36	HKS	GC-17	0.987	B016524

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Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Total Concentrations (TTLC)

<b>BCL Sample ID:</b> 1818064-03	<b>Client Sample Name:</b> Roseland Creek, S-3, 6/1/2018 10:13:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	3.3	mg/kg	2.0		EPA-6010B	ND	A07	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:44	JCC	PE-OP3	1.980	B016238

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Organochlorine Pesticides (EPA Method 8081A)

<b>BCL Sample ID:</b> 1818064-04	<b>Client Sample Name:</b> Roseland Creek, S-4, 6/1/2018 10:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
<b>4,4'-DDD</b>	<b>0.00077</b>	<b>mg/kg</b>	<b>0.00050</b>		<b>EPA-8081A</b>	ND		1
<b>4,4'-DDE</b>	<b>0.0023</b>	<b>mg/kg</b>	<b>0.00050</b>		<b>EPA-8081A</b>	ND		1
<b>4,4'-DDT</b>	<b>0.0022</b>	<b>mg/kg</b>	<b>0.00050</b>		<b>EPA-8081A</b>	ND		1
Dieldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	51.4	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	50.6	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 09:51	HKS	GC-17	1.017	B016524

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915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Total Concentrations (TTLC)

<b>BCL Sample ID:</b> 1818064-04	<b>Client Sample Name:</b> Roseland Creek, S-4, 6/1/2018 10:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	4.1	mg/kg	2.0		EPA-6010B	ND	A07	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:46	JCC	PE-OP3	1.961	B016238

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Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
Project: Roseland Creek Community Park  
Project Number: 1141800009  
Project Manager: Gabe Stivala

### Organochlorine Pesticides (EPA Method 8081A)

<b>BCL Sample ID:</b> 1818064-05	<b>Client Sample Name:</b> Roseland Creek, S-5, 6/1/2018 9:31:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
<b>4,4'-DDD</b>	<b>0.0039</b>	<b>mg/kg</b>	<b>0.00050</b>		<b>EPA-8081A</b>	ND		1
<b>4,4'-DDE</b>	<b>0.015</b>	<b>mg/kg</b>	<b>0.0025</b>		<b>EPA-8081A</b>	ND	<b>A01</b>	2
<b>4,4'-DDT</b>	<b>0.013</b>	<b>mg/kg</b>	<b>0.0025</b>		<b>EPA-8081A</b>	ND	<b>A01</b>	2
Dieldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	0	%	20 - 130 (LCL - UCL)		EPA-8081A		S09	1
Decachlorobiphenyl (Surrogate)	34.2	%	40 - 130 (LCL - UCL)		EPA-8081A		S09	1
Decachlorobiphenyl (Surrogate)	40.4	%	40 - 130 (LCL - UCL)		EPA-8081A		A01	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 10:05		HKS	GC-17	0.990	B016524
2	EPA-8081A	06/11/18 08:30	06/12/18 15:41		HKS	GC-17	4.950	B016524

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Total Concentrations (TTLC)

<b>BCL Sample ID:</b> 1818064-05	<b>Client Sample Name:</b> Roseland Creek, S-5, 6/1/2018 9:31:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	4.2	mg/kg	1.0		EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:15	JCC	PE-OP3	0.990	B016238

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
Project: Roseland Creek Community Park  
Project Number: 1141800009  
Project Manager: Gabe Stivala

### Organochlorine Pesticides (EPA Method 8081A)

<b>BCL Sample ID:</b> 1818064-06	<b>Client Sample Name:</b> Roseland Creek, S-6, 5/30/2018 3:05:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
<b>Chlordane (Technical)</b>	<b>0.061</b>	<b>mg/kg</b>	<b>0.050</b>		<b>EPA-8081A</b>	ND		1
<b>4,4'-DDD</b>	<b>0.0038</b>	<b>mg/kg</b>	<b>0.00050</b>		<b>EPA-8081A</b>	ND		1
<b>4,4'-DDE</b>	<b>0.0098</b>	<b>mg/kg</b>	<b>0.0025</b>		<b>EPA-8081A</b>	ND	<b>A01</b>	2
<b>4,4'-DDT</b>	<b>0.0062</b>	<b>mg/kg</b>	<b>0.0025</b>		<b>EPA-8081A</b>	ND	<b>A01</b>	2
Dieldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	40.4	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	40.2	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 10:20	HKS	GC-17	1.010	B016524
2	EPA-8081A	06/11/18 08:30	06/12/18 15:56	HKS	GC-17	5.051	B016524

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Total Concentrations (TTLC)

<b>BCL Sample ID:</b> 1818064-06	<b>Client Sample Name:</b> Roseland Creek, S-6, 5/30/2018 3:05:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	5.5	mg/kg	1.0		EPA-6010B	ND		1
Lead	44	mg/kg	2.5		EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/22/18 14:54	JCC	PE-OP3	0.990	B016238

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Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Organochlorine Pesticides (EPA Method 8081A)

<b>BCL Sample ID:</b> 1818064-07	<b>Client Sample Name:</b> Roseland Creek, S-7, 6/1/2018 11:56:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
alpha-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
beta-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
delta-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
gamma-BHC (Lindane)	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Chlordane (Technical)	ND	mg/kg	0.50		EPA-8081A	ND	A10	1
4,4'-DDD	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
4,4'-DDE	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
4,4'-DDT	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Dieldrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan I	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan II	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan sulfate	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endrin aldehyde	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Heptachlor	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Heptachlor epoxide	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Methoxychlor	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Toxaphene	ND	mg/kg	0.50		EPA-8081A	ND	A10	1
TCMX (Surrogate)	34.9	%	20 - 130 (LCL - UCL)		EPA-8081A		A10	1
Decachlorobiphenyl (Surrogate)	39.0	%	40 - 130 (LCL - UCL)		EPA-8081A		A10,S09	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 11:18	HKS	GC-17	9.967	B016524

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Total Concentrations (TTLC)

<b>BCL Sample ID:</b> 1818064-07	<b>Client Sample Name:</b> Roseland Creek, S-7, 6/1/2018 11:56:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	3.4	mg/kg	1.0		EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/22/18 14:56	JCC	PE-OP3	1	B016238

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Organochlorine Pesticides (EPA Method 8081A)

