



TECHNICAL MEMORANDUM

Date: December 16, 2019

To: Mr. Gary Engel
Airport Manager
Yolo County Airport
625 Court Street
Woodland, CA 95695

From: Tom Sullivan
Michael van den Enden, PG

Kleinfelder Project: 20202251.002A

**Subject: Soil Sampling Report & Assessment Summary
Proposed Borrow Source for Yolo County Airport Detention Basin
Teichert Aggregates Woodland Facility
35030 County Road 20
Woodland, CA 95695**

Dear Mr. Engel:

This report summarizes the results of discrete soil sampling activities conducted from a soil stockpile proposed for use as a borrow source for a future detention basin at the Yolo County Airport (YCA). The proposed borrow source is an approximate 17,000-cubic-yard soil stockpile located at the Teichert Aggregates Woodland Facility at 35030 County Road 20 in Woodland, California (Figure 1).

Sampling and analyses were conducted in accordance with the Department of Toxic Substances Control (DTSC) Information Advisory for Clean Imported Fill Material (Advisory) to evaluate the soil stockpile for use as a borrow source for the YCA detention basin. The soil analytical results were also compared to the San Francisco Bay Regional Water Quality Control Board (SFRWQCB) 2019 Tier 1 Environmental Screening Levels (ESLs) to determine if use of the soil as a borrow source would pose unacceptable risks to nearby residents, construction workers, or the environment.

FIELD ACTIVITIES

Soil Sampling

Kleinfelder was hired to collect soil samples from the approximate 17,000-cubic-yard stockpile located at the Teichert Aggregates Woodland Facility. Based on the DTSC Advisory, the number of samples required for a stockpile of more than 5,000 cubic yards is 12 samples for the

first 5,000 cubic yards plus one sample for each additional 1,000 cubic yards. Therefore, 24 soil samples were collected. The stockpile measured roughly 165 feet by 175 feet by 30 feet with sloped sides. According to Ray Prowl, the Teichert Plant Manager, the source of the stockpile was various road projects completed by Teichert.

Soil samples were collected on November 18, 2019. Due to the size of the soil stockpile, a large front-end loader was used to remove one bucket of soil from 20 locations around the perimeter of the stockpile on the east, south, and west sides. The loader could not navigate to the north side of the stockpile due to access limitations. Each bucket consisted of several cubic yards of soil. New stainless steel sampling sleeves were used to collect a soil sample from the piles of material removed by the front loader or the sidewall of the stockpile where the front loader had removed the material. A section on the north side of the stockpile was hand dug to expose a section of material and a sample was collected from this location. Three samples were collected from the top of the soil stockpile. The approximate locations of the stockpile and the soil samples are shown on Figure 2.

The soil samples were collected with hand sampling equipment, placed in stainless steel tubes and sealed with plastic caps and Teflon paper, labeled, and placed in a cooler with ice, and submitted under chain-of-custody control to California Laboratory Services (CLS), Sacramento, California for analyses based on site history and typical constituents found at similar sites.

Laboratory Analysis

Samples were analyzed for the following:

- CAM 17: California Assessment (CAM) 17 Metals by EPA Method 6020;
- Total Petroleum Hydrocarbons as gasoline (TPH-g), Total Petroleum Hydrocarbons as diesel (TPH-d), Total Petroleum Hydrocarbons as motor oil (TPH-mo), by EPA Method 8015 modified;
- OCPS and PCBs: Organochlorine pesticides (OCPs) and polychlorinated biphenyls (PCBs) by EPA Methods 8081A/8082;
- VOCs: Volatile organic compounds by EPA Method 8260B;
- Asbestos by polarized light microscopy (PLM) via EPA 600/R-9/116 with CARB 435 Preparation

Results were evaluated against Total Threshold Limit Concentrations (TTLCs). Waste is classified as hazardous when constituent concentrations exceed TTLCs. In addition, where concentrations exceed either ten times the Soluble Threshold Limit Concentration (STLC) or twenty times the Toxicity Characteristic Leaching Procedure (TCLP), additional analyses are required to evaluate potential for leaching, and results may require hazardous waste classification. Chromium results in all samples analyzed exceeded ten times the STLC, triggering additional analysis of chromium. A Deionized (DI) Water Waste Extraction Test (WET) was performed on all the samples to simulate leaching due to rainfall. The leachate from each sample was analyzed for chromium and motor oil. The leachate from the two samples with the highest TTLC concentration of chromium (SP-3 and SP-21) was also analyzed for hexavalent chromium by EPA Method 7199 to assess potential mobilization of hexavalent chromium.

Results were also evaluated against 2019 Tier I soil ESLs to assess human exposure. Copies of the chain-of-custody forms and analytical reports are included in Appendix A.

Results

Laboratory analytical results for the 24 discrete samples are summarized below. Discrete sampling results are tabulated in Table 1.

CAM 17 (Metals)

Discrete Sampling: Arsenic, barium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc were detected above the reporting limit in all samples. Mercury was detected in samples SP-1, SP-10, SP-17, and SP-20. Silver was detected in sample SP-21. Antimony, beryllium, cadmium, molybdenum, selenium, and thallium were not detected above the laboratory reporting limit for all the soil samples collected.

Concentrations of arsenic were reported in all samples ranging from 4.1 to 9.0 mg/kg. None of the reported concentrations exceed the TTLC or STLC times ten limits. Concentrations of arsenic were reported above the Tier 1 soil ESL (0.067 mg/kg) in all samples. Concentrations exceeded the Residential soil ESL. Naturally occurring arsenic is frequently observed at concentrations in excess of the Tier 1 soil ESL. Based on the Kearney Foundation of Soil Science, Division of Agriculture and Natural Resources, University of California's (Kearney Foundation) Background Concentrations of Trace and Major Elements in California Soils (Background Report), concentrations of naturally occurring arsenic were reported throughout California at concentrations ranging from 0.6 to 11 mg/kg in 50 soil samples collected throughout California. Arsenic concentrations reported in the stockpile were within this range indicating the arsenic observed may be naturally occurring. The YCA should consider preparing a Soil Management Plan to be implemented during construction of the proposed detention basin to protect construction workers from the arsenic present in the soil.

Concentrations of chromium in all soil samples exceeded the STLC times ten borings and additional testing was performed using a DI WET extraction. The extraction leachate for each sample was analyzed for chromium to determine the potential for mobilization of chromium due to leaching and all results were non-detect. Additionally, the leachate from the two samples with the highest TTLC concentrations for chromium (SP-3 and SP-21) were analyzed for the more toxic hexavalent chromium. Hexavalent chromium was not reported in either sample. All chromium sample results were reported below the Tier 1 soil ESL of 160 mg/kg, with the exception of sample SP-3 at 190 mg/kg. The Tier 1 soil ESL for chromium is based on terrestrial habitat protection levels. No residential, commercial, or construction worker ESLs are listed for chromium. Therefore, based on the non-detect DI WET leaching results for chromium, and the absence of a residential, commercial, or construction worker ESL, Kleinfelder concludes that the chromium observed in the stockpile samples does not pose an unacceptable risk.

Nickel was reported in all samples at concentrations ranging from 94 to 150 mg/kg and did not exceed the TTLC or STLC times ten limits. Concentrations of nickel exceeded the Tier 1 soil ESL of 86 mg/kg based on non-cancer risk to construction workers. Concentrations did not exceed the Residential soil ESL (820 mg/kg) or the Commercial soil ESL (11,000 mg/kg). According to the Kearney Foundation Background Report, naturally occurring concentrations of nickel throughout California range from 9 to 509 mg/kg. Concentrations reported in the samples collected from the stockpile were within naturally occurring ranges and may be naturally

occurring. The YCA should consider preparing a Soil Management Plan to be implemented during construction of the proposed detention basin to protect construction workers from the nickel present in the soil.

Vanadium was reported in all samples collected with concentrations ranging from 47 to 95 mg/kg. The reported concentrations are below the TTLC and STLC times ten concentrations. The reported concentrations exceed the Tier 1 soil ESL of 18 mg/kg which is based on terrestrial habitat levels. The concentrations are below the Residential soil ESL (390 mg/kg), commercial ESL (5,800 mg/kg), and Construction Worker ESL (470 mg/kg). Additionally, according to the Kearney Background Report, concentrations of naturally occurring vanadium varies between 39 and 288 mg/kg throughout California. Vanadium concentrations reported in the stockpile were within this range indicating the vanadium observed may be naturally occurring.

Petroleum (TPHg, TPHd, and TPHmo)

Gasoline and diesel were not detected above reporting limits in any of the samples. Motor oil was detected above reporting limits in all soil samples at concentrations ranging from 30 to 430 mg/kg. The concentrations of motor oil reported in the samples are below the Tier 1 soil ESL of 1,600 mg/kg. In order to assess the potential for the reported motor oil to leach from the soil and mobilize to groundwater, Kleinfelder requested that the lab analyze the DI WET leachate from each sample for motor oil. Motor oil was reported below laboratory detection limits in all leachate samples. Therefore, Kleinfelder concludes that the motor oil present in the proposed borrow source does not pose an environmental risk,

OCPs, PCBs, VOCS, and SVOCs

With the exception of sample SP-17, all samples were reported below laboratory detection limits for all OCPs, SVOCs, VOCs, and PCBs. The PCB Aroclor-1260 was reported at 41 ug/kg in sample SP-17 which is below the Tier 1 soil ESL of 230 ug/kg. No other PCBs were reported in sample SP-17. Because the concentration of Aroclor-1260 is below the ESL, there are no environmental risks associated with the detection of Aroclor-1260 in sample SP-17. All OCPs, SVOCs, and VOCs were reported below laboratory detection limits in sample SP-17. Based on the laboratory analytical reports, there are no environmental risks from OCPs, SVOCs, VOCs, and PCBs.

Asbestos

All soil samples collected were analyzed for asbestos by EMSL Analytical, Inc. Samples SP-5 and SP-15 were reported as "None Detected" for asbestos. The remaining samples were reported as "<0.25% Chrysolite." The California Air Resources Board (CARB) considers materials with more than 0.25% asbestos to be "Restricted Materials." Since asbestos was reported at less than 0.25% in all samples, the material in the stockpile is not considered to be a restricted material and can be used in an unrestricted manner.

CONCLUSIONS

In accordance with the DTSC Advisory, Kleinfelder collected 24 soil samples from the approximate 17,000-cubic-yard stockpile located at the Teichert Aggregates Woodland Facility. The samples were collected on November 18, 2019 and analyzed as specified in the DTSC Advisory.

Metal concentrations do not exceed the TTLC limits; however, concentrations of chromium in all samples exceed the STLC times ten level. A DI WET extraction was performed on all samples and the leachate chromium was reported below laboratory detection limits in all leachate samples. Therefore, the soil is not classified as a hazardous waste. The leachate from the two samples with the highest TTLC chromium results (SP-13 and SP-21) was analyzed for hexavalent chromium. Hexavalent chromium was not detected in either of the leachate samples analyzed and does not pose a risk to migrate into groundwater.

Concentrations of arsenic, nickel, and vanadium were reported above the Tier 1 soil ESL in all samples analyzed. However, concentrations of all constituents appear to be within naturally occurring levels. Arsenic and nickel concentrations were reported above the ESL for construction workers. The YCA should consider preparing a Soil Management Plan to be implemented during construction of the proposed detention basin to protect construction workers from the arsenic and nickel present in the soil.

Motor oil was reported in all soil samples, but the reported concentrations are below the Tier 1 ESL. The DI WET leachate from each sample was analyzed for motor oil and all samples were non-detect. Therefore, the motor oil reported in the stockpile does not pose an environmental risk. Gasoline and diesel were not reported in any samples.

Aroclor-1260 was reported in one sample at 41 ug/kg which is below the Tier1 ESL and does not pose an environmental risk. PCBs were not reported in any other samples collected. OCPs, SVOCs, and VOCs, were not reported in any soil samples collected.

RECOMMENDATIONS

Results indicate that the soil stockpile at the Teichert Aggregates Woodland Facility is an acceptable borrow source for the proposed detention basin at the YCA. Based on the results, concentrations of arsenic and nickel exceed the ESL for construction workers. While the concentrations reported may be from naturally occurring sources, the YCA should determine if a soil management plan is necessary to protect worker health during construction of the detention basin.

LIMITATIONS

Kleinfelder offers various levels of investigative and engineering services to suit the varying needs of different clients. It should be recognized that definition and evaluation of geologic and environmental conditions are a difficult and inexact science. Acceptance of this report will indicate that YCA has reviewed the document and determined that it does not need or want a greater level of service than provided.

During the course of the performance of Kleinfelder's services, hazardous materials may have been discovered. Kleinfelder assumes no responsibility or liability whatsoever for any claim, loss of property value, damage, or injury that results from preexisting hazardous materials being encountered or present on the project site, or from the discovery of such hazardous materials. Nothing contained in this report should be construed or interpreted as requiring Kleinfelder to assume the status of an owner, operator, or generator, or person who arranges for disposal, transport, storage or treatment of hazardous materials within the meaning of any governmental statute, regulation or order. YCA is solely responsible for directing notification of all governmental agencies, and the public at large, of the existence, release, treatment or disposal

of any hazardous materials observed at the project site, either before or during performance of Kleinfelder's services. YCA is responsible for directing all arrangements to lawfully store, treat, recycle, dispose, or otherwise handle hazardous materials and samples resulting from Kleinfelder's services.

We thank you for the opportunity to provide Kleinfelder's professional environmental services.

Sincerely,

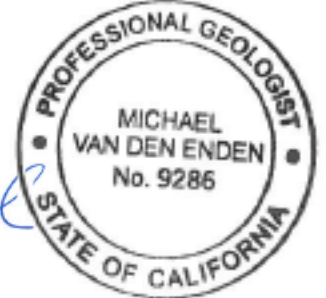
KLEINFELDER



Tom Sullivan
Project Manager



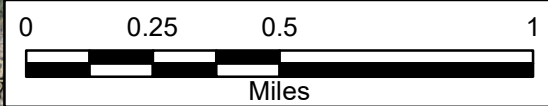
Michael van den Enden, PG No. 9286
Principal Geologist
Environmental Group Manager



Attachments:


- Figure 1 Site Location Map
- Figure 2 Stockpile Sample Location Map
- Table 1 Summary of Sampling Results
- Appendix A Chain of Custody Forms and Analytical Laboratory Reports

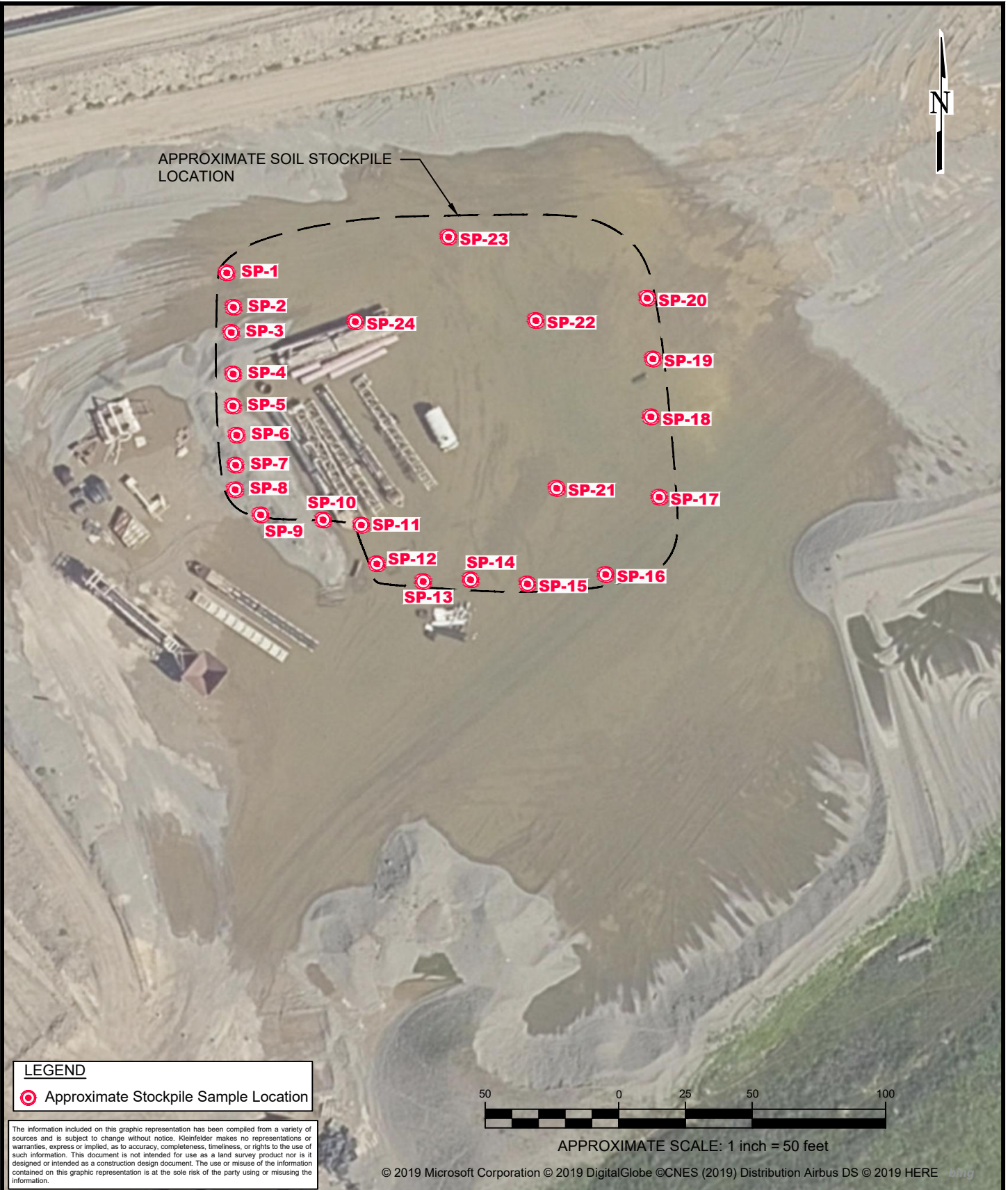
FIGURE



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	PROJECT NO. 20202251.002A	SITE LOCATION MAP	FIGURE 1
	DRAWN: 12/11/2019		
	DRAWN BY: D. Ross	Teichert Aggregates Woodland Facility 35030 County Road 20 Woodland, California	
	CHECKED BY: T. Sullivan		
FILE NAME: 20202251-2_SVM.mxd			



PROJECT NO.	20202251.002A
DRAWN:	12/11/2019
DRAWN BY:	D. Ross
CHECKED BY:	T. Sullivan
FILE NAME:	20202251_2-F2.dwg

STOCKPILE SAMPLE LOCATION MAP

Teichert Aggregates Woodland Facility
35030 County Road 20
Woodland, California

FIGURE

2

TABLES

Table 1
Summary of Stockpile Sampling Results
Yolo County Detention Basin Borrow Source
35030 Co Rd 20, Woodland, CA 95695
Kleinfelder Project Number: 20202251.002A

Sample ID	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium DI WET	Cr 6+ DI WET	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Motor Oil	Motor Oil DI WET	Diesel	TPH-g	OCPs ⁴	SVOCs ⁴	VOCs ⁴	PCBs ⁴	Asbestos
Tier 1 ESL		11	0.067	390	5	1.9	160		0.3	23	180	32	13	6.9	86	2.4	25	0.78	18	340	1,600		260	100	Varies	Varies	Varies	230	N/A
Residential ESL		11	0.067	15,000	16	78	Not established		0.3	23	3,100	80	13	390	820	390	390	0.78	390	23,000	12,000		260	430	Varies	Varies	Varies	230	N/A
Commercial ESL		160	0.31	220,000	230	1,100	Not established		6.2	350	47,000	320	190	5,800	11,000	5,800	5,800	12	5,800	350,000	180,000		1,200	2,000	Varies	Varies	Varies	940	N/A
Construction Worker ESL		50	0.98	3,000	27	51	Not established		2.8	28	14,000	160	44	1,800	86	1,700	1,800	3.5	470	110,000	54,000		1,100	1,800	Varies	Varies	Varies	5,500.0	N/A
TTL (mg/kg) ¹		500	500	10,000	75	100	2,500		--	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000									
TCLP (mg/L) ²		--	5	100	--	1	5		--	--	--	5	0.20	--	--	1	5	--	--	--									
STLC (mg/L) ³		15	5	100	0.75	1	5		--	80	25	5	0.20	350	20	1	5	7	24	250									
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	ug/kg	ug/kg	ug/kg	ug/kg	%
SP-1	11/18/2019	ND (2.5)	5.9	160	ND (1.0)	ND (1.0)	72	ND (<0.020)	---	16	27	8.3	0.10	ND (1.0)	120	ND (5.0)	ND (2.0)	ND (2.0)	64	60	55	ND (<0.050)	ND (<1.0)	ND (<0.20)	ND (varies)	ND (varies)	ND (varies)	ND (<20)	<0.25 (Chrysolite)
SP-2	11/18/2019	ND (2.5)	8.1	180	ND (1.0)	ND (1.0)	95	ND (<0.020)	---	18	32	12	ND (0.10)	ND (1.0)	150	ND (5.0)	ND (2.0)	ND (2.0)	80	79	30	ND (<0.050)	ND (<1.0)	ND (<0.20)	ND (varies)	ND (varies)	ND (varies)	ND (<20)	<0.25 (Chrysolite)
SP-3	11/18/2019	ND (2.5)	6.6	170	ND (1.0)	ND (1.0)	190	ND (<0.020)	ND (<0.0010)	17	30	10	ND (0.10)	ND (1.0)	140	ND (5.0)	ND (2.0)	ND (2.0)	66	70	77	ND (<0.050)	ND (<1.0)	ND (<0.20)	ND (varies)	ND (varies)	ND (varies)	ND (<20)	<0.25 (Chrysolite)
SP-4	11/18/2019	ND (2.5)	6.9	170	ND (1.0)	ND (1.0)	77	ND (<0.020)	---	17	28	8	ND (0.10)	ND (1.0)	140	ND (5.0)	ND (2.0)	ND (2.0)	73	69	170	ND (<0.050)	ND (<1.0)	ND (<0.20)	ND (varies)	ND (varies)	ND (varies)	ND (<20)	<0.25 (Chrysolite)
SP-5	11/18/2019	ND (2.5)	6.5	180	ND (1.0)	ND (1.0)	80	ND (<0.020)	---	18	30	11	ND (0.10)	ND (1.0)	140	ND (5.0)	ND (2.0)	ND (2.0)	66	67	270	ND (<0.050)	ND (<1.0)	ND (<0.20)	ND (varies)	ND (varies)	ND (varies)	ND (<20)	None Detected
SP-6	11/18/2019	ND (2.5)	5.7	160	ND (1.0)	ND (1.0)	75	ND (<0.020)	---	16	26	8.2	ND (0.10)	ND (1.0)	130	ND (5.0)	ND (2.0)	ND (2.0)	64	61	46	ND (<0.050)	ND (<1.0)	ND (<0.20)	ND (varies)	ND (varies)	ND (varies)	ND (<20)	<0.25 (Chrysolite)
SP-7	11/18/2019	ND (2.5)	5.6	220	ND (1.0)	ND (1.0)	76	ND (<0.020)	---	15	26	8.7	ND (0.10)	ND (1.0)	130	ND (5.0)	ND (2.0)	ND (2.0)	63	59	53	ND (<0.050)	ND (<1.0)	ND (<0.20)	ND (varies)	ND (varies)	ND (varies)	ND (<20)	<0.25 (Chrysolite)
SP-8	11/18/2019	ND (2.5)	7.0	170	ND (1.0)	ND (1.0)	79	ND (<0.020)	---	17	29	11	ND (0.10)	ND (1.0)	130	ND (5.0)	ND (2.0)	ND (2.0)	70	74	59	ND (<0.050)	ND (<1.0)	ND (<0.20)	ND (varies)	ND (varies)	ND (varies)	ND (<20)	<0.25 (Chrysolite)
SP-9	11/18/2019	ND (2.5)	6.9	190	ND (1.0)	ND (1.0)	110	ND (<0.020)	---	18	30	11	ND (0.10)	ND (1.0)	140	ND (5.0)	ND (2.0)	ND (2.0)	72	70	86	ND (<0.050)	ND (<1.0)	ND (<0.20)	ND (varies)	ND (varies)	ND (varies)	ND (<20)	<0.25 (Chrysolite)
SP-10	11/18/2019	ND (2.5)	6.6	190	ND (1.0)	ND (1.0)	92	ND (<0.020)	---	18	30	8.8	1.6	ND (1.0)	140	ND (5.0)	ND (2.0)	ND (2.0)	71	63	71	ND (<0.050)	ND (<1.0)	ND (<0.20)	ND (varies)	ND (varies)	ND (varies)	ND (<20)	<0.25 (Chrysolite)
SP-11	11/18/2019	ND (2.5)	4.1	110	ND (1.0)	ND (1.0)	76	ND (<0.020)	---	12	21	9.4	ND (0.10)	ND (1.0)	94	ND (5.0)	ND (2.0)	ND (2.0)	47	48	240	ND (<0.050)	ND (<1.0)	ND (<0.20)	ND (varies)	ND (varies)	ND (varies)	ND (<20)	<0.25 (Chrysolite)
SP-12	11/18/2019	ND (2.5)	6.1	140	ND (1.0)	ND (1.0)	120	ND (<0.020)	---	16	28	8.1	ND (0.10)	ND (1.0)	150	ND (5.0)	ND (2.0)	ND (2.0)	58	65	170	ND (<0.050)	ND (<1.0)	ND (<0.20)	ND (varies)	ND (varies)	ND (varies)	ND (<20)	<0.25 (Chrysolite)
SP-13	11/18/2019	ND (2.5)	6.5	160	ND (1.0)	ND (1.0)	80	ND (<0.020)	---	17	31	7.3	ND (0.10)	ND (1.0)	140	ND (5.0)	ND (2.0)	ND (2.0)	69	67	430	ND (<0.050)	ND (<1.0)	ND (<0.20)	ND (varies)	ND (varies)	ND (varies)	ND (<20)	<0.25 (Chrysolite)
SP-14	11/18/2019	ND (2.5)	9.0	190	ND (1.0)	ND (1.0)	92	ND (<0.020)	---	18	32	10	ND (0.10)	ND (1.0)	150	ND (5.0)	ND (2.0)	ND (2.0)	95	94	99	ND (<0.050)	ND (<1.0)	ND (<0.20)	ND (varies)	ND (varies)	ND (varies)	ND (<20)	<0.25 (Chrysolite)
SP-15	11/18/2019	ND (2.5)	6.9	150	ND (1.0)	ND (1.0)	81	ND (<0.020)	---	15	27	9.2	ND (0.10)	ND (1.0)	120	ND (5.0)	ND (2.0)	ND (2.0)	66	69	58	ND (<0.050)	ND (<1.0)	ND (<0.20)	ND (varies)	ND (varies)	ND (varies)	ND (<20)	None Detected
SP-16	11/18/2019	ND (2.5)	5.5	140	ND (1.0)	ND (1.0)	71	ND (<0.020)	---	16	26	10	ND (0.10)	ND (1.0)	120	ND (5.0)	ND (2.0)	ND (2.0)	65	63	85	ND (<0.050)	ND (<1.0)	ND (<0.20)	ND (varies)	ND (varies)	ND (varies)	ND (<20)	<0.25 (Chrysolite)
SP-17	11/18/2019	ND (2.5)	6.8	160	ND (1.0)	ND (1.0)	79	ND (<0.020)	---	17	27	9.5	0.95	ND (1.0)	120	ND (5.0)	ND (2.0)	ND (2.0)	80	74	96	ND (<0.050)	ND (<1.0)	ND (<0.20)	ND (varies)	ND (varies)	ND (varies)	41 ⁵	<0.25 (Chrysolite)
SP-18	11/18/2019	ND (2.5)	7.2	150	ND (1.0)	ND (1.0)	65	ND (<0.020)	---	14	24	8.7	ND (0.10)	ND (1.0)	110	ND (5.0)	ND (2.0)	ND (2.0)	65	68	340	ND (<0.050)	ND (<1.0)	ND (<0.20)	ND (varies)	ND (varies)	ND (varies)	ND (<20)	<0.25 (Chrysolite)
SP-19	11/18/2019	ND (2.5)	7.2	170	ND (1.0)	ND (1.0)	80	ND (<0.020)	---	16	30	11	ND (0.10)	ND (1.0)	130	ND (5.0)	ND (2.0)	ND (2.0)	72	71	69	ND (<0.050)	ND (<1.0)	ND (<0.20)	ND (varies)	ND (varies)	ND (varies)	ND (<20)	<0.25 (Chrysolite)
SP-20	11/18/2019	ND (2.5)	7.6	240	ND (1.0)	ND (1.0)	83	ND (<0.020)	---	17	29	13	0.11	ND (1.0)	140	ND (5.0)	ND (2.0)	ND (2.0)	77	78	420	ND (<0.050)	ND (<1.0)	ND (<0.20)	ND (varies)	ND (varies)	ND (varies)	ND (<20)	<0.25 (Chrysolite)
SP-21	11/18/2019	ND (2.5)	8.7	190	ND (1.0)	ND (1.0)	130	ND (<0.020)	ND (<0.0010)	17	61	8.1	ND (0.10)	ND (1.0)	120	ND (5.0)	2.8	ND (2.0)	64	75	250	ND (<0.050)	ND (<1.0)	ND (<0.20)	ND (varies)	ND (varies)	ND (varies)	ND (<20)	<0.25 (Chrysolite)
SP-22	11/18/2019	ND (2.5)	6.9	160	ND (1.0)	ND (1.0)	87	ND (<0.020)	---	15	56	7.5	ND (0.10)	ND (1.0)	120	ND (5.0)	ND (2.0)	ND (2.0)	58	65	230	ND (<0.050)	ND (<1.0)	ND (<0.20)	ND (varies)	ND (varies)	ND (varies)	ND (<20)	<0.25 (Chrysolite)
SP-23	11/18/2019	ND (2.5)	6.3	160	ND (1.0)	ND (1.0)	94	ND (<0.020)	---	15	55	9.9	ND (0.10)	ND (1.0)	120	ND (5.0)	ND (2.0)	ND (2.0)	59	66	120	ND (<0.050)	ND (<1.0)	ND (<0.20)	ND (varies)	ND (varies)	ND (varies)	ND (<20)	<0.25 (Chrysolite)
SP-24	11/18/2019	ND (2.5)	7.2	200	ND (1.0)	ND (1.0)	91	ND (<0.020)	---	16	56	13	ND (0.10)	ND (1.0)	140	ND (5.0)	ND (2.0)	ND (2.0)	60	68	97	ND (<0.050)	ND (<1.0)	ND (<0.20)	ND (varies)	ND (varies)	ND (varies)	ND (<20)	<0.25 (Chrysolite)