<b>BCL Sample ID:</b> 1818064-08	<b>Client Sample Name:</b> Roseland Creek, S-8, 6/1/2018 12:22:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
<b>4,4'-DDD</b>	<b>0.0019</b>	<b>mg/kg</b>	<b>0.00050</b>		<b>EPA-8081A</b>	ND		1
<b>4,4'-DDE</b>	<b>0.0078</b>	<b>mg/kg</b>	<b>0.00050</b>		<b>EPA-8081A</b>	ND		1
<b>4,4'-DDT</b>	<b>0.0076</b>	<b>mg/kg</b>	<b>0.00050</b>		<b>EPA-8081A</b>	ND		1
Dieldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	38.2	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	40.4	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 11:33	HKS	GC-17	1.014	B016524

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**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Total Concentrations (TTLC)

<b>BCL Sample ID:</b> 1818064-08	<b>Client Sample Name:</b> Roseland Creek, S-8, 6/1/2018 12:22:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	4.8	mg/kg	2.0		EPA-6010B	ND	A07	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:47	JCC	PE-OP3	1.980	B016238

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**Reported:** 07/19/2018 9:45  
Project: Roseland Creek Community Park  
Project Number: 1141800009  
Project Manager: Gabe Stivala

### Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 1818064-09		Client Sample Name: Roseland Creek, S-9, 6/1/2018 12:40:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
<b>4,4'-DDD</b>	<b>0.0028</b>	<b>mg/kg</b>	<b>0.00050</b>		<b>EPA-8081A</b>	ND		1
<b>4,4'-DDE</b>	<b>0.014</b>	<b>mg/kg</b>	<b>0.0025</b>		<b>EPA-8081A</b>	ND	<b>A01</b>	2
<b>4,4'-DDT</b>	<b>0.010</b>	<b>mg/kg</b>	<b>0.0025</b>		<b>EPA-8081A</b>	ND	<b>A01</b>	2
Dieldrin	<b>0.00078</b>	<b>mg/kg</b>	<b>0.00050</b>		<b>EPA-8081A</b>	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	43.4	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	55.9	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 11:47	HKS	GC-17	1.017	B016524
2	EPA-8081A	06/11/18 08:30	06/12/18 16:25	HKS	GC-17	5.085	B016524

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Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Total Concentrations (TTLC)

<b>BCL Sample ID:</b> 1818064-09	<b>Client Sample Name:</b> Roseland Creek, S-9, 6/1/2018 12:40:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	3.7	mg/kg	1.0		EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:17	JCC	PE-OP3	0.990	B016238

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ATC Group Services  
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Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Organochlorine Pesticides (EPA Method 8081A)

<b>BCL Sample ID:</b> 1818064-10	<b>Client Sample Name:</b> Roseland Creek, S-10, 6/1/2018 2:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
<b>4,4'-DDD</b>	<b>0.0031</b>	<b>mg/kg</b>	<b>0.00050</b>		<b>EPA-8081A</b>	ND		1
<b>4,4'-DDE</b>	<b>0.012</b>	<b>mg/kg</b>	<b>0.0025</b>		<b>EPA-8081A</b>	ND	<b>A01</b>	2
<b>4,4'-DDT</b>	<b>0.010</b>	<b>mg/kg</b>	<b>0.0025</b>		<b>EPA-8081A</b>	ND	<b>A01</b>	2
Dieldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	46.0	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	42.8	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 12:02	HKS	GC-17	1.010	B016524
2	EPA-8081A	06/11/18 08:30	06/12/18 16:40	HKS	GC-17	5.051	B016524

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Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Total Concentrations (TTLC)

<b>BCL Sample ID:</b> 1818064-10	<b>Client Sample Name:</b> Roseland Creek, S-10, 6/1/2018 2:15:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	4.4	mg/kg	1.0		EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:19	JCC	PE-OP3	1	B016238

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915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
Project: Roseland Creek Community Park  
Project Number: 1141800009  
Project Manager: Gabe Stivala

### Organochlorine Pesticides (EPA Method 8081A)

<b>BCL Sample ID:</b> 1818064-11	<b>Client Sample Name:</b> Roseland Creek, S-11, 6/1/2018 2:36:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
<b>4,4'-DDD</b>	<b>0.0033</b>	<b>mg/kg</b>	<b>0.00050</b>		<b>EPA-8081A</b>	ND		1
<b>4,4'-DDE</b>	<b>0.011</b>	<b>mg/kg</b>	<b>0.0025</b>		<b>EPA-8081A</b>	ND	<b>A01</b>	2
<b>4,4'-DDT</b>	<b>0.011</b>	<b>mg/kg</b>	<b>0.0025</b>		<b>EPA-8081A</b>	ND	<b>A01</b>	2
Dieldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	51.1	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	42.4	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 12:16	HKS	GC-17	0.984	B016524
2	EPA-8081A	06/11/18 08:30	06/12/18 17:53	HKS	GC-17	4.918	B016524

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ATC Group Services  
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Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Total Concentrations (TTLC)

<b>BCL Sample ID:</b> 1818064-11	<b>Client Sample Name:</b> Roseland Creek, S-11, 6/1/2018 2:36:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	3.9	mg/kg	1.0		EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:20	JCC	PE-OP3	0.990	B016238

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**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Organochlorine Pesticides (EPA Method 8081A)

<b>BCL Sample ID:</b> 1818064-12	<b>Client Sample Name:</b> Roseland Creek, S-12, 6/1/2018 3:08:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
alpha-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
beta-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
delta-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
gamma-BHC (Lindane)	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Chlordane (Technical)	ND	mg/kg	0.50		EPA-8081A	ND	A10	1
4,4'-DDD	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
4,4'-DDE	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
<b>4,4'-DDT</b>	<b>0.0058</b>	<b>mg/kg</b>	<b>0.0050</b>		<b>EPA-8081A</b>	ND	<b>A10</b>	1
Dieldrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan I	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan II	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan sulfate	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endrin aldehyde	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Heptachlor	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Heptachlor epoxide	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Methoxychlor	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Toxaphene	ND	mg/kg	0.50		EPA-8081A	ND	A10	1
TCMX (Surrogate)	41.9	%	20 - 130 (LCL - UCL)		EPA-8081A		A10	1
Decachlorobiphenyl (Surrogate)	43.9	%	40 - 130 (LCL - UCL)		EPA-8081A		A10	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 12:31	HKS	GC-17	9.934	B016524