Notes:

mg/kg: Milligrams per kilogram (parts per million)

Cr 6+: Hexavalent Chromium

ug/L: Micrograms per liter

mg/L: Milligrams per liter

ND(RL): Not detected at or above laboratory reporting limit. Reporting Limit (RL) shown in parentheses.

RL: Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration).

1 Total Threshold Limit Concentrations

2 Toxicity Characteristic Leaching Procedure

3 STLC based on California Code of Regulations Title 22 listing

4 Organochlorine Pesticides (OCPs), Volatile Organic Compounds (VOCs) Semi VOCs (SVOCs) and Polychlorinated Biphenyls (PCBs) include multiple constituents.

5 Aroclor 1260 was reported at the concentration listed. All remaining PCBs were reported at ND (<20)

Font: Bold Red Concentration exceeds 10x STLC

Shading: Red Concentration exceeds Tier 1 ESL

APPENDIX A
CHAIN OF CUSTODY FORMS AND ANALYTICAL LABORATORY REPORTS



CALIFORNIA LABORATORY SERVICES

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November 25, 2019

CLS Work Order #: 19K0910
COC #: 461037 & 880876

Mike VanDenEnden
Kleinfelder (Sacramento)
2882 Prospect Park Dr. suite 200
Rancho Cordova, CA 95742

Project Name: Yolo County Detention Basin

Enclosed are the results of analyses for samples received by the laboratory on 11/18/19 16:30. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director

CA SWRCB ELAP Accreditation/Registration number 1233



COC# 461037

19K0910

Project No 20202251.002A Task 01		Project Name Yolo County Detention Basin			No. of Containers	Type of Containers	Analysis										Receiving Lab: CLS					
L.P. No.	Sampler's Signature/Number			Date MM/DD/YY			Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	TPHg, TPHd, TPHmo (8015M)	VOCs (8260B)	C-AM 17 Metals (6007000)	Organochlorine pesticides (8081A)	PCBs (8082)	Asbestos							Instructions/Remarks Standard 5-day TAT
1	11/18/19	0841	SP-1		Soil	1																
2	11/18/19	0844	SP-2	Soil	1	Sleeve	X	X	X	X	X	X										
3	11/18/19	0846	SP-3	Soil	1	Sleeve	X	X	X	X	X	X										
4	11/18/19	0848	SP-4	Soil	1	Sleeve	X	X	X	X	X	X										
5	11/18/19	0850	SP-5	Soil	1	Sleeve	X	X	X	X	X	X										
6	11/18/19	0852	SP-6	Soil	1	Sleeve	X	X	X	X	X	X										
7	11/18/19	0856	SP-7	Soil	1	Sleeve	X	X	X	X	X	X										
8	11/18/19	0858	SP-8	Soil	1	Sleeve	X	X	X	X	X	X										
9	11/18/19	0900	SP-9	Soil	1	Sleeve	X	X	X	X	X	X										
10	11/18/19	0902	SP-10	Soil	1	Sleeve	X	X	X	X	X	X										
11	11/18/19	0903	SP-11	Soil	1	Sleeve	X	X	X	X	X	X										
12	11/18/19	0905	SP-12	Soil	1	Sleeve	X	X	X	X	X	X										
13	11/18/19	0908	SP-13	Soil	1	Sleeve	X	X	X	X	X	X										
14	11/18/19	0910	SP-14	Soil	1	Sleeve	X	X	X	X	X	X										
15	11/18/19	0912	SP-15	Soil	1	Sleeve	X	X	X	X	X	X										
16	11/18/19	0913	SP-16	Soil	1	Sleeve	X	X	X	X	X	X										
Relinquished By: <i>[Signature]</i>		Date/Time: 11/18/19 1630		Received By: <i>[Signature]</i>		Date/Time: 11/19/19 1030		Instructions/Remarks Email to: mvandenenden@kleinfelder.com										Send Results To: Kleinfelder 2882 Prospect Park, ste. 200 Rancho Cordova, CA 95670				
Relinquished By:		Date/Time:		Received By:		Date/Time: 4/41																
Relinquished By:		Date/Time:		Received By:		Date/Time:																



COC# 880876

1A00910

Project No 20202251.002A Task 01		Project Name Yolo County Detention Basin			No. of Containers	Type of Containers	Analysis										Receiving Lab CLS
L.P. No.		Sampler's Signature/Number					TPHg, TPHd, TPHmo (8015M)	VOCs (8260B)	CAM 17 Metals (6007000)	Organochlorine pesticides (8081A)	PCBs (8082)	Asbestos					
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix														
17	11/18/19	0915	SP-17	Soil	1	Sleeve	X	X	X	X	X	X					
18	11/18/19	0917	SP-18	Soil	1	Sleeve	X	X	X	X	X	X					
19	11/18/19	0919	SP-19	Soil	1	Sleeve	X	X	X	X	X	X					
20	11/18/19	0921	SP-20	Soil	1	Sleeve	X	X	X	X	X	X					
21	11/18/19	0924	SP-21	Soil	1	Sleeve	X	X	X	X	X	X					
22	11/18/19	0927	SP-22	Soil	1	Sleeve	X	X	X	X	X	X					
23	11/18/19	0930	SP-23	Soil	1	Sleeve	X	X	X	X	X	X					
24	11/18/19	0933	SP-24	Soil	1	Sleeve	X	X	X	X	X	X					
25																	
26																	
27																	
28																	
29																	
30																	
31																	
32																	
Relinquished By <i>[Signature]</i>		Date/Time 11/18/19 1630	Received By <i>[Signature]</i>		11/18/19		Instructions/Remarks Email to: mvandenenden@kleinfelder.com										Send Results To: Kleinfelder 2882 Prospect Park, ste. 200 Rancho Cordova, CA 95670
Relinquished By		Date/Time	Received By		11/30												
Relinquished By		Date/Time	Received By		11/41												



CALIFORNIA LABORATORY SERVICES

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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K0910 COC #: 461037 & 880876
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CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SP-1 (19K0910-01) Soil Sampled: 11/18/19 08:41 Received: 11/18/19 16:30

Antimony	ND	2.5	mg/kg	1	1909790	11/20/19	11/20/19	EPA 6010B	
Arsenic	5.9	2.0	"	10	"	"	11/21/19	EPA 6020	
Barium	160	1.0	"	1	"	"	11/20/19	EPA 6010B	
Beryllium	ND	1.0	"	10	"	"	11/21/19	EPA 6020	
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	72	1.0	"	1	"	"	11/20/19	EPA 6010B	
Cobalt	16	1.0	"	"	"	"	"	"	
Copper	27	1.0	"	"	"	"	"	"	
Lead	8.3	2.5	"	"	"	"	"	"	
Mercury	0.10	0.10	"	"	1909793	11/20/19	11/20/19	EPA 7471A	
Molybdenum	ND	1.0	"	"	1909790	11/20/19	11/20/19	EPA 6010B	
Nickel	120	1.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	10	"	"	11/21/19	EPA 6020	
Silver	ND	2.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	64	2.0	"	"	"	"	"	"	
Zinc	60	5.0	"	"	"	"	"	"	

SP-2 (19K0910-02) Soil Sampled: 11/18/19 08:44 Received: 11/18/19 16:30

Antimony	ND	2.5	mg/kg	1	1909790	11/20/19	11/20/19	EPA 6010B	
Arsenic	8.1	2.0	"	10	"	"	11/21/19	EPA 6020	
Barium	180	1.0	"	1	"	"	11/20/19	EPA 6010B	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	1.0	"	10	"	"	11/21/19	EPA 6020	
Chromium	95	1.0	"	1	"	"	11/20/19	EPA 6010B	
Cobalt	18	1.0	"	"	"	"	"	"	
Copper	32	1.0	"	"	"	"	"	"	
Lead	12	2.5	"	"	"	"	"	"	
Mercury	ND	0.10	"	"	1909793	11/20/19	11/21/19	EPA 7471A	
Molybdenum	ND	1.0	"	"	1909790	11/20/19	11/20/19	EPA 6010B	
Nickel	150	1.0	"	"	"	"	"	"	



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CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SP-2 (19K0910-02) Soil Sampled: 11/18/19 08:44 Received: 11/18/19 16:30

Selenium	ND	5.0	mg/kg	10	1909790	"	11/21/19	EPA 6020	
Silver	ND	2.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	80	2.0	"	"	"	"	"	"	
Zinc	79	5.0	"	"	"	"	"	"	

SP-3 (19K0910-03) Soil Sampled: 11/18/19 08:46 Received: 11/18/19 16:30

Antimony	ND	2.5	mg/kg	1	1909790	11/20/19	11/20/19	EPA 6010B	
Arsenic	6.6	2.0	"	10	"	"	11/21/19	EPA 6020	
Barium	170	1.0	"	1	"	"	11/20/19	EPA 6010B	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	1.0	"	10	"	"	11/21/19	EPA 6020	
Chromium	190	1.0	"	1	"	"	11/20/19	EPA 6010B	
Cobalt	17	1.0	"	"	"	"	"	"	
Copper	30	1.0	"	"	"	"	"	"	
Lead	10	2.5	"	"	"	"	"	"	
Mercury	ND	0.10	"	"	1909793	11/20/19	11/21/19	EPA 7471A	
Molybdenum	ND	1.0	"	"	1909790	11/20/19	11/20/19	EPA 6010B	
Nickel	140	1.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	10	"	"	11/21/19	EPA 6020	
Silver	ND	2.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	66	2.0	"	"	"	"	"	"	
Zinc	70	5.0	"	"	"	"	"	"	



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CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SP-4 (19K0910-04) Soil Sampled: 11/18/19 08:48 Received: 11/18/19 16:30

Antimony	ND	2.5	mg/kg	1	1909790	11/20/19	11/20/19	EPA 6010B	
Arsenic	6.9	2.0	"	10	"	"	11/21/19	EPA 6020	
Barium	170	1.0	"	1	"	"	11/20/19	EPA 6010B	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	1.0	"	10	"	"	11/21/19	EPA 6020	
Chromium	77	1.0	"	1	"	"	11/20/19	EPA 6010B	
Cobalt	17	1.0	"	"	"	"	"	"	
Copper	28	1.0	"	"	"	"	"	"	
Lead	8.0	2.5	"	"	"	"	"	"	
Mercury	ND	0.10	"	"	1909793	11/20/19	11/21/19	EPA 7471A	
Molybdenum	ND	1.0	"	"	1909790	11/20/19	11/20/19	EPA 6010B	
Nickel	140	1.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	10	"	"	11/21/19	EPA 6020	
Silver	ND	2.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	73	2.0	"	"	"	"	"	"	
Zinc	69	5.0	"	"	"	"	"	"	

SP-5 (19K0910-05) Soil Sampled: 11/18/19 08:50 Received: 11/18/19 16:30

Antimony	ND	2.5	mg/kg	1	1909790	11/20/19	11/20/19	EPA 6010B	
Arsenic	6.5	2.0	"	10	"	"	11/21/19	EPA 6020	
Barium	180	1.0	"	1	"	"	11/20/19	EPA 6010B	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	1.0	"	10	"	"	11/21/19	EPA 6020	
Chromium	80	1.0	"	1	"	"	11/20/19	EPA 6010B	
Cobalt	18	1.0	"	"	"	"	"	"	
Copper	30	1.0	"	"	"	"	"	"	
Lead	11	2.5	"	"	"	"	"	"	
Mercury	ND	0.10	"	"	1909793	11/20/19	11/21/19	EPA 7471A	
Molybdenum	ND	1.0	"	"	1909790	11/20/19	11/20/19	EPA 6010B	
Nickel	140	1.0	"	"	"	"	"	"	



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CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SP-5 (19K0910-05) Soil Sampled: 11/18/19 08:50 Received: 11/18/19 16:30

Selenium	ND	5.0	mg/kg	10	1909790	"	11/21/19	EPA 6020	
Silver	ND	2.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	66	2.0	"	"	"	"	"	"	
Zinc	67	5.0	"	"	"	"	"	"	

SP-6 (19K0910-06) Soil Sampled: 11/18/19 08:52 Received: 11/18/19 16:30

Antimony	ND	2.5	mg/kg	1	1909790	11/20/19	11/20/19	EPA 6010B	
Arsenic	5.7	2.0	"	10	"	"	11/21/19	EPA 6020	
Barium	160	1.0	"	1	"	"	11/20/19	EPA 6010B	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	1.0	"	10	"	"	11/21/19	EPA 6020	
Chromium	75	1.0	"	1	"	"	11/20/19	EPA 6010B	
Cobalt	16	1.0	"	"	"	"	"	"	
Copper	26	1.0	"	"	"	"	"	"	
Lead	8.2	2.5	"	"	"	"	"	"	
Mercury	ND	0.10	"	"	1909793	11/20/19	11/21/19	EPA 7471A	
Molybdenum	ND	1.0	"	"	1909790	11/20/19	11/20/19	EPA 6010B	
Nickel	130	1.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	10	"	"	11/21/19	EPA 6020	
Silver	ND	2.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	64	2.0	"	"	"	"	"	"	
Zinc	61	5.0	"	"	"	"	"	"	



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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K0910 COC #: 461037 & 880876
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CAM 17 Metals

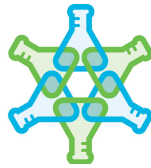
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SP-7 (19K0910-07) Soil Sampled: 11/18/19 08:56 Received: 11/18/19 16:30

Antimony	ND	2.5	mg/kg	1	1909790	11/20/19	11/20/19	EPA 6010B	
Arsenic	5.6	2.0	"	10	"	"	11/21/19	EPA 6020	
Barium	220	1.0	"	1	"	"	11/20/19	EPA 6010B	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	1.0	"	10	"	"	11/21/19	EPA 6020	
Chromium	76	1.0	"	1	"	"	11/20/19	EPA 6010B	
Cobalt	15	1.0	"	"	"	"	"	"	
Copper	26	1.0	"	"	"	"	"	"	
Lead	8.7	2.5	"	"	"	"	"	"	
Mercury	ND	0.10	"	"	1909793	11/20/19	11/21/19	EPA 7471A	
Molybdenum	ND	1.0	"	"	1909790	11/20/19	11/20/19	EPA 6010B	
Nickel	130	1.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	10	"	"	11/21/19	EPA 6020	
Silver	ND	2.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	63	2.0	"	"	"	"	"	"	
Zinc	59	5.0	"	"	"	"	"	"	

SP-8 (19K0910-08) Soil Sampled: 11/18/19 08:58 Received: 11/18/19 16:30

Antimony	ND	2.5	mg/kg	1	1909790	11/20/19	11/20/19	EPA 6010B	
Arsenic	7.0	2.0	"	10	"	"	11/21/19	EPA 6020	
Barium	170	1.0	"	1	"	"	11/20/19	EPA 6010B	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	1.0	"	10	"	"	11/21/19	EPA 6020	
Chromium	79	1.0	"	1	"	"	11/20/19	EPA 6010B	
Cobalt	17	1.0	"	"	"	"	"	"	
Copper	29	1.0	"	"	"	"	"	"	
Lead	11	2.5	"	"	"	"	"	"	
Mercury	ND	0.10	"	"	1909793	11/20/19	11/21/19	EPA 7471A	
Molybdenum	ND	1.0	"	"	1909790	11/20/19	11/20/19	EPA 6010B	
Nickel	130	1.0	"	"	"	"	"	"	



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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K0910 COC #: 461037 & 880876
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CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SP-8 (19K0910-08) Soil Sampled: 11/18/19 08:58 Received: 11/18/19 16:30

Selenium	ND	5.0	mg/kg	10	1909790	"	11/21/19	EPA 6020	
Silver	ND	2.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	70	2.0	"	"	"	"	"	"	
Zinc	74	5.0	"	"	"	"	"	"	

SP-9 (19K0910-09) Soil Sampled: 11/18/19 09:00 Received: 11/18/19 16:30

Antimony	ND	2.5	mg/kg	1	1909790	11/20/19	11/20/19	EPA 6010B	
Arsenic	6.9	2.0	"	10	"	"	11/21/19	EPA 6020	
Barium	190	1.0	"	1	"	"	11/20/19	EPA 6010B	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	1.0	"	10	"	"	11/21/19	EPA 6020	
Chromium	110	1.0	"	1	"	"	11/20/19	EPA 6010B	
Cobalt	18	1.0	"	"	"	"	"	"	
Copper	30	1.0	"	"	"	"	"	"	
Lead	11	2.5	"	"	"	"	"	"	
Mercury	ND	0.10	"	"	1909793	11/20/19	11/21/19	EPA 7471A	
Molybdenum	ND	1.0	"	"	1909790	11/20/19	11/20/19	EPA 6010B	
Nickel	140	1.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	10	"	"	11/21/19	EPA 6020	
Silver	ND	2.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	72	2.0	"	"	"	"	"	"	
Zinc	70	5.0	"	"	"	"	"	"	



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CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-10 (19K0910-10) Soil Sampled: 11/18/19 09:02 Received: 11/18/19 16:30									
Antimony	ND	2.5	mg/kg	1	1909790	11/20/19	11/20/19	EPA 6010B	
Arsenic	6.6	2.0	"	10	"	"	11/21/19	EPA 6020	
Barium	190	1.0	"	1	"	"	11/20/19	EPA 6010B	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	1.0	"	10	"	"	11/21/19	EPA 6020	
Chromium	92	1.0	"	1	"	"	11/20/19	EPA 6010B	
Cobalt	18	1.0	"	"	"	"	"	"	
Copper	30	1.0	"	"	"	"	"	"	
Lead	8.8	2.5	"	"	"	"	"	"	
Mercury	1.6	1.0	"	10	1909793	11/20/19	11/21/19	EPA 7471A	
Molybdenum	ND	1.0	"	1	1909790	11/20/19	11/20/19	EPA 6010B	
Nickel	140	1.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	10	"	"	11/21/19	EPA 6020	
Silver	ND	2.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	71	2.0	"	"	"	"	"	"	
Zinc	63	5.0	"	"	"	"	"	"	
SP-11 (19K0910-11) Soil Sampled: 11/18/19 09:03 Received: 11/18/19 16:30									
Antimony	ND	2.5	mg/kg	1	1909790	11/20/19	11/20/19	EPA 6010B	
Arsenic	4.1	2.0	"	10	"	"	11/21/19	EPA 6020	
Barium	110	1.0	"	1	"	"	11/20/19	EPA 6010B	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	1.0	"	10	"	"	11/21/19	EPA 6020	
Chromium	76	1.0	"	1	"	"	11/20/19	EPA 6010B	
Cobalt	12	1.0	"	"	"	"	"	"	
Copper	21	1.0	"	"	"	"	"	"	
Lead	9.4	2.5	"	"	"	"	"	"	
Mercury	ND	0.10	"	"	1909793	11/20/19	11/21/19	EPA 7471A	
Molybdenum	ND	1.0	"	"	1909790	11/20/19	11/20/19	EPA 6010B	
Nickel	94	1.0	"	"	"	"	"	"	



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CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SP-11 (19K0910-11) Soil Sampled: 11/18/19 09:03 Received: 11/18/19 16:30

Selenium	ND	5.0	mg/kg	10	1909790	"	11/21/19	EPA 6020	
Silver	ND	2.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	47	2.0	"	"	"	"	"	"	
Zinc	48	5.0	"	"	"	"	"	"	

SP-12 (19K0910-12) Soil Sampled: 11/18/19 09:05 Received: 11/18/19 16:30

Antimony	ND	2.5	mg/kg	1	1909790	11/20/19	11/20/19	EPA 6010B	
Arsenic	6.1	2.0	"	10	"	"	11/21/19	EPA 6020	
Barium	140	1.0	"	1	"	"	11/20/19	EPA 6010B	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	1.0	"	10	"	"	11/21/19	EPA 6020	
Chromium	120	1.0	"	1	"	"	11/20/19	EPA 6010B	
Cobalt	16	1.0	"	"	"	"	"	"	
Copper	28	1.0	"	"	"	"	"	"	
Lead	8.1	2.5	"	"	"	"	"	"	
Mercury	ND	0.10	"	"	1909793	11/20/19	11/21/19	EPA 7471A	
Molybdenum	ND	1.0	"	"	1909790	11/20/19	11/20/19	EPA 6010B	
Nickel	150	1.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	10	"	"	11/21/19	EPA 6020	
Silver	ND	2.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	58	2.0	"	"	"	"	"	"	
Zinc	65	5.0	"	"	"	"	"	"	



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CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SP-13 (19K0910-13) Soil Sampled: 11/18/19 09:08 Received: 11/18/19 16:30

Antimony	ND	2.5	mg/kg	1	1909790	11/20/19	11/20/19	EPA 6010B	
Arsenic	6.5	2.0	"	10	"	"	11/21/19	EPA 6020	
Barium	160	1.0	"	1	"	"	11/20/19	EPA 6010B	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	1.0	"	10	"	"	11/21/19	EPA 6020	
Chromium	80	1.0	"	1	"	"	11/20/19	EPA 6010B	
Cobalt	17	1.0	"	"	"	"	"	"	
Copper	31	1.0	"	"	"	"	"	"	
Lead	7.3	2.5	"	"	"	"	"	"	
Mercury	ND	0.10	"	"	1909793	11/20/19	11/21/19	EPA 7471A	
Molybdenum	ND	1.0	"	"	1909790	11/20/19	11/20/19	EPA 6010B	
Nickel	140	1.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	10	"	"	11/21/19	EPA 6020	
Silver	ND	2.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	69	2.0	"	"	"	"	"	"	
Zinc	67	5.0	"	"	"	"	"	"	

SP-14 (19K0910-14) Soil Sampled: 11/18/19 09:10 Received: 11/18/19 16:30

Antimony	ND	2.5	mg/kg	1	1909790	11/20/19	11/20/19	EPA 6010B	
Arsenic	9.0	2.0	"	10	"	"	11/21/19	EPA 6020	
Barium	190	1.0	"	1	"	"	11/20/19	EPA 6010B	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	1.0	"	10	"	"	11/21/19	EPA 6020	
Chromium	92	1.0	"	1	"	"	11/20/19	EPA 6010B	
Cobalt	18	1.0	"	"	"	"	"	"	
Copper	32	1.0	"	"	"	"	"	"	
Lead	10	2.5	"	"	"	"	"	"	
Mercury	ND	0.10	"	"	1909793	11/20/19	11/21/19	EPA 7471A	
Molybdenum	ND	1.0	"	"	1909790	11/20/19	11/20/19	EPA 6010B	
Nickel	150	1.0	"	"	"	"	"	"	



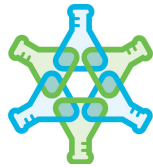
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CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-14 (19K0910-14) Soil Sampled: 11/18/19 09:10 Received: 11/18/19 16:30									
Selenium	ND	5.0	mg/kg	10	1909790	"	11/21/19	EPA 6020	
Silver	ND	2.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	95	2.0	"	"	"	"	"	"	
Zinc	94	5.0	"	"	"	"	"	"	
SP-15 (19K0910-15) Soil Sampled: 11/18/19 09:12 Received: 11/18/19 16:30									
Antimony	ND	2.5	mg/kg	1	1909790	11/20/19	11/20/19	EPA 6010B	
Arsenic	6.9	2.0	"	10	"	"	11/21/19	EPA 6020	
Barium	150	1.0	"	1	"	"	11/20/19	EPA 6010B	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	1.0	"	10	"	"	11/21/19	EPA 6020	
Chromium	81	1.0	"	1	"	"	11/20/19	EPA 6010B	
Cobalt	15	1.0	"	"	"	"	"	"	
Copper	27	1.0	"	"	"	"	"	"	
Lead	9.2	2.5	"	"	"	"	"	"	
Mercury	ND	0.10	"	"	1909793	11/20/19	11/21/19	EPA 7471A	
Molybdenum	ND	1.0	"	"	1909790	11/20/19	11/20/19	EPA 6010B	
Nickel	120	1.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	10	"	"	11/21/19	EPA 6020	
Silver	ND	2.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	66	2.0	"	"	"	"	"	"	
Zinc	69	5.0	"	"	"	"	"	"	



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CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-16 (19K0910-16) Soil Sampled: 11/18/19 09:13 Received: 11/18/19 16:30									
Antimony	ND	2.5	mg/kg	1	1909790	11/20/19	11/20/19	EPA 6010B	
Arsenic	5.5	2.0	"	10	"	"	11/21/19	EPA 6020	
Barium	140	1.0	"	1	"	"	11/20/19	EPA 6010B	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	1.0	"	10	"	"	11/21/19	EPA 6020	
Chromium	71	1.0	"	1	"	"	11/20/19	EPA 6010B	
Cobalt	16	1.0	"	"	"	"	"	"	
Copper	26	1.0	"	"	"	"	"	"	
Lead	10	2.5	"	"	"	"	"	"	
Mercury	ND	0.10	"	"	1909846	11/21/19	11/25/19	EPA 7471A	
Molybdenum	ND	1.0	"	"	1909790	11/20/19	11/20/19	EPA 6010B	
Nickel	120	1.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	10	"	"	11/21/19	EPA 6020	
Silver	ND	2.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	65	2.0	"	"	"	"	"	"	
Zinc	63	5.0	"	"	"	"	"	"	
SP-17 (19K0910-17) Soil Sampled: 11/18/19 09:15 Received: 11/18/19 16:30									
Antimony	ND	2.5	mg/kg	1	1909790	11/20/19	11/20/19	EPA 6010B	
Arsenic	6.8	2.0	"	10	"	"	11/21/19	EPA 6020	
Barium	160	1.0	"	1	"	"	11/20/19	EPA 6010B	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	1.0	"	10	"	"	11/21/19	EPA 6020	
Chromium	79	1.0	"	1	"	"	11/20/19	EPA 6010B	
Cobalt	17	1.0	"	"	"	"	"	"	
Copper	27	1.0	"	"	"	"	"	"	
Lead	9.5	2.5	"	"	"	"	"	"	
Mercury	0.95	0.50	"	5	1909793	11/20/19	11/21/19	EPA 7471A	
Molybdenum	ND	1.0	"	1	1909790	11/20/19	11/20/19	EPA 6010B	
Nickel	120	1.0	"	"	"	"	"	"	