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**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Total Concentrations (TTLC)

<b>BCL Sample ID:</b> 1818064-12	<b>Client Sample Name:</b> Roseland Creek, S-12, 6/1/2018 3:08:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	4.2	mg/kg	2.0		EPA-6010B	ND	A07	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:49	JCC	PE-OP3	2	B016238

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ATC Group Services  
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**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1818064-13      **Client Sample Name:** Roseland Creek, S-25, 5/30/2018 2:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
alpha-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
beta-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
delta-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
gamma-BHC (Lindane)	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Chlordane (Technical)	ND	mg/kg	0.50		EPA-8081A	ND	A10	1
<b>4,4'-DDD</b>	<b>0.0056</b>	<b>mg/kg</b>	<b>0.0050</b>		<b>EPA-8081A</b>	ND	<b>A10</b>	1
<b>4,4'-DDE</b>	<b>0.0063</b>	<b>mg/kg</b>	<b>0.0050</b>		<b>EPA-8081A</b>	ND	<b>A10</b>	1
<b>4,4'-DDT</b>	<b>0.011</b>	<b>mg/kg</b>	<b>0.0050</b>		<b>EPA-8081A</b>	ND	<b>A10</b>	1
Dieldrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan I	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan II	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan sulfate	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endrin aldehyde	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Heptachlor	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Heptachlor epoxide	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Methoxychlor	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Toxaphene	ND	mg/kg	0.50		EPA-8081A	ND	A10	1
TCMX (Surrogate)	56.6	%	20 - 130 (LCL - UCL)		EPA-8081A		A10	1
Decachlorobiphenyl (Surrogate)	60.4	%	40 - 130 (LCL - UCL)		EPA-8081A		A10	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 12:46	HKS	GC-17	9.868	B016524

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
Project: Roseland Creek Community Park  
Project Number: 1141800009  
Project Manager: Gabe Stivala

### Total Concentrations (TTLC)

<b>BCL Sample ID:</b> 1818064-13	<b>Client Sample Name:</b> Roseland Creek, S-25, 5/30/2018 2:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	3.7	mg/kg	1.0		EPA-6010B	ND		1
Lead	34	mg/kg	2.5		EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:27	JCC	PE-OP3	0.971	B016238

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ATC Group Services  
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Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
Project: Roseland Creek Community Park  
Project Number: 1141800009  
Project Manager: Gabe Stivala

### Organochlorine Pesticides (EPA Method 8081A)

<b>BCL Sample ID:</b> 1818064-14	<b>Client Sample Name:</b> Roseland Creek, S-26, 5/30/2018 2:40:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.0098		EPA-8081A	ND	A10	1
alpha-BHC	ND	mg/kg	0.0098		EPA-8081A	ND	A10	1
beta-BHC	ND	mg/kg	0.0098		EPA-8081A	ND	A10	1
delta-BHC	ND	mg/kg	0.0098		EPA-8081A	ND	A10	1
gamma-BHC (Lindane)	ND	mg/kg	0.0098		EPA-8081A	ND	A10	1
Chlordane (Technical)	ND	mg/kg	0.98		EPA-8081A	ND	A10	1
<b>4,4'-DDD</b>	<b>0.016</b>	<b>mg/kg</b>	<b>0.0098</b>		<b>EPA-8081A</b>	ND	<b>A10</b>	1
<b>4,4'-DDE</b>	<b>0.020</b>	<b>mg/kg</b>	<b>0.0098</b>		<b>EPA-8081A</b>	ND	<b>A10</b>	1
<b>4,4'-DDT</b>	<b>0.047</b>	<b>mg/kg</b>	<b>0.0098</b>		<b>EPA-8081A</b>	ND	<b>A10</b>	1
Dieldrin	ND	mg/kg	0.0098		EPA-8081A	ND	A10	1
Endosulfan I	ND	mg/kg	0.0098		EPA-8081A	ND	A10	1
Endosulfan II	ND	mg/kg	0.0098		EPA-8081A	ND	A10	1
Endosulfan sulfate	ND	mg/kg	0.0098		EPA-8081A	ND	A10	1
Endrin	ND	mg/kg	0.0098		EPA-8081A	ND	A10	1
Endrin aldehyde	ND	mg/kg	0.0098		EPA-8081A	ND	A10	1
Heptachlor	ND	mg/kg	0.0098		EPA-8081A	ND	A10	1
Heptachlor epoxide	ND	mg/kg	0.0098		EPA-8081A	ND	A10	1
Methoxychlor	ND	mg/kg	0.0098		EPA-8081A	ND	A10	1
Toxaphene	ND	mg/kg	0.98		EPA-8081A	ND	A10	1
TCMX (Surrogate)	44.5	%	20 - 130 (LCL - UCL)		EPA-8081A		A10	1
Decachlorobiphenyl (Surrogate)	64.6	%	40 - 130 (LCL - UCL)		EPA-8081A		A10	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 13:00	HKS	GC-17	19.608	B016524

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Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
Project: Roseland Creek Community Park  
Project Number: 1141800009  
Project Manager: Gabe Stivala

### Total Concentrations (TTLC)

<b>BCL Sample ID:</b> 1818064-14	<b>Client Sample Name:</b> Roseland Creek, S-26, 5/30/2018 2:40:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	3.5	mg/kg	1.0		EPA-6010B	ND		1
Lead	120	mg/kg	2.5		EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:28	JCC	PE-OP3	0.980	B016238

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915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Organochlorine Pesticides (EPA Method 8081A)