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CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SP-17 (19K0910-17) Soil Sampled: 11/18/19 09:15 Received: 11/18/19 16:30

Selenium	ND	5.0	mg/kg	10	1909790	"	11/21/19	EPA 6020	
Silver	ND	2.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	80	2.0	"	"	"	"	"	"	
Zinc	74	5.0	"	"	"	"	"	"	

SP-18 (19K0910-18) Soil Sampled: 11/18/19 09:17 Received: 11/18/19 16:30

Antimony	ND	2.5	mg/kg	1	1909790	11/20/19	11/20/19	EPA 6010B	
Arsenic	7.2	2.0	"	10	"	"	11/21/19	EPA 6020	
Barium	150	1.0	"	1	"	"	11/20/19	EPA 6010B	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	1.0	"	10	"	"	11/21/19	EPA 6020	
Chromium	65	1.0	"	1	"	"	11/20/19	EPA 6010B	
Cobalt	14	1.0	"	"	"	"	"	"	
Copper	24	1.0	"	"	"	"	"	"	
Lead	8.7	2.5	"	"	"	"	"	"	
Mercury	ND	0.10	"	"	1909793	11/20/19	11/21/19	EPA 7471A	
Molybdenum	ND	1.0	"	"	1909790	11/20/19	11/20/19	EPA 6010B	
Nickel	110	1.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	10	"	"	11/21/19	EPA 6020	
Silver	ND	2.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	65	2.0	"	"	"	"	"	"	
Zinc	68	5.0	"	"	"	"	"	"	



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CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-19 (19K0910-19) Soil Sampled: 11/18/19 09:19 Received: 11/18/19 16:30									
Antimony	ND	2.5	mg/kg	1	1909790	11/20/19	11/20/19	EPA 6010B	
Arsenic	7.2	2.0	"	10	"	"	11/21/19	EPA 6020	
Barium	170	1.0	"	1	"	"	11/20/19	EPA 6010B	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	1.0	"	10	"	"	11/21/19	EPA 6020	
Chromium	80	1.0	"	1	"	"	11/20/19	EPA 6010B	
Cobalt	16	1.0	"	"	"	"	"	"	
Copper	30	1.0	"	"	"	"	"	"	
Lead	11	2.5	"	"	"	"	"	"	
Mercury	ND	0.10	"	"	1909793	11/20/19	11/21/19	EPA 7471A	
Molybdenum	ND	1.0	"	"	1909790	11/20/19	11/20/19	EPA 6010B	
Nickel	130	1.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	10	"	"	11/21/19	EPA 6020	
Silver	ND	2.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	72	2.0	"	"	"	"	"	"	
Zinc	71	5.0	"	"	"	"	"	"	
SP-20 (19K0910-20) Soil Sampled: 11/18/19 09:21 Received: 11/18/19 16:30									
Antimony	ND	2.5	mg/kg	1	1909790	11/20/19	11/20/19	EPA 6010B	
Arsenic	7.6	2.0	"	10	"	"	11/21/19	EPA 6020	
Barium	240	1.0	"	1	"	"	11/20/19	EPA 6010B	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	1.0	"	10	"	"	11/21/19	EPA 6020	
Chromium	83	1.0	"	1	"	"	11/20/19	EPA 6010B	
Cobalt	17	1.0	"	"	"	"	"	"	
Copper	29	1.0	"	"	"	"	"	"	
Lead	13	2.5	"	"	"	"	"	"	
Mercury	0.11	0.10	"	"	1909846	11/21/19	11/25/19	EPA 7471A	
Molybdenum	ND	1.0	"	"	1909790	11/20/19	11/20/19	EPA 6010B	
Nickel	140	1.0	"	"	"	"	"	"	



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CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-20 (19K0910-20) Soil Sampled: 11/18/19 09:21 Received: 11/18/19 16:30									
Selenium	ND	5.0	mg/kg	10	1909790	"	11/21/19	EPA 6020	
Silver	ND	2.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	77	2.0	"	"	"	"	"	"	
Zinc	78	5.0	"	"	"	"	"	"	
SP-21 (19K0910-21) Soil Sampled: 11/18/19 09:24 Received: 11/18/19 16:30									
Antimony	ND	2.5	mg/kg	1	1909831	11/21/19	11/21/19	EPA 6010B	
Arsenic	8.7	2.0	"	10	"	"	11/22/19	EPA 6020	
Barium	190	2.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	1	"	"	11/21/19	EPA 6010B	
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	130	1.0	"	"	"	"	"	"	
Cobalt	17	1.0	"	"	"	"	"	"	
Copper	61	1.0	"	"	"	"	"	"	
Lead	8.1	2.5	"	"	"	"	"	"	
Mercury	ND	0.10	"	"	1909846	11/21/19	11/25/19	EPA 7471A	
Molybdenum	ND	1.0	"	"	1909831	11/21/19	11/21/19	EPA 6010B	
Nickel	120	1.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	10	"	"	11/22/19	EPA 6020	
Silver	2.8	2.0	"	"	"	"	"	"	A-COM
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	64	1.0	"	1	"	"	11/21/19	EPA 6010B	
Zinc	75	1.0	"	"	"	"	"	"	



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CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SP-22 (19K0910-22) Soil Sampled: 11/18/19 09:27 Received: 11/18/19 16:30

Antimony	ND	2.5	mg/kg	1	1909831	11/21/19	11/21/19	EPA 6010B	
Arsenic	6.9	2.0	"	10	"	"	11/22/19	EPA 6020	
Barium	160	2.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	1	"	"	11/21/19	EPA 6010B	
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	87	1.0	"	"	"	"	"	"	
Cobalt	15	1.0	"	"	"	"	"	"	
Copper	56	1.0	"	"	"	"	"	"	
Lead	7.5	2.5	"	"	"	"	"	"	
Mercury	ND	0.10	"	"	1909846	11/21/19	11/25/19	EPA 7471A	
Molybdenum	ND	1.0	"	"	1909831	11/21/19	11/21/19	EPA 6010B	
Nickel	120	1.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	10	"	"	11/22/19	EPA 6020	
Silver	ND	2.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	58	1.0	"	1	"	"	11/21/19	EPA 6010B	
Zinc	65	1.0	"	"	"	"	"	"	

SP-23 (19K0910-23) Soil Sampled: 11/18/19 09:30 Received: 11/18/19 16:30

Antimony	ND	2.5	mg/kg	1	1909831	11/21/19	11/21/19	EPA 6010B	
Arsenic	6.3	2.0	"	10	"	"	11/22/19	EPA 6020	
Barium	160	2.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	1	"	"	11/21/19	EPA 6010B	
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	94	1.0	"	"	"	"	"	"	
Cobalt	15	1.0	"	"	"	"	"	"	
Copper	55	1.0	"	"	"	"	"	"	
Lead	9.9	2.5	"	"	"	"	"	"	
Mercury	ND	0.10	"	"	1909846	11/21/19	11/25/19	EPA 7471A	
Molybdenum	ND	1.0	"	"	1909831	11/21/19	11/21/19	EPA 6010B	
Nickel	120	1.0	"	"	"	"	"	"	



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CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-23 (19K0910-23) Soil Sampled: 11/18/19 09:30 Received: 11/18/19 16:30									
Selenium	ND	5.0	mg/kg	10	1909831	"	11/22/19	EPA 6020	
Silver	ND	2.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	59	1.0	"	1	"	"	11/21/19	EPA 6010B	
Zinc	66	1.0	"	"	"	"	"	"	
SP-24 (19K0910-24) Soil Sampled: 11/18/19 09:33 Received: 11/18/19 16:30									
Antimony	ND	2.5	mg/kg	1	1909831	11/21/19	11/21/19	EPA 6010B	
Arsenic	7.2	2.0	"	10	"	"	11/22/19	EPA 6020	
Barium	200	2.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	1	"	"	11/21/19	EPA 6010B	
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	91	1.0	"	"	"	"	"	"	
Cobalt	16	1.0	"	"	"	"	"	"	
Copper	56	1.0	"	"	"	"	"	"	
Lead	13	2.5	"	"	"	"	"	"	
Mercury	ND	0.10	"	"	1909846	11/21/19	11/25/19	EPA 7471A	
Molybdenum	ND	1.0	"	"	1909831	11/21/19	11/21/19	EPA 6010B	
Nickel	140	1.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	10	"	"	11/22/19	EPA 6020	
Silver	ND	2.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	60	1.0	"	1	"	"	11/21/19	EPA 6010B	
Zinc	68	1.0	"	"	"	"	"	"	



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Extractable Petroleum Hydrocarbons by EPA Method 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-1 (19K0910-01) Soil Sampled: 11/18/19 08:41 Received: 11/18/19 16:30									
Diesel	ND	1.0	mg/kg	1	1909746	11/19/19	11/20/19	EPA 8015M	
Motor Oil	55	1.0	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>		68 %	65-135		"	"	"	"	
SP-2 (19K0910-02) Soil Sampled: 11/18/19 08:44 Received: 11/18/19 16:30									
Diesel	ND	1.0	mg/kg	1	1909746	11/19/19	11/20/19	EPA 8015M	
Motor Oil	30	1.0	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>		71 %	65-135		"	"	"	"	
SP-3 (19K0910-03) Soil Sampled: 11/18/19 08:46 Received: 11/18/19 16:30									
Diesel	ND	1.0	mg/kg	1	1909746	11/19/19	11/20/19	EPA 8015M	
Motor Oil	77	1.0	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>		71 %	65-135		"	"	"	"	
SP-4 (19K0910-04) Soil Sampled: 11/18/19 08:48 Received: 11/18/19 16:30									
Diesel	ND	5.0	mg/kg	5	1909746	11/19/19	11/20/19	EPA 8015M	
Motor Oil	170	5.0	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>		84 %	65-135		"	"	"	"	
SP-5 (19K0910-05) Soil Sampled: 11/18/19 08:50 Received: 11/18/19 16:30									
Diesel	ND	5.0	mg/kg	5	1909746	11/19/19	11/20/19	EPA 8015M	
Motor Oil	270	5.0	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>		72 %	65-135		"	"	"	"	
SP-6 (19K0910-06) Soil Sampled: 11/18/19 08:52 Received: 11/18/19 16:30									
Diesel	ND	1.0	mg/kg	1	1909746	11/19/19	11/20/19	EPA 8015M	
Motor Oil	46	1.0	"	"	"	"	"	"	



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Extractable Petroleum Hydrocarbons by EPA Method 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-6 (19K0910-06) Soil Sampled: 11/18/19 08:52 Received: 11/18/19 16:30									
Surrogate: <i>o</i> -Terphenyl		73 %	65-135		1909746	"	11/20/19	EPA 8015M	
SP-7 (19K0910-07) Soil Sampled: 11/18/19 08:56 Received: 11/18/19 16:30									
Diesel	ND	1.0	mg/kg	1	1909746	11/19/19	11/20/19	EPA 8015M	
Motor Oil	53	1.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		68 %	65-135		"	"	"	"	
SP-8 (19K0910-08) Soil Sampled: 11/18/19 08:58 Received: 11/18/19 16:30									
Diesel	ND	1.0	mg/kg	1	1909746	11/19/19	11/20/19	EPA 8015M	
Motor Oil	59	1.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		69 %	65-135		"	"	"	"	
SP-9 (19K0910-09) Soil Sampled: 11/18/19 09:00 Received: 11/18/19 16:30									
Diesel	ND	1.0	mg/kg	1	1909746	11/19/19	11/20/19	EPA 8015M	
Motor Oil	86	1.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		72 %	65-135		"	"	"	"	
SP-10 (19K0910-10) Soil Sampled: 11/18/19 09:02 Received: 11/18/19 16:30									
Diesel	ND	1.0	mg/kg	1	1909746	11/19/19	11/20/19	EPA 8015M	
Motor Oil	71	1.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		78 %	65-135		"	"	"	"	
SP-11 (19K0910-11) Soil Sampled: 11/18/19 09:03 Received: 11/18/19 16:30									
Diesel	ND	5.0	mg/kg	5	1909746	11/19/19	11/20/19	EPA 8015M	
Motor Oil	240	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		79 %	65-135		"	"	"	"	



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Extractable Petroleum Hydrocarbons by EPA Method 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-12 (19K0910-12) Soil Sampled: 11/18/19 09:05 Received: 11/18/19 16:30									
Diesel	ND	5.0	mg/kg	5	1909746	11/19/19	11/20/19	EPA 8015M	
Motor Oil	170	5.0	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>		66 %	65-135		"	"	"	"	
SP-13 (19K0910-13) Soil Sampled: 11/18/19 09:08 Received: 11/18/19 16:30									
Diesel	ND	5.0	mg/kg	5	1909746	11/19/19	11/20/19	EPA 8015M	
Motor Oil	430	5.0	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>		69 %	65-135		"	"	"	"	
SP-14 (19K0910-14) Soil Sampled: 11/18/19 09:10 Received: 11/18/19 16:30									
Diesel	ND	1.0	mg/kg	1	1909746	11/19/19	11/20/19	EPA 8015M	
Motor Oil	99	1.0	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>		67 %	65-135		"	"	"	"	
SP-15 (19K0910-15) Soil Sampled: 11/18/19 09:12 Received: 11/18/19 16:30									
Diesel	ND	1.0	mg/kg	1	1909746	11/19/19	11/20/19	EPA 8015M	
Motor Oil	58	1.0	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>		71 %	65-135		"	"	"	"	
SP-16 (19K0910-16) Soil Sampled: 11/18/19 09:13 Received: 11/18/19 16:30									
Diesel	ND	1.0	mg/kg	1	1909746	11/19/19	11/20/19	EPA 8015M	
Motor Oil	85	1.0	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>		67 %	65-135		"	"	"	"	
SP-17 (19K0910-17) Soil Sampled: 11/18/19 09:15 Received: 11/18/19 16:30									
Diesel	ND	1.0	mg/kg	1	1909746	11/19/19	11/20/19	EPA 8015M	
Motor Oil	96	1.0	"	"	"	"	"	"	



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Extractable Petroleum Hydrocarbons by EPA Method 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-17 (19K0910-17) Soil Sampled: 11/18/19 09:15 Received: 11/18/19 16:30									
Surrogate: <i>o</i> -Terphenyl		71 %	65-135		1909746	"	11/20/19	EPA 8015M	
SP-18 (19K0910-18) Soil Sampled: 11/18/19 09:17 Received: 11/18/19 16:30									
Diesel	ND	5.0	mg/kg	5	1909746	11/19/19	11/20/19	EPA 8015M	
Motor Oil	340	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		80 %	65-135		"	"	"	"	
SP-19 (19K0910-19) Soil Sampled: 11/18/19 09:19 Received: 11/18/19 16:30									
Diesel	ND	1.0	mg/kg	1	1909746	11/19/19	11/20/19	EPA 8015M	
Motor Oil	69	1.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		71 %	65-135		"	"	"	"	
SP-20 (19K0910-20) Soil Sampled: 11/18/19 09:21 Received: 11/18/19 16:30									
Diesel	ND	5.0	mg/kg	5	1909746	11/19/19	11/20/19	EPA 8015M	
Motor Oil	420	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		103 %	65-135		"	"	"	"	
SP-21 (19K0910-21) Soil Sampled: 11/18/19 09:24 Received: 11/18/19 16:30									
Diesel	ND	5.0	mg/kg	5	1909746	11/19/19	11/20/19	EPA 8015M	
Motor Oil	250	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		81 %	65-135		"	"	"	"	
SP-22 (19K0910-22) Soil Sampled: 11/18/19 09:27 Received: 11/18/19 16:30									
Diesel	ND	5.0	mg/kg	5	1909674	11/19/19	11/19/19	EPA 8015M	
Motor Oil	230	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		81 %	65-135		"	"	"	"	



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Extractable Petroleum Hydrocarbons by EPA Method 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-23 (19K0910-23) Soil Sampled: 11/18/19 09:30 Received: 11/18/19 16:30									
Diesel	ND	1.0	mg/kg	1	1909674	11/19/19	11/19/19	EPA 8015M	
Motor Oil	120	1.0	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>		85 %	65-135		"	"	"	"	
SP-24 (19K0910-24) Soil Sampled: 11/18/19 09:33 Received: 11/18/19 16:30									
Diesel	ND	1.0	mg/kg	1	1909674	11/19/19	11/19/19	EPA 8015M	
Motor Oil	97	1.0	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>		85 %	65-135		"	"	"	"	



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Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-1 (19K0910-01) Soil Sampled: 11/18/19 08:41 Received: 11/18/19 16:30									
4,4'-DDD	ND	17	µg/kg	5	1909754	11/19/19	11/20/19	EPA 8081A	
4,4'-DDE	ND	17	"	"	"	"	"	"	
4,4'-DDT	ND	17	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
alpha-BHC	ND	8.5	"	"	"	"	"	"	
beta-BHC	ND	8.5	"	"	"	"	"	"	
Chlordane-technical	ND	17	"	"	"	"	"	"	
delta-BHC	ND	8.5	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	8.5	"	"	"	"	"	"	
Endosulfan II	ND	17	"	"	"	"	"	"	
Endosulfan sulfate	ND	17	"	"	"	"	"	"	
Endrin	ND	17	"	"	"	"	"	"	
Endrin aldehyde	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	8.5	"	"	"	"	"	"	
Heptachlor	ND	8.5	"	"	"	"	"	"	
Heptachlor epoxide	ND	8.5	"	"	"	"	"	"	
Methoxychlor	ND	85	"	"	"	"	"	"	
Mirex	ND	17	"	"	"	"	"	"	
Toxaphene	ND	100	"	"	"	"	"	"	

QRL-8

Surrogate: Decachlorobiphenyl	85 %	52-141	"	"	"	"	"
Surrogate: Tetrachloro-meta-xylene	73 %	46-139	"	"	"	"	"

SP-2 (19K0910-02) Soil Sampled: 11/18/19 08:44 Received: 11/18/19 16:30

QRL-8

4,4'-DDD	ND	17	µg/kg	5	1909754	11/19/19	11/20/19	EPA 8081A	
4,4'-DDE	ND	17	"	"	"	"	"	"	
4,4'-DDT	ND	17	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
alpha-BHC	ND	8.5	"	"	"	"	"	"	
beta-BHC	ND	8.5	"	"	"	"	"	"	



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Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-2 (19K0910-02) Soil Sampled: 11/18/19 08:44 Received: 11/18/19 16:30									
Chlordane-technical	ND	17	µg/kg	5	1909754	"	11/20/19	EPA 8081A	
delta-BHC	ND	8.5	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	8.5	"	"	"	"	"	"	
Endosulfan II	ND	17	"	"	"	"	"	"	
Endosulfan sulfate	ND	17	"	"	"	"	"	"	
Endrin	ND	17	"	"	"	"	"	"	
Endrin aldehyde	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	8.5	"	"	"	"	"	"	
Heptachlor	ND	8.5	"	"	"	"	"	"	
Heptachlor epoxide	ND	8.5	"	"	"	"	"	"	
Methoxychlor	ND	85	"	"	"	"	"	"	
Mirex	ND	17	"	"	"	"	"	"	
Toxaphene	ND	100	"	"	"	"	"	"	

QRL-8

Surrogate: Decachlorobiphenyl	79 %	52-141	"	"	"	"
Surrogate: Tetrachloro-meta-xylene	75 %	46-139	"	"	"	"

SP-3 (19K0910-03) Soil Sampled: 11/18/19 08:46 Received: 11/18/19 16:30

QRL-8

4,4'-DDD	ND	17	µg/kg	5	1909754	11/19/19	11/20/19	EPA 8081A	
4,4'-DDE	ND	17	"	"	"	"	"	"	
4,4'-DDT	ND	17	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
alpha-BHC	ND	8.5	"	"	"	"	"	"	
beta-BHC	ND	8.5	"	"	"	"	"	"	
Chlordane-technical	ND	17	"	"	"	"	"	"	
delta-BHC	ND	8.5	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	8.5	"	"	"	"	"	"	
Endosulfan II	ND	17	"	"	"	"	"	"	
Endosulfan sulfate	ND	17	"	"	"	"	"	"	



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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K0910 COC #: 461037 & 880876
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Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-3 (19K0910-03) Soil Sampled: 11/18/19 08:46 Received: 11/18/19 16:30									
Endrin	ND	17	µg/kg	5	1909754	"	11/20/19	EPA 8081A	
Endrin aldehyde	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	8.5	"	"	"	"	"	"	
Heptachlor	ND	8.5	"	"	"	"	"	"	
Heptachlor epoxide	ND	8.5	"	"	"	"	"	"	
Methoxychlor	ND	85	"	"	"	"	"	"	
Mirex	ND	17	"	"	"	"	"	"	
Toxaphene	ND	100	"	"	"	"	"	"	

QRL-8

Surrogate: Decachlorobiphenyl 80 % 52-141 " " " "

Surrogate: Tetrachloro-meta-xylene 79 % 46-139 " " " "

SP-4 (19K0910-04) Soil Sampled: 11/18/19 08:48 Received: 11/18/19 16:30									
4,4'-DDD	ND	17	µg/kg	5	1909754	11/19/19	11/20/19	EPA 8081A	
4,4'-DDE	ND	17	"	"	"	"	"	"	
4,4'-DDT	ND	17	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
alpha-BHC	ND	8.5	"	"	"	"	"	"	
beta-BHC	ND	8.5	"	"	"	"	"	"	
Chlordane-technical	ND	17	"	"	"	"	"	"	
delta-BHC	ND	8.5	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	8.5	"	"	"	"	"	"	
Endosulfan II	ND	17	"	"	"	"	"	"	
Endosulfan sulfate	ND	17	"	"	"	"	"	"	
Endrin	ND	17	"	"	"	"	"	"	
Endrin aldehyde	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	8.5	"	"	"	"	"	"	
Heptachlor	ND	8.5	"	"	"	"	"	"	
Heptachlor epoxide	ND	8.5	"	"	"	"	"	"	
Methoxychlor	ND	85	"	"	"	"	"	"	

QRL-8



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Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
SP-4 (19K0910-04) Soil Sampled: 11/18/19 08:48 Received: 11/18/19 16:30										
Mirex	ND	17	µg/kg	5	1909754	"	11/20/19	EPA 8081A	QRL-8	
Toxaphene	ND	100	"	"	"	"	"	"		
<i>Surrogate: Decachlorobiphenyl</i>		82 %	52-141		"	"	"	"		
<i>Surrogate: Tetrachloro-meta-xylene</i>		74 %	46-139		"	"	"	"		
SP-5 (19K0910-05) Soil Sampled: 11/18/19 08:50 Received: 11/18/19 16:30										
4,4'-DDD	ND	17	µg/kg	5	1909754	11/19/19	11/20/19	EPA 8081A	QRL-8	
4,4'-DDE	ND	17	"	"	"	"	"	"		
4,4'-DDT	ND	17	"	"	"	"	"	"		
Aldrin	ND	5.0	"	"	"	"	"	"		
alpha-BHC	ND	8.5	"	"	"	"	"	"		
beta-BHC	ND	8.5	"	"	"	"	"	"		
Chlordane-technical	ND	17	"	"	"	"	"	"		
delta-BHC	ND	8.5	"	"	"	"	"	"		
Dieldrin	ND	5.0	"	"	"	"	"	"		
Endosulfan I	ND	8.5	"	"	"	"	"	"		
Endosulfan II	ND	17	"	"	"	"	"	"		
Endosulfan sulfate	ND	17	"	"	"	"	"	"		
Endrin	ND	17	"	"	"	"	"	"		
Endrin aldehyde	ND	17	"	"	"	"	"	"		
gamma-BHC (Lindane)	ND	8.5	"	"	"	"	"	"		
Heptachlor	ND	8.5	"	"	"	"	"	"		
Heptachlor epoxide	ND	8.5	"	"	"	"	"	"		
Methoxychlor	ND	85	"	"	"	"	"	"		
Mirex	ND	17	"	"	"	"	"	"		
Toxaphene	ND	100	"	"	"	"	"	"		
<i>Surrogate: Decachlorobiphenyl</i>		88 %	52-141		"	"	"	"		
<i>Surrogate: Tetrachloro-meta-xylene</i>		87 %	46-139		"	"	"	"		



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Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-6 (19K0910-06) Soil Sampled: 11/18/19 08:52 Received: 11/18/19 16:30									
4,4'-DDD	ND	17	µg/kg	5	1909754	11/19/19	11/20/19	EPA 8081A	
4,4'-DDE	ND	17	"	"	"	"	"	"	
4,4'-DDT	ND	17	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
alpha-BHC	ND	8.5	"	"	"	"	"	"	
beta-BHC	ND	8.5	"	"	"	"	"	"	
Chlordane-technical	ND	17	"	"	"	"	"	"	
delta-BHC	ND	8.5	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	8.5	"	"	"	"	"	"	
Endosulfan II	ND	17	"	"	"	"	"	"	
Endosulfan sulfate	ND	17	"	"	"	"	"	"	
Endrin	ND	17	"	"	"	"	"	"	
Endrin aldehyde	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	8.5	"	"	"	"	"	"	
Heptachlor	ND	8.5	"	"	"	"	"	"	
Heptachlor epoxide	ND	8.5	"	"	"	"	"	"	
Methoxychlor	ND	85	"	"	"	"	"	"	
Mirex	ND	17	"	"	"	"	"	"	
Toxaphene	ND	100	"	"	"	"	"	"	

QRL-8

Surrogate: Decachlorobiphenyl	82 %	52-141	"	"	"	"	"	"
Surrogate: Tetrachloro-meta-xylene	82 %	46-139	"	"	"	"	"	"

SP-7 (19K0910-07) Soil Sampled: 11/18/19 08:56 Received: 11/18/19 16:30

QRL-8

4,4'-DDD	ND	17	µg/kg	5	1909754	11/19/19	11/20/19	EPA 8081A	
4,4'-DDE	ND	17	"	"	"	"	"	"	
4,4'-DDT	ND	17	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
alpha-BHC	ND	8.5	"	"	"	"	"	"	
beta-BHC	ND	8.5	"	"	"	"	"	"	



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Organochlorine Pesticides by EPA Method 8081A

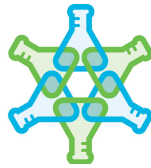
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-7 (19K0910-07) Soil Sampled: 11/18/19 08:56 Received: 11/18/19 16:30									
Chlordane-technical	ND	17	µg/kg	5	1909754	"	11/20/19	EPA 8081A	
delta-BHC	ND	8.5	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	8.5	"	"	"	"	"	"	
Endosulfan II	ND	17	"	"	"	"	"	"	
Endosulfan sulfate	ND	17	"	"	"	"	"	"	
Endrin	ND	17	"	"	"	"	"	"	
Endrin aldehyde	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	8.5	"	"	"	"	"	"	
Heptachlor	ND	8.5	"	"	"	"	"	"	
Heptachlor epoxide	ND	8.5	"	"	"	"	"	"	
Methoxychlor	ND	85	"	"	"	"	"	"	
Mirex	ND	17	"	"	"	"	"	"	
Toxaphene	ND	100	"	"	"	"	"	"	

QRL-8

Surrogate: Decachlorobiphenyl	81 %	52-141	"	"	"	"
Surrogate: Tetrachloro-meta-xylene	78 %	46-139	"	"	"	"

SP-8 (19K0910-08) Soil Sampled: 11/18/19 08:58 Received: 11/18/19 16:30									
4,4'-DDD	ND	17	µg/kg	5	1909754	11/19/19	11/20/19	EPA 8081A	
4,4'-DDE	ND	17	"	"	"	"	"	"	
4,4'-DDT	ND	17	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
alpha-BHC	ND	8.5	"	"	"	"	"	"	
beta-BHC	ND	8.5	"	"	"	"	"	"	
Chlordane-technical	ND	17	"	"	"	"	"	"	
delta-BHC	ND	8.5	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	8.5	"	"	"	"	"	"	
Endosulfan II	ND	17	"	"	"	"	"	"	
Endosulfan sulfate	ND	17	"	"	"	"	"	"	

QRL-8



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Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-8 (19K0910-08) Soil Sampled: 11/18/19 08:58 Received: 11/18/19 16:30									
Endrin	ND	17	µg/kg	5	1909754	"	11/20/19	EPA 8081A	
Endrin aldehyde	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	8.5	"	"	"	"	"	"	
Heptachlor	ND	8.5	"	"	"	"	"	"	
Heptachlor epoxide	ND	8.5	"	"	"	"	"	"	
Methoxychlor	ND	85	"	"	"	"	"	"	
Mirex	ND	17	"	"	"	"	"	"	
Toxaphene	ND	100	"	"	"	"	"	"	