<b>BCL Sample ID:</b> 1818064-15	<b>Client Sample Name:</b> Roseland Creek, S-27, 5/31/2018 11:08:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
alpha-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
beta-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
delta-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
gamma-BHC (Lindane)	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Chlordane (Technical)	ND	mg/kg	0.50		EPA-8081A	ND	A10	1
<b>4,4'-DDD</b>	<b>0.0099</b>	<b>mg/kg</b>	<b>0.0050</b>		<b>EPA-8081A</b>	ND	<b>A10</b>	1
<b>4,4'-DDE</b>	<b>0.021</b>	<b>mg/kg</b>	<b>0.0050</b>		<b>EPA-8081A</b>	ND	<b>A10</b>	1
<b>4,4'-DDT</b>	<b>0.025</b>	<b>mg/kg</b>	<b>0.0050</b>		<b>EPA-8081A</b>	ND	<b>A10</b>	1
Dieldrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan I	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan II	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan sulfate	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endrin aldehyde	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Heptachlor	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Heptachlor epoxide	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Methoxychlor	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Toxaphene	ND	mg/kg	0.50		EPA-8081A	ND	A10	1
TCMX (Surrogate)	145	%	20 - 130 (LCL - UCL)		EPA-8081A		A10,S09	1
Decachlorobiphenyl (Surrogate)	78.4	%	40 - 130 (LCL - UCL)		EPA-8081A		A10	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 13:15	HKS	GC-17	9.901	B016524

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
Project: Roseland Creek Community Park  
Project Number: 1141800009  
Project Manager: Gabe Stivala

### Total Concentrations (TTLC)

<b>BCL Sample ID:</b> 1818064-15	<b>Client Sample Name:</b> Roseland Creek, S-27, 5/31/2018 11:08:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	3.3	mg/kg	1.0		EPA-6010B	ND		1
Lead	36	mg/kg	2.5		EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:30	JCC	PE-OP3	0.990	B016238

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ATC Group Services  
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Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Organochlorine Pesticides (EPA Method 8081A)

<b>BCL Sample ID:</b> 1818064-16	<b>Client Sample Name:</b> Roseland Creek, S-28, 5/31/2018 11:21:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
alpha-BHC	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
beta-BHC	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
delta-BHC	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
gamma-BHC (Lindane)	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Chlordane (Technical)	ND	mg/kg	0.25		EPA-8081A	ND	A10	1
<b>4,4'-DDD</b>	<b>0.011</b>	<b>mg/kg</b>	<b>0.0025</b>		<b>EPA-8081A</b>	ND	<b>A10</b>	1
<b>4,4'-DDE</b>	<b>0.021</b>	<b>mg/kg</b>	<b>0.0025</b>		<b>EPA-8081A</b>	ND	<b>A10</b>	1
<b>4,4'-DDT</b>	<b>0.014</b>	<b>mg/kg</b>	<b>0.0025</b>		<b>EPA-8081A</b>	ND	<b>A10</b>	1
<b>Dieldrin</b>	<b>0.0032</b>	<b>mg/kg</b>	<b>0.0025</b>		<b>EPA-8081A</b>	ND	<b>A10</b>	1
Endosulfan I	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endosulfan II	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endosulfan sulfate	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endrin	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endrin aldehyde	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Heptachlor	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Heptachlor epoxide	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Methoxychlor	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Toxaphene	ND	mg/kg	0.25		EPA-8081A	ND	A10	1
TCMX (Surrogate)	58.3	%	20 - 130 (LCL - UCL)		EPA-8081A		A10	1
Decachlorobiphenyl (Surrogate)	58.1	%	40 - 130 (LCL - UCL)		EPA-8081A		A10	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 13:29	HKS	GC-17	5.068	B016524

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Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Total Concentrations (TTLC)

<b>BCL Sample ID:</b> 1818064-16	<b>Client Sample Name:</b> Roseland Creek, S-28, 5/31/2018 11:21:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	2.7	mg/kg	1.0		EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:31	JCC	PE-OP3	0.990	B016238

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Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Organochlorine Pesticides (EPA Method 8081A)

<b>BCL Sample ID:</b> 1818064-17	<b>Client Sample Name:</b> Roseland Creek, S-29, 5/31/2018 11:42:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
4,4'-DDD	ND	mg/kg	0.00050		EPA-8081A	ND		1
<b>4,4'-DDE</b>	<b>0.00054</b>	<b>mg/kg</b>	<b>0.00050</b>		<b>EPA-8081A</b>	ND		1
<b>4,4'-DDT</b>	<b>0.00094</b>	<b>mg/kg</b>	<b>0.00050</b>		<b>EPA-8081A</b>	ND		1
Dieldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	40.4	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	42.6	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 14:28	HKS	GC-17	1.017	B016524

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Total Concentrations (TTLC)

<b>BCL Sample ID:</b> 1818064-17	<b>Client Sample Name:</b> Roseland Creek, S-29, 5/31/2018 11:42:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	2.9	mg/kg	1.0		EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:33	JCC	PE-OP3	1	B016238

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Organochlorine Pesticides (EPA Method 8081A)

<b>BCL Sample ID:</b> 1818064-18	<b>Client Sample Name:</b> Roseland Creek, S-30, 5/31/2018 11:56:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
alpha-BHC	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
beta-BHC	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
delta-BHC	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
gamma-BHC (Lindane)	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Chlordane (Technical)	ND	mg/kg	0.25		EPA-8081A	ND	A10	1
<b>4,4'-DDD</b>	<b>0.0058</b>	<b>mg/kg</b>	<b>0.0025</b>		<b>EPA-8081A</b>	ND	<b>A10</b>	1
<b>4,4'-DDE</b>	<b>0.0054</b>	<b>mg/kg</b>	<b>0.0025</b>		<b>EPA-8081A</b>	ND	<b>A10</b>	1
<b>4,4'-DDT</b>	<b>0.017</b>	<b>mg/kg</b>	<b>0.0025</b>		<b>EPA-8081A</b>	ND	<b>A10</b>	1
Dieldrin	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endosulfan I	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endosulfan II	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endosulfan sulfate	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endrin	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endrin aldehyde	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Heptachlor	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Heptachlor epoxide	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Methoxychlor	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Toxaphene	ND	mg/kg	0.25		EPA-8081A	ND	A10	1
TCMX (Surrogate)	63.7	%	20 - 130 (LCL - UCL)		EPA-8081A		A10	1
Decachlorobiphenyl (Surrogate)	53.3	%	40 - 130 (LCL - UCL)		EPA-8081A		A10	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 14:43	HKS	GC-17	5.017	B016524

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Total Concentrations (TTLC)