QRL-8

Surrogate: Decachlorobiphenyl 82 % 52-141 " " " "

Surrogate: Tetrachloro-meta-xylene 77 % 46-139 " " " "

SP-9 (19K0910-09) Soil Sampled: 11/18/19 09:00 Received: 11/18/19 16:30									
4,4'-DDD	ND	17	µg/kg	5	1909754	11/19/19	11/20/19	EPA 8081A	
4,4'-DDE	ND	17	"	"	"	"	"	"	
4,4'-DDT	ND	17	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
alpha-BHC	ND	8.5	"	"	"	"	"	"	
beta-BHC	ND	8.5	"	"	"	"	"	"	
Chlordane-technical	ND	17	"	"	"	"	"	"	
delta-BHC	ND	8.5	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	8.5	"	"	"	"	"	"	
Endosulfan II	ND	17	"	"	"	"	"	"	
Endosulfan sulfate	ND	17	"	"	"	"	"	"	
Endrin	ND	17	"	"	"	"	"	"	
Endrin aldehyde	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	8.5	"	"	"	"	"	"	
Heptachlor	ND	8.5	"	"	"	"	"	"	
Heptachlor epoxide	ND	8.5	"	"	"	"	"	"	
Methoxychlor	ND	85	"	"	"	"	"	"	

QRL-8



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Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-9 (19K0910-09) Soil Sampled: 11/18/19 09:00 Received: 11/18/19 16:30									
Mirex	ND	17	µg/kg	5	1909754	"	11/20/19	EPA 8081A	QRL-8
Toxaphene	ND	100	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		83 %	52-141	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		78 %	46-139	"	"	"	"	"	
SP-10 (19K0910-10) Soil Sampled: 11/18/19 09:02 Received: 11/18/19 16:30									
4,4'-DDD	ND	17	µg/kg	5	1909754	11/19/19	11/20/19	EPA 8081A	QRL-8
4,4'-DDE	ND	17	"	"	"	"	"	"	
4,4'-DDT	ND	17	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
alpha-BHC	ND	8.5	"	"	"	"	"	"	
beta-BHC	ND	8.5	"	"	"	"	"	"	
Chlordane-technical	ND	17	"	"	"	"	"	"	
delta-BHC	ND	8.5	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	8.5	"	"	"	"	"	"	
Endosulfan II	ND	17	"	"	"	"	"	"	
Endosulfan sulfate	ND	17	"	"	"	"	"	"	
Endrin	ND	17	"	"	"	"	"	"	
Endrin aldehyde	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	8.5	"	"	"	"	"	"	
Heptachlor	ND	8.5	"	"	"	"	"	"	
Heptachlor epoxide	ND	8.5	"	"	"	"	"	"	
Methoxychlor	ND	85	"	"	"	"	"	"	
Mirex	ND	17	"	"	"	"	"	"	
Toxaphene	ND	100	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		74 %	52-141	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		68 %	46-139	"	"	"	"	"	



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Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-12 (19K0910-12) Soil Sampled: 11/18/19 09:05 Received: 11/18/19 16:30									
Chlordane-technical	ND	33	µg/kg	10	1909754	"	11/20/19	EPA 8081A	
delta-BHC	ND	17	"	"	"	"	"	"	
Dieldrin	ND	10	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

QRL-8

Surrogate: Decachlorobiphenyl 67 % 52-141 " " " "

Surrogate: Tetrachloro-meta-xylene 71 % 46-139 " " " "

SP-13 (19K0910-13) Soil Sampled: 11/18/19 09:08 Received: 11/18/19 16:30									
4,4'-DDD	ND	33	µg/kg	10	1909754	11/19/19	11/20/19	EPA 8081A	
4,4'-DDE	ND	33	"	"	"	"	"	"	
4,4'-DDT	ND	33	"	"	"	"	"	"	
Aldrin	ND	10	"	"	"	"	"	"	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Dieldrin	ND	10	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	

QRL-8



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Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-13 (19K0910-13) Soil Sampled: 11/18/19 09:08 Received: 11/18/19 16:30									
Endrin	ND	33	µg/kg	10	1909754	"	11/20/19	EPA 8081A	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

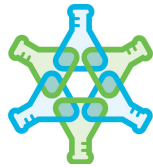
QRL-8

Surrogate: Decachlorobiphenyl 89 % 52-141 " " " "

Surrogate: Tetrachloro-meta-xylene 75 % 46-139 " " " "

SP-14 (19K0910-14) Soil Sampled: 11/18/19 09:10 Received: 11/18/19 16:30									
4,4'-DDD	ND	17	µg/kg	5	1909754	11/19/19	11/20/19	EPA 8081A	
4,4'-DDE	ND	17	"	"	"	"	"	"	
4,4'-DDT	ND	17	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
alpha-BHC	ND	8.5	"	"	"	"	"	"	
beta-BHC	ND	8.5	"	"	"	"	"	"	
Chlordane-technical	ND	17	"	"	"	"	"	"	
delta-BHC	ND	8.5	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	8.5	"	"	"	"	"	"	
Endosulfan II	ND	17	"	"	"	"	"	"	
Endosulfan sulfate	ND	17	"	"	"	"	"	"	
Endrin	ND	17	"	"	"	"	"	"	
Endrin aldehyde	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	8.5	"	"	"	"	"	"	
Heptachlor	ND	8.5	"	"	"	"	"	"	
Heptachlor epoxide	ND	8.5	"	"	"	"	"	"	
Methoxychlor	ND	85	"	"	"	"	"	"	

QRL-8



CALIFORNIA LABORATORY SERVICES

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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K0910 COC #: 461037 & 880876
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Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-14 (19K0910-14) Soil Sampled: 11/18/19 09:10 Received: 11/18/19 16:30									QRL-8
Mirex	ND	17	µg/kg	5	1909754	"	11/20/19	EPA 8081A	
Toxaphene	ND	100	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		97 %		52-141	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		64 %		46-139	"	"	"	"	
SP-15 (19K0910-15) Soil Sampled: 11/18/19 09:12 Received: 11/18/19 16:30									QRL-8
4,4'-DDD	ND	17	µg/kg	5	1909754	11/19/19	11/20/19	EPA 8081A	
4,4'-DDE	ND	17	"	"	"	"	"	"	
4,4'-DDT	ND	17	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
alpha-BHC	ND	8.5	"	"	"	"	"	"	
beta-BHC	ND	8.5	"	"	"	"	"	"	
Chlordane-technical	ND	17	"	"	"	"	"	"	
delta-BHC	ND	8.5	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	8.5	"	"	"	"	"	"	
Endosulfan II	ND	17	"	"	"	"	"	"	
Endosulfan sulfate	ND	17	"	"	"	"	"	"	
Endrin	ND	17	"	"	"	"	"	"	
Endrin aldehyde	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	8.5	"	"	"	"	"	"	
Heptachlor	ND	8.5	"	"	"	"	"	"	
Heptachlor epoxide	ND	8.5	"	"	"	"	"	"	
Methoxychlor	ND	85	"	"	"	"	"	"	
Mirex	ND	17	"	"	"	"	"	"	
Toxaphene	ND	100	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		75 %		52-141	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		69 %		46-139	"	"	"	"	



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Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-17 (19K0910-17) Soil Sampled: 11/18/19 09:15 Received: 11/18/19 16:30									
Chlordane-technical	ND	17	µg/kg	5	1909772	"	11/21/19	EPA 8081A	
delta-BHC	ND	8.5	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	8.5	"	"	"	"	"	"	
Endosulfan II	ND	17	"	"	"	"	"	"	
Endosulfan sulfate	ND	17	"	"	"	"	"	"	
Endrin	ND	17	"	"	"	"	"	"	
Endrin aldehyde	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	8.5	"	"	"	"	"	"	
Heptachlor	ND	8.5	"	"	"	"	"	"	
Heptachlor epoxide	ND	8.5	"	"	"	"	"	"	
Methoxychlor	ND	85	"	"	"	"	"	"	
Mirex	ND	17	"	"	"	"	"	"	
Toxaphene	ND	100	"	"	"	"	"	"	

QRL-8

Surrogate: Decachlorobiphenyl	84 %	52-141	"	"	"	"
Surrogate: Tetrachloro-meta-xylene	87 %	46-139	"	"	"	"

SP-18 (19K0910-18) Soil Sampled: 11/18/19 09:17 Received: 11/18/19 16:30

QRL-8

4,4'-DDD	ND	17	µg/kg	5	1909772	11/20/19	11/21/19	EPA 8081A	
4,4'-DDE	ND	17	"	"	"	"	"	"	
4,4'-DDT	ND	17	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
alpha-BHC	ND	8.5	"	"	"	"	"	"	
beta-BHC	ND	8.5	"	"	"	"	"	"	
Chlordane-technical	ND	17	"	"	"	"	"	"	
delta-BHC	ND	8.5	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	8.5	"	"	"	"	"	"	
Endosulfan II	ND	17	"	"	"	"	"	"	
Endosulfan sulfate	ND	17	"	"	"	"	"	"	



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Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-18 (19K0910-18) Soil Sampled: 11/18/19 09:17 Received: 11/18/19 16:30									
Endrin	ND	17	µg/kg	5	1909772	"	11/21/19	EPA 8081A	
Endrin aldehyde	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	8.5	"	"	"	"	"	"	
Heptachlor	ND	8.5	"	"	"	"	"	"	
Heptachlor epoxide	ND	8.5	"	"	"	"	"	"	
Methoxychlor	ND	85	"	"	"	"	"	"	
Mirex	ND	17	"	"	"	"	"	"	
Toxaphene	ND	100	"	"	"	"	"	"	

QRL-8

Surrogate: Decachlorobiphenyl 79 % 52-141 " " " "

Surrogate: Tetrachloro-meta-xylene 76 % 46-139 " " " "

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-19 (19K0910-19) Soil Sampled: 11/18/19 09:19 Received: 11/18/19 16:30									
4,4'-DDD	ND	17	µg/kg	5	1909772	11/20/19	11/21/19	EPA 8081A	
4,4'-DDE	ND	17	"	"	"	"	"	"	
4,4'-DDT	ND	17	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
alpha-BHC	ND	8.5	"	"	"	"	"	"	
beta-BHC	ND	8.5	"	"	"	"	"	"	
Chlordane-technical	ND	17	"	"	"	"	"	"	
delta-BHC	ND	8.5	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	8.5	"	"	"	"	"	"	
Endosulfan II	ND	17	"	"	"	"	"	"	
Endosulfan sulfate	ND	17	"	"	"	"	"	"	
Endrin	ND	17	"	"	"	"	"	"	
Endrin aldehyde	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	8.5	"	"	"	"	"	"	
Heptachlor	ND	8.5	"	"	"	"	"	"	
Heptachlor epoxide	ND	8.5	"	"	"	"	"	"	
Methoxychlor	ND	85	"	"	"	"	"	"	

QRL-8



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Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-19 (19K0910-19) Soil Sampled: 11/18/19 09:19 Received: 11/18/19 16:30									
Mirex	ND	17	µg/kg	5	1909772	"	11/21/19	EPA 8081A	QRL-8
Toxaphene	ND	100	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		118 %	52-141	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		101 %	46-139	"	"	"	"	"	
SP-20 (19K0910-20) Soil Sampled: 11/18/19 09:21 Received: 11/18/19 16:30									
4,4'-DDD	ND	17	µg/kg	5	1909772	11/20/19	11/21/19	EPA 8081A	QRL-8
4,4'-DDE	ND	17	"	"	"	"	"	"	
4,4'-DDT	ND	17	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
alpha-BHC	ND	8.5	"	"	"	"	"	"	
beta-BHC	ND	8.5	"	"	"	"	"	"	
Chlordane-technical	ND	17	"	"	"	"	"	"	
delta-BHC	ND	8.5	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	8.5	"	"	"	"	"	"	
Endosulfan II	ND	17	"	"	"	"	"	"	
Endosulfan sulfate	ND	17	"	"	"	"	"	"	
Endrin	ND	17	"	"	"	"	"	"	
Endrin aldehyde	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	8.5	"	"	"	"	"	"	
Heptachlor	ND	8.5	"	"	"	"	"	"	
Heptachlor epoxide	ND	8.5	"	"	"	"	"	"	
Methoxychlor	ND	85	"	"	"	"	"	"	
Mirex	ND	17	"	"	"	"	"	"	
Toxaphene	ND	100	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		81 %	52-141	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		89 %	46-139	"	"	"	"	"	



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Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-21 (19K0910-21) Soil Sampled: 11/18/19 09:24 Received: 11/18/19 16:30									
4,4'-DDD	ND	17	µg/kg	5	1909772	11/20/19	11/21/19	EPA 8081A	
4,4'-DDE	ND	17	"	"	"	"	"	"	
4,4'-DDT	ND	17	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
alpha-BHC	ND	8.5	"	"	"	"	"	"	
beta-BHC	ND	8.5	"	"	"	"	"	"	
Chlordane-technical	ND	17	"	"	"	"	"	"	
delta-BHC	ND	8.5	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	8.5	"	"	"	"	"	"	
Endosulfan II	ND	17	"	"	"	"	"	"	
Endosulfan sulfate	ND	17	"	"	"	"	"	"	
Endrin	ND	17	"	"	"	"	"	"	
Endrin aldehyde	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	8.5	"	"	"	"	"	"	
Heptachlor	ND	8.5	"	"	"	"	"	"	
Heptachlor epoxide	ND	8.5	"	"	"	"	"	"	
Methoxychlor	ND	85	"	"	"	"	"	"	
Mirex	ND	17	"	"	"	"	"	"	
Toxaphene	ND	100	"	"	"	"	"	"	

QRL-8

Surrogate: Decachlorobiphenyl 79 % 52-141 " " " "

Surrogate: Tetrachloro-meta-xylene 88 % 46-139 " " " "

SP-22 (19K0910-22) Soil Sampled: 11/18/19 09:27 Received: 11/18/19 16:30

QRL-8

4,4'-DDD	ND	17	µg/kg	5	1909772	11/20/19	11/21/19	EPA 8081A	
4,4'-DDE	ND	17	"	"	"	"	"	"	
4,4'-DDT	ND	17	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
alpha-BHC	ND	8.5	"	"	"	"	"	"	
beta-BHC	ND	8.5	"	"	"	"	"	"	