<b>BCL Sample ID:</b> 1818064-18	<b>Client Sample Name:</b> Roseland Creek, S-30, 5/31/2018 11:56:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	3.2	mg/kg	1.0		EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:34	JCC	PE-OP3	0.990	B016238

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Organochlorine Pesticides (EPA Method 8081A)

<b>BCL Sample ID:</b> 1818064-19	<b>Client Sample Name:</b> Roseland Creek, S-33, 5/31/2018 4:50:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
<b>4,4'-DDD</b>	<b>0.00093</b>	<b>mg/kg</b>	<b>0.00050</b>		<b>EPA-8081A</b>	ND		1
<b>4,4'-DDE</b>	<b>0.00057</b>	<b>mg/kg</b>	<b>0.00050</b>		<b>EPA-8081A</b>	ND		1
<b>4,4'-DDT</b>	<b>0.0053</b>	<b>mg/kg</b>	<b>0.00050</b>		<b>EPA-8081A</b>	ND		1
<b>Dieldrin</b>	<b>0.00058</b>	<b>mg/kg</b>	<b>0.00050</b>		<b>EPA-8081A</b>	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	51.0	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	49.6	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 14:58	HKS	GC-17	1.003	B016524

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Total Concentrations (TTLC)

<b>BCL Sample ID:</b> 1818064-19	<b>Client Sample Name:</b> Roseland Creek, S-33, 5/31/2018 4:50:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	2.8	mg/kg	1.0		EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:36	JCC	PE-OP3	0.990	B016238

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
Project: Roseland Creek Community Park  
Project Number: 1141800009  
Project Manager: Gabe Stivala

### Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1818064-20      **Client Sample Name:** Roseland Creek, S-34, 5/31/2018 4:25:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
4,4'-DDD	ND	mg/kg	0.00050		EPA-8081A	ND		1
4,4'-DDE	ND	mg/kg	0.00050		EPA-8081A	ND		1
<b>4,4'-DDT</b>	<b>0.00075</b>	<b>mg/kg</b>	<b>0.00050</b>		<b>EPA-8081A</b>	ND		1
Dieldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	46.8	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	56.1	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 15:12	HKS	GC-17	0.987	B016524

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Total Concentrations (TTLC)

<b>BCL Sample ID:</b> 1818064-20	<b>Client Sample Name:</b> Roseland Creek, S-34, 5/31/2018 4:25:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	2.7	mg/kg	1.0		EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:37	JCC	PE-OP3	0.990	B016238

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

Table with 2 columns: BCL Sample ID (1818064-21) and Client Sample Name (Roseland Creek, S-35, 5/31/2018 4:05:00PM)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Qualls, Run #. Lists various pesticides like Aldrin, alpha-BHC, beta-BHC, etc.

QC Summary table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID.

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Total Concentrations (TTLC)

<b>BCL Sample ID:</b> 1818064-21	<b>Client Sample Name:</b> Roseland Creek, S-35, 5/31/2018 4:05:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	4.1	mg/kg	2.0		EPA-6010B	ND	A07	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 10:36	06/21/18 23:14	KDF	PE-OP3	2	B016239

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Organochlorine Pesticides (EPA Method 8081A)

<b>BCL Sample ID:</b> 1818064-22	<b>Client Sample Name:</b> Roseland Creek, S-36, 5/31/2018 3:50:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
4,4'-DDD	ND	mg/kg	0.00050		EPA-8081A	ND		1
<b>4,4'-DDE</b>	<b>0.00071</b>	<b>mg/kg</b>	<b>0.00050</b>		<b>EPA-8081A</b>	ND		1
<b>4,4'-DDT</b>	<b>0.0013</b>	<b>mg/kg</b>	<b>0.00050</b>		<b>EPA-8081A</b>	ND		1
Dieldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	62.1	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	52.5	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 09:40	06/12/18 19:35	HKS	GC-17	1.017	B016531

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Total Concentrations (TTLC)

<b>BCL Sample ID:</b> 1818064-22	<b>Client Sample Name:</b> Roseland Creek, S-36, 5/31/2018 3:50:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	5.2	mg/kg	2.0		EPA-6010B	ND	A07	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 10:36	06/21/18 23:49	KDF	PE-OP3	1.980	B016239

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1818064-23      **Client Sample Name:** Roseland Creek, S-37, 5/31/2018 1:17:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
4,4'-DDD	ND	mg/kg	0.00050		EPA-8081A	ND		1
4,4'-DDE	ND	mg/kg	0.00050		EPA-8081A	ND		1
4,4'-DDT	ND	mg/kg	0.00050		EPA-8081A	ND		1
Dieldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	45.7	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	42.1	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 09:40	06/12/18 19:49	HKS	GC-17	0.990	B016531

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Total Concentrations (TTLC)

<b>BCL Sample ID:</b> 1818064-23	<b>Client Sample Name:</b> Roseland Creek, S-37, 5/31/2018 1:17:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	2.6	mg/kg	2.0		EPA-6010B	ND	A07	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 10:36	06/21/18 23:51	KDF	PE-OP3	1.980	B016239

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1818064-24      **Client Sample Name:** Roseland Creek, S-38, 5/31/2018 1:33:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
4,4'-DDD	ND	mg/kg	0.00050		EPA-8081A	ND		1
4,4'-DDE	ND	mg/kg	0.00050		EPA-8081A	ND		1
4,4'-DDT	ND	mg/kg	0.00050		EPA-8081A	ND		1
Dieldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	37.9	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	42.1	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 09:40	06/12/18 20:04	HKS	GC-17	0.990	B016531

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Total Concentrations (TTLC)

<b>BCL Sample ID:</b> 1818064-24	<b>Client Sample Name:</b> Roseland Creek, S-38, 5/31/2018 1:33:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	3.2	mg/kg	2.0		EPA-6010B	ND	A07	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 10:36	06/21/18 23:53	KDF	PE-OP3	1.942	B016239

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
Project: Roseland Creek Community Park  
Project Number: 1141800009  
Project Manager: Gabe Stivala

### Organochlorine Pesticides (EPA Method 8081A)

<b>BCL Sample ID:</b> 1818064-25	<b>Client Sample Name:</b> Roseland Creek, S-39, 5/31/2018 2:03:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
alpha-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
beta-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
delta-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
gamma-BHC (Lindane)	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Chlordane (Technical)	ND	mg/kg	0.50		EPA-8081A	ND	A10	1
4,4'-DDD	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
4,4'-DDE	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
4,4'-DDT	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Dieldrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan I	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan II	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan sulfate	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endrin aldehyde	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Heptachlor	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Heptachlor epoxide	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Methoxychlor	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Toxaphene	ND	mg/kg	0.50		EPA-8081A	ND	A10	1
TCMX (Surrogate)	36.3	%	20 - 130 (LCL - UCL)		EPA-8081A		A10	1
Decachlorobiphenyl (Surrogate)	39.7	%	40 - 130 (LCL - UCL)		EPA-8081A		A10,S09	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 09:40	06/12/18 21:17	HKS	GC-17	9.901	B016531

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Total Concentrations (TTLC)

<b>BCL Sample ID:</b> 1818064-25	<b>Client Sample Name:</b> Roseland Creek, S-39, 5/31/2018 2:03:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	4.0	mg/kg	2.0		EPA-6010B	ND	A07	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 10:36	06/21/18 23:54	KDF	PE-OP3	1.980	B016239

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Organochlorine Pesticides (EPA Method 8081A)

<b>BCL Sample ID:</b> 1818064-26	<b>Client Sample Name:</b> Roseland Creek, S-40, 5/31/2018 2:26:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
alpha-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
beta-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
delta-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
gamma-BHC (Lindane)	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Chlordane (Technical)	ND	mg/kg	0.50		EPA-8081A	ND	A10	1
4,4'-DDD	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
4,4'-DDE	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
4,4'-DDT	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Dieldrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan I	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan II	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan sulfate	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endrin aldehyde	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Heptachlor	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Heptachlor epoxide	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Methoxychlor	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Toxaphene	ND	mg/kg	0.50		EPA-8081A	ND	A10	1
TCMX (Surrogate)	75.2	%	20 - 130 (LCL - UCL)		EPA-8081A		A10	1
Decachlorobiphenyl (Surrogate)	82.8	%	40 - 130 (LCL - UCL)		EPA-8081A		A10	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 09:40	06/12/18 21:32	HKS	GC-17	10.101	B016531

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Total Concentrations (TTLC)

<b>BCL Sample ID:</b> 1818064-26	<b>Client Sample Name:</b> Roseland Creek, S-40, 5/31/2018 2:26:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	3.0	mg/kg	2.0		EPA-6010B	ND	A07	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 10:36	06/21/18 23:56	KDF	PE-OP3	1.980	B016239

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1818064-27      **Client Sample Name:** Roseland Creek, S-41, 5/31/2018 2:50:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
4,4'-DDD	ND	mg/kg	0.00050		EPA-8081A	ND		1
4,4'-DDE	ND	mg/kg	0.00050		EPA-8081A	ND		1
4,4'-DDT	ND	mg/kg	0.00050		EPA-8081A	ND		1
Dieldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	50.0	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	46.9	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 09:40	06/12/18 21:46	HKS	GC-17	1.010	B016531

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Total Concentrations (TTLC)

<b>BCL Sample ID:</b> 1818064-27	<b>Client Sample Name:</b> Roseland Creek, S-41, 5/31/2018 2:50:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	3.2	mg/kg	2.0		EPA-6010B	ND	A07	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 10:36	06/21/18 23:58	KDF	PE-OP3	1.980	B016239

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1818064-28      **Client Sample Name:** Roseland Creek, S-42, 5/31/2018 3:10:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
4,4'-DDD	ND	mg/kg	0.00050		EPA-8081A	ND		1
4,4'-DDE	ND	mg/kg	0.00050		EPA-8081A	ND		1
4,4'-DDT	ND	mg/kg	0.00050		EPA-8081A	ND		1
Dieldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	60.9	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	58.8	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 09:40	06/12/18 22:01	HKS	GC-17	1.003	B016531

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Total Concentrations (TTLC)

<b>BCL Sample ID:</b> 1818064-28	<b>Client Sample Name:</b> Roseland Creek, S-42, 5/31/2018 3:10:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	3.8	mg/kg	2.0		EPA-6010B	ND	A07	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 10:36	06/22/18 00:00	KDF	PE-OP3	1.961	B016239

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 1818064-29      **Client Sample Name:** Roseland Creek, S-43, 5/30/2018 1:05:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
alpha-BHC	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
beta-BHC	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
delta-BHC	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
gamma-BHC (Lindane)	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Chlordane (Technical)	ND	mg/kg	0.25		EPA-8081A	ND	A10	1
<b>4,4'-DDD</b>	<b>0.020</b>	<b>mg/kg</b>	<b>0.0025</b>		<b>EPA-8081A</b>	ND	<b>A10</b>	1
<b>4,4'-DDE</b>	<b>0.018</b>	<b>mg/kg</b>	<b>0.0025</b>		<b>EPA-8081A</b>	ND	<b>A10</b>	1
<b>4,4'-DDT</b>	<b>0.048</b>	<b>mg/kg</b>	<b>0.0025</b>		<b>EPA-8081A</b>	ND	<b>A10</b>	1
<b>Dieldrin</b>	<b>0.0065</b>	<b>mg/kg</b>	<b>0.0025</b>		<b>EPA-8081A</b>	ND	<b>A10</b>	1
Endosulfan I	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endosulfan II	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endosulfan sulfate	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endrin	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endrin aldehyde	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Heptachlor	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Heptachlor epoxide	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Methoxychlor	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Toxaphene	ND	mg/kg	0.25		EPA-8081A	ND	A10	1
TCMX (Surrogate)	20.7	%	20 - 130 (LCL - UCL)		EPA-8081A		A10	1
Decachlorobiphenyl (Surrogate)	25.5	%	40 - 130 (LCL - UCL)		EPA-8081A		A10,S09	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 09:40	06/12/18 22:15	HKS	GC-17	5.034	B016531

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Total Concentrations (TTLC)

<b>BCL Sample ID:</b> 1818064-29	<b>Client Sample Name:</b> Roseland Creek, S-43, 5/30/2018 1:05:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	4.1	mg/kg	2.0		EPA-6010B	ND	A07	1
Lead	29	mg/kg	5.0		EPA-6010B	ND	A07	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 10:36	06/22/18 00:08	KDF	PE-OP3	1.961	B016239

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Organochlorine Pesticides (EPA Method 8081A)

<b>BCL Sample ID:</b> 1818064-30	<b>Client Sample Name:</b> Roseland Creek, S-44, 5/30/2018 1:20:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
alpha-BHC	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
beta-BHC	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
delta-BHC	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
gamma-BHC (Lindane)	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Chlordane (Technical)	ND	mg/kg	0.25		EPA-8081A	ND	A10	1
<b>4,4'-DDD</b>	<b>0.011</b>	<b>mg/kg</b>	<b>0.0025</b>		<b>EPA-8081A</b>	ND	<b>A10</b>	1
<b>4,4'-DDE</b>	<b>0.0037</b>	<b>mg/kg</b>	<b>0.0025</b>		<b>EPA-8081A</b>	ND	<b>A10</b>	1
<b>4,4'-DDT</b>	<b>0.023</b>	<b>mg/kg</b>	<b>0.0025</b>		<b>EPA-8081A</b>	ND	<b>A10</b>	1
<b>Dieldrin</b>	<b>0.013</b>	<b>mg/kg</b>	<b>0.0025</b>		<b>EPA-8081A</b>	ND	<b>A10</b>	1
Endosulfan I	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endosulfan II	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endosulfan sulfate	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endrin	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endrin aldehyde	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Heptachlor	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Heptachlor epoxide	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Methoxychlor	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Toxaphene	ND	mg/kg	0.25		EPA-8081A	ND	A10	1
TCMX (Surrogate)	50.5	%	20 - 130 (LCL - UCL)		EPA-8081A		A10	1
Decachlorobiphenyl (Surrogate)	38.7	%	40 - 130 (LCL - UCL)		EPA-8081A		A10,S09	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 09:40	06/12/18 22:30	HKS	GC-17	4.983	B016531

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
Project: Roseland Creek Community Park  
Project Number: 1141800009  
Project Manager: Gabe Stivala

### Total Concentrations (TTLIC)

<b>BCL Sample ID:</b> 1818064-30	<b>Client Sample Name:</b> Roseland Creek, S-44, 5/30/2018 1:20:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	3.0	mg/kg	2.0		EPA-6010B	ND	A07	1
Lead	110	mg/kg	5.0		EPA-6010B	ND	A07	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 10:36	06/22/18 00:06	KDF	PE-OP3	1.980	B016239

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
Project: Roseland Creek Community Park  
Project Number: 1141800009  
Project Manager: Gabe Stivala

## Organochlorine Pesticides (EPA Method 8081A)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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**QC Batch ID: B016524**

Aldrin	B016524-BLK1	ND	mg/kg	0.00050		
alpha-BHC	B016524-BLK1	ND	mg/kg	0.00050		
beta-BHC	B016524-BLK1	ND	mg/kg	0.00050		
delta-BHC	B016524-BLK1	ND	mg/kg	0.00050		
gamma-BHC (Lindane)	B016524-BLK1	ND	mg/kg	0.00050		
Chlordane (Technical)	B016524-BLK1	ND	mg/kg	0.050		
4,4'-DDD	B016524-BLK1	ND	mg/kg	0.00050		
4,4'-DDE	B016524-BLK1	ND	mg/kg	0.00050		
4,4'-DDT	B016524-BLK1	ND	mg/kg	0.00050		
Dieldrin	B016524-BLK1	ND	mg/kg	0.00050		
Endosulfan I	B016524-BLK1	ND	mg/kg	0.00050		
Endosulfan II	B016524-BLK1	ND	mg/kg	0.00050		
Endosulfan sulfate	B016524-BLK1	ND	mg/kg	0.00050		
Endrin	B016524-BLK1	ND	mg/kg	0.00050		
Endrin aldehyde	B016524-BLK1	ND	mg/kg	0.00050		
Heptachlor	B016524-BLK1	ND	mg/kg	0.00050		
Heptachlor epoxide	B016524-BLK1	ND	mg/kg	0.00050		
Methoxychlor	B016524-BLK1	ND	mg/kg	0.00050		
Toxaphene	B016524-BLK1	ND	mg/kg	0.050		
<b>TCMX (Surrogate)</b>	<b>B016524-BLK1</b>	<b>85.3</b>	<b>%</b>	<b>20 - 130 (LCL - UCL)</b>		
<b>Decachlorobiphenyl (Surrogate)</b>	<b>B016524-BLK1</b>	<b>88.0</b>	<b>%</b>	<b>40 - 130 (LCL - UCL)</b>		

**QC Batch ID: B016531**

Aldrin	B016531-BLK1	ND	mg/kg	0.00050		
alpha-BHC	B016531-BLK1	ND	mg/kg	0.00050		
beta-BHC	B016531-BLK1	ND	mg/kg	0.00050		
delta-BHC	B016531-BLK1	ND	mg/kg	0.00050		
gamma-BHC (Lindane)	B016531-BLK1	ND	mg/kg	0.00050		
Chlordane (Technical)	B016531-BLK1	ND	mg/kg	0.050		
4,4'-DDD	B016531-BLK1	ND	mg/kg	0.00050		
4,4'-DDE	B016531-BLK1	ND	mg/kg	0.00050		
4,4'-DDT	B016531-BLK1	ND	mg/kg	0.00050		
Dieldrin	B016531-BLK1	ND	mg/kg	0.00050		
Endosulfan I	B016531-BLK1	ND	mg/kg	0.00050		

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ATC Group Services  
915 Highland Pointe Drive, Suite 250  
Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
Project: Roseland Creek Community Park  
Project Number: 1141800009  
Project Manager: Gabe Stivala

## Organochlorine Pesticides (EPA Method 8081A)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B016531</b>						
Endosulfan II	B016531-BLK1	ND	mg/kg	0.00050		
Endosulfan sulfate	B016531-BLK1	ND	mg/kg	0.00050		
Endrin	B016531-BLK1	ND	mg/kg	0.00050		
Endrin aldehyde	B016531-BLK1	ND	mg/kg	0.00050		
Heptachlor	B016531-BLK1	ND	mg/kg	0.00050		
Heptachlor epoxide	B016531-BLK1	ND	mg/kg	0.00050		
Methoxychlor	B016531-BLK1	ND	mg/kg	0.00050		
Toxaphene	B016531-BLK1	ND	mg/kg	0.050		
<b>TCMX (Surrogate)</b>	<b>B016531-BLK1</b>	<b>64.0</b>	<b>%</b>	<b>20 - 130 (LCL - UCL)</b>		
<b>Decachlorobiphenyl (Surrogate)</b>	<b>B016531-BLK1</b>	<b>97.5</b>	<b>%</b>	<b>40 - 130 (LCL - UCL)</b>		

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Project Number: 1141800009  
Project Manager: Gabe Stivala

## Organochlorine Pesticides (EPA Method 8081A)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: B016524</b>										
Aldrin	B016524-BS1	LCS	0.0042842	0.0050336	mg/kg	85.1		70 - 130		
gamma-BHC (Lindane)	B016524-BS1	LCS	0.0042034	0.0050336	mg/kg	83.5		60 - 140		
4,4'-DDT	B016524-BS1	LCS	0.0042980	0.0050336	mg/kg	85.4		60 - 140		
Dieldrin	B016524-BS1	LCS	0.0040728	0.0050336	mg/kg	80.9		70 - 130		
Endrin	B016524-BS1	LCS	0.0041054	0.0050336	mg/kg	81.6		60 - 140		
Heptachlor	B016524-BS1	LCS	0.0040745	0.0050336	mg/kg	80.9		60 - 140		
TCMX (Surrogate)	B016524-BS1	LCS	0.0069228	0.010067	mg/kg	68.8		20 - 130		
Decachlorobiphenyl (Surrogate)	B016524-BS1	LCS	0.012693	0.020134	mg/kg	63.0		40 - 130		
<b>QC Batch ID: B016531</b>										
Aldrin	B016531-BS1	LCS	0.0043541	0.0050676	mg/kg	85.9		70 - 130		
gamma-BHC (Lindane)	B016531-BS1	LCS	0.0050760	0.0050676	mg/kg	100		60 - 140		
4,4'-DDT	B016531-BS1	LCS	0.0070740	0.0050676	mg/kg	140		60 - 140		
Dieldrin	B016531-BS1	LCS	0.0048818	0.0050676	mg/kg	96.3		70 - 130		
Endrin	B016531-BS1	LCS	0.0070010	0.0050676	mg/kg	138		60 - 140		
Heptachlor	B016531-BS1	LCS	0.0046341	0.0050676	mg/kg	91.4		60 - 140		
TCMX (Surrogate)	B016531-BS1	LCS	0.0062693	0.010135	mg/kg	61.9		20 - 130		
Decachlorobiphenyl (Surrogate)	B016531-BS1	LCS	0.018648	0.020270	mg/kg	92.0		40 - 130		

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Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes QC Batch ID: B016524 and Used client sample: Y - Description: S-2, 06/01/2018 10:34.

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes QC Batch ID: B016531 and Used client sample: Y - Description: S-35, 05/31/2018 16:05.

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Roseville, CA 95678

**Reported:** 07/19/2018 9:45  
Project: Roseland Creek Community Park  
Project Number: 1141800009  
Project Manager: Gabe Stivala

### Total Concentrations (TTLIC)

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B016238</b>						
Arsenic	B016238-BLK1	ND	mg/kg	1.0		
Lead	B016238-BLK1	ND	mg/kg	2.5		
<b>QC Batch ID: B016239</b>						
Arsenic	B016239-BLK1	ND	mg/kg	1.0		
Lead	B016239-BLK1	ND	mg/kg	2.5		

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**Reported:** 07/19/2018 9:45  
Project: Roseland Creek Community Park  
Project Number: 1141800009  
Project Manager: Gabe Stivala

### Total Concentrations (TTLC)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: B016238</b>										
Arsenic	B016238-BS1	LCS	10.106	10.000	mg/kg	101		75 - 125		
Lead	B016238-BS1	LCS	109.96	100.00	mg/kg	110		75 - 125		
<b>QC Batch ID: B016239</b>										
Arsenic	B016239-BS1	LCS	9.6023	10.000	mg/kg	96.0		75 - 125		
Lead	B016239-BS1	LCS	102.46	100.00	mg/kg	102		75 - 125		

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**Reported:** 07/19/2018 9:45  
**Project:** Roseland Creek Community Park  
**Project Number:** 1141800009  
**Project Manager:** Gabe Stivala

### Total Concentrations (TTLC)

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: B016238</b>		Used client sample: Y - Description: S-1, 06/01/2018 11:00								
Arsenic	DUP	1818064-01	3.2242	5.6348		mg/kg	54.4		20	Q01
	MS	1818064-01	3.2242	11.829	10.000	mg/kg		86.0	75 - 125	
	MSD	1818064-01	3.2242	12.026	10.000	mg/kg	1.6	88.0	20 75 - 125	
Lead	DUP	1818064-01	14.805	13.979		mg/kg	5.7		20	
	MS	1818064-01	14.805	101.02	100.00	mg/kg		86.2	75 - 125	
	MSD	1818064-01	14.805	97.775	100.00	mg/kg	3.3	83.0	20 75 - 125	
<b>QC Batch ID: B016239</b>		Used client sample: Y - Description: S-35, 05/31/2018 16:05								
Arsenic	DUP	1818064-21	4.0655	3.7165		mg/kg	9.0		20	Q03
	MS	1818064-21	4.0655	11.422	10.000	mg/kg		73.6	75 - 125	
	MSD	1818064-21	4.0655	11.198	10.000	mg/kg	2.0	71.3	20 75 - 125	
Lead	DUP	1818064-21	10.247	9.2817		mg/kg	9.9		20	
	MS	1818064-21	10.247	98.002	100.00	mg/kg		87.8	75 - 125	
	MSD	1818064-21	10.247	98.063	100.00	mg/kg	0.1	87.8	20 75 - 125	

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**Project Manager:** Gabe Stivala

**Notes And Definitions**

- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.
- A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
- A10 Detection and quantitation limits were raised due to matrix interference.
- Q01 Sample precision is not within the control limits.
- Q03 Matrix spike recovery(s) was(were) not within the control limits.
- S09 The surrogate recovery on the sample for this compound was not within the control limits.