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Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-22 (19K0910-22) Soil Sampled: 11/18/19 09:27 Received: 11/18/19 16:30									
Chlordane-technical	ND	17	µg/kg	5	1909772	"	11/21/19	EPA 8081A	
delta-BHC	ND	8.5	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	8.5	"	"	"	"	"	"	
Endosulfan II	ND	17	"	"	"	"	"	"	
Endosulfan sulfate	ND	17	"	"	"	"	"	"	
Endrin	ND	17	"	"	"	"	"	"	
Endrin aldehyde	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	8.5	"	"	"	"	"	"	
Heptachlor	ND	8.5	"	"	"	"	"	"	
Heptachlor epoxide	ND	8.5	"	"	"	"	"	"	
Methoxychlor	ND	85	"	"	"	"	"	"	
Mirex	ND	17	"	"	"	"	"	"	
Toxaphene	ND	100	"	"	"	"	"	"	

QRL-8

Surrogate: Decachlorobiphenyl	79 %	52-141	"	"	"	"
Surrogate: Tetrachloro-meta-xylene	87 %	46-139	"	"	"	"

SP-23 (19K0910-23) Soil Sampled: 11/18/19 09:30 Received: 11/18/19 16:30

QRL-8

4,4'-DDD	ND	17	µg/kg	5	1909772	11/20/19	11/21/19	EPA 8081A	
4,4'-DDE	ND	17	"	"	"	"	"	"	
4,4'-DDT	ND	17	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
alpha-BHC	ND	8.5	"	"	"	"	"	"	
beta-BHC	ND	8.5	"	"	"	"	"	"	
Chlordane-technical	ND	17	"	"	"	"	"	"	
delta-BHC	ND	8.5	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	8.5	"	"	"	"	"	"	
Endosulfan II	ND	17	"	"	"	"	"	"	
Endosulfan sulfate	ND	17	"	"	"	"	"	"	



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Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-23 (19K0910-23) Soil Sampled: 11/18/19 09:30 Received: 11/18/19 16:30									
Endrin	ND	17	µg/kg	5	1909772	"	11/21/19	EPA 8081A	
Endrin aldehyde	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	8.5	"	"	"	"	"	"	
Heptachlor	ND	8.5	"	"	"	"	"	"	
Heptachlor epoxide	ND	8.5	"	"	"	"	"	"	
Methoxychlor	ND	85	"	"	"	"	"	"	
Mirex	ND	17	"	"	"	"	"	"	
Toxaphene	ND	100	"	"	"	"	"	"	

QRL-8

Surrogate: Decachlorobiphenyl 60% 52-141 " " " "

Surrogate: Tetrachloro-meta-xylene 62% 46-139 " " " "

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-24 (19K0910-24) Soil Sampled: 11/18/19 09:33 Received: 11/18/19 16:30									
4,4'-DDD	ND	17	µg/kg	5	1909772	11/20/19	11/21/19	EPA 8081A	
4,4'-DDE	ND	17	"	"	"	"	"	"	
4,4'-DDT	ND	17	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
alpha-BHC	ND	8.5	"	"	"	"	"	"	
beta-BHC	ND	8.5	"	"	"	"	"	"	
Chlordane-technical	ND	17	"	"	"	"	"	"	
delta-BHC	ND	8.5	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	8.5	"	"	"	"	"	"	
Endosulfan II	ND	17	"	"	"	"	"	"	
Endosulfan sulfate	ND	17	"	"	"	"	"	"	
Endrin	ND	17	"	"	"	"	"	"	
Endrin aldehyde	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	8.5	"	"	"	"	"	"	
Heptachlor	ND	8.5	"	"	"	"	"	"	
Heptachlor epoxide	ND	8.5	"	"	"	"	"	"	
Methoxychlor	ND	85	"	"	"	"	"	"	

QRL-8



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Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-24 (19K0910-24) Soil Sampled: 11/18/19 09:33 Received: 11/18/19 16:30									
Mirex	ND	17	µg/kg	5	1909772	"	11/21/19	EPA 8081A	
Toxaphene	ND	100	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		71 %		52-141		"	"	"	"
<i>Surrogate: Tetrachloro-meta-xylene</i>		82 %		46-139		"	"	"	"



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Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SP-1 (19K0910-01) Soil Sampled: 11/18/19 08:41 Received: 11/18/19 16:30

Aroclor 1016	ND	20	µg/kg	1	1909755	11/19/19	11/19/19	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	

Surrogate: Decachlorobiphenyl 97% 50-150 " " " "

SP-2 (19K0910-02) Soil Sampled: 11/18/19 08:44 Received: 11/18/19 16:30

Aroclor 1016	ND	20	µg/kg	1	1909755	11/19/19	11/19/19	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	

Surrogate: Decachlorobiphenyl 91% 50-150 " " " "

SP-3 (19K0910-03) Soil Sampled: 11/18/19 08:46 Received: 11/18/19 16:30

Aroclor 1016	ND	20	µg/kg	1	1909755	11/19/19	11/19/19	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	



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Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SP-3 (19K0910-03) Soil Sampled: 11/18/19 08:46 Received: 11/18/19 16:30

Aroclor 1268	ND	20	µg/kg	1	1909755	"	11/19/19	EPA 8082A	
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<i>Surrogate: Decachlorobiphenyl</i>		99 %		50-150		"	"	"	"
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SP-4 (19K0910-04) Soil Sampled: 11/18/19 08:48 Received: 11/18/19 16:30

Aroclor 1016	ND	20	µg/kg	1	1909755	11/19/19	11/19/19	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	

<i>Surrogate: Decachlorobiphenyl</i>		90 %		50-150		"	"	"	"
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SP-5 (19K0910-05) Soil Sampled: 11/18/19 08:50 Received: 11/18/19 16:30

Aroclor 1016	ND	20	µg/kg	1	1909755	11/19/19	11/19/19	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	

<i>Surrogate: Decachlorobiphenyl</i>		97 %		50-150		"	"	"	"
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Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SP-6 (19K0910-06) Soil Sampled: 11/18/19 08:52 Received: 11/18/19 16:30

Aroclor 1016	ND	20	µg/kg	1	1909755	11/19/19	11/19/19	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	

Surrogate: Decachlorobiphenyl 94% 50-150 " " " "

SP-7 (19K0910-07) Soil Sampled: 11/18/19 08:56 Received: 11/18/19 16:30

Aroclor 1016	ND	20	µg/kg	1	1909755	11/19/19	11/19/19	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	

Surrogate: Decachlorobiphenyl 96% 50-150 " " " "

SP-8 (19K0910-08) Soil Sampled: 11/18/19 08:58 Received: 11/18/19 16:30

Aroclor 1016	ND	20	µg/kg	1	1909755	11/19/19	11/19/19	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	



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Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SP-11 (19K0910-11) Soil Sampled: 11/18/19 09:03 Received: 11/18/19 16:30

Aroclor 1016	ND	200	µg/kg	10	1909755	11/19/19	11/19/19	EPA 8082A	
Aroclor 1221	ND	200	"	"	"	"	"	"	
Aroclor 1232	ND	200	"	"	"	"	"	"	
Aroclor 1242	ND	200	"	"	"	"	"	"	
Aroclor 1248	ND	200	"	"	"	"	"	"	
Aroclor 1254	ND	200	"	"	"	"	"	"	
Aroclor 1260	ND	200	"	"	"	"	"	"	
Aroclor 1268	ND	200	"	"	"	"	"	"	

Surrogate: Decachlorobiphenyl 110 % 50-150 " " " "

SP-12 (19K0910-12) Soil Sampled: 11/18/19 09:05 Received: 11/18/19 16:30

Aroclor 1016	ND	200	µg/kg	10	1909755	11/19/19	11/19/19	EPA 8082A	
Aroclor 1221	ND	200	"	"	"	"	"	"	
Aroclor 1232	ND	200	"	"	"	"	"	"	
Aroclor 1242	ND	200	"	"	"	"	"	"	
Aroclor 1248	ND	200	"	"	"	"	"	"	
Aroclor 1254	ND	200	"	"	"	"	"	"	
Aroclor 1260	ND	200	"	"	"	"	"	"	
Aroclor 1268	ND	200	"	"	"	"	"	"	

Surrogate: Decachlorobiphenyl 108 % 50-150 " " " "

SP-13 (19K0910-13) Soil Sampled: 11/18/19 09:08 Received: 11/18/19 16:30

Aroclor 1016	ND	200	µg/kg	10	1909755	11/19/19	11/19/19	EPA 8082A	
Aroclor 1221	ND	200	"	"	"	"	"	"	
Aroclor 1232	ND	200	"	"	"	"	"	"	
Aroclor 1242	ND	200	"	"	"	"	"	"	
Aroclor 1248	ND	200	"	"	"	"	"	"	
Aroclor 1254	ND	200	"	"	"	"	"	"	
Aroclor 1260	ND	200	"	"	"	"	"	"	



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Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SP-13 (19K0910-13) Soil Sampled: 11/18/19 09:08 Received: 11/18/19 16:30

Aroclor 1268	ND	200	µg/kg	10	1909755	"	11/19/19	EPA 8082A	
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Surrogate: Decachlorobiphenyl 115 % 50-150 " " " "

SP-14 (19K0910-14) Soil Sampled: 11/18/19 09:10 Received: 11/18/19 16:30

Aroclor 1016	ND	20	µg/kg	1	1909755	11/19/19	11/19/19	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	

Surrogate: Decachlorobiphenyl 93 % 50-150 " " " "

SP-15 (19K0910-15) Soil Sampled: 11/18/19 09:12 Received: 11/18/19 16:30

Aroclor 1016	ND	20	µg/kg	1	1909755	11/19/19	11/19/19	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	

Surrogate: Decachlorobiphenyl 98 % 50-150 " " " "



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Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-16 (19K0910-16) Soil Sampled: 11/18/19 09:13 Received: 11/18/19 16:30									
Aroclor 1016	ND	20	µg/kg	1	1909755	11/19/19	11/19/19	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	

Surrogate: Decachlorobiphenyl 91 % 50-150 " " " "

SP-17 (19K0910-17) Soil Sampled: 11/18/19 09:15 Received: 11/18/19 16:30									
Aroclor 1016	ND	20	µg/kg	1	1909773	11/20/19	11/20/19	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	41	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	

Surrogate: Decachlorobiphenyl 95 % 50-150 " " " "

SP-18 (19K0910-18) Soil Sampled: 11/18/19 09:17 Received: 11/18/19 16:30									
Aroclor 1016	ND	20	µg/kg	1	1909773	11/20/19	11/20/19	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	



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Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SP-18 (19K0910-18) Soil Sampled: 11/18/19 09:17 Received: 11/18/19 16:30

Aroclor 1268	ND	20	µg/kg	1	1909773	"	11/20/19	EPA 8082A	
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Surrogate: Decachlorobiphenyl 93 % 50-150 " " " "

SP-19 (19K0910-19) Soil Sampled: 11/18/19 09:19 Received: 11/18/19 16:30

Aroclor 1016	ND	20	µg/kg	1	1909773	11/20/19	11/20/19	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	

Surrogate: Decachlorobiphenyl 108 % 50-150 " " " "

SP-20 (19K0910-20) Soil Sampled: 11/18/19 09:21 Received: 11/18/19 16:30

Aroclor 1016	ND	20	µg/kg	1	1909773	11/20/19	11/20/19	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	

Surrogate: Decachlorobiphenyl 98 % 50-150 " " " "



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Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SP-21 (19K0910-21) Soil Sampled: 11/18/19 09:24 Received: 11/18/19 16:30

Aroclor 1016	ND	20	µg/kg	1	1909773	11/20/19	11/20/19	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	

Surrogate: Decachlorobiphenyl 95 % 50-150 " " " "

SP-22 (19K0910-22) Soil Sampled: 11/18/19 09:27 Received: 11/18/19 16:30

Aroclor 1016	ND	20	µg/kg	1	1909773	11/20/19	11/20/19	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	

Surrogate: Decachlorobiphenyl 106 % 50-150 " " " "

SP-23 (19K0910-23) Soil Sampled: 11/18/19 09:30 Received: 11/18/19 16:30

Aroclor 1016	ND	20	µg/kg	1	1909773	11/20/19	11/20/19	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	



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Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-23 (19K0910-23) Soil Sampled: 11/18/19 09:30 Received: 11/18/19 16:30									
Aroclor 1268	ND	20	µg/kg	1	1909773	"	11/20/19	EPA 8082A	
<i>Surrogate: Decachlorobiphenyl</i>		105 %	50-150		"	"	"	"	
SP-24 (19K0910-24) Soil Sampled: 11/18/19 09:33 Received: 11/18/19 16:30									
Aroclor 1016	ND	20	µg/kg	1	1909773	11/20/19	11/20/19	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		102 %	50-150		"	"	"	"	



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TPH-Gasoline by GC FID

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-1 (19K0910-01) Soil Sampled: 11/18/19 08:41 Received: 11/18/19 16:30									
Gasoline	ND	1.0	mg/kg	1	1909742	11/19/19	11/19/19	EPA 8015M	
Surrogate: o-Chlorotoluene (Gas)		81 %	65-135		"	"	"	"	
SP-2 (19K0910-02) Soil Sampled: 11/18/19 08:44 Received: 11/18/19 16:30									
Gasoline	ND	1.0	mg/kg	1	1909742	11/19/19	11/19/19	EPA 8015M	
Surrogate: o-Chlorotoluene (Gas)		79 %	65-135		"	"	"	"	
SP-3 (19K0910-03) Soil Sampled: 11/18/19 08:46 Received: 11/18/19 16:30									
Gasoline	ND	1.0	mg/kg	1	1909742	11/19/19	11/19/19	EPA 8015M	
Surrogate: o-Chlorotoluene (Gas)		84 %	65-135		"	"	"	"	
SP-4 (19K0910-04) Soil Sampled: 11/18/19 08:48 Received: 11/18/19 16:30									
Gasoline	ND	1.0	mg/kg	1	1909742	11/19/19	11/19/19	EPA 8015M	
Surrogate: o-Chlorotoluene (Gas)		79 %	65-135		"	"	"	"	
SP-5 (19K0910-05) Soil Sampled: 11/18/19 08:50 Received: 11/18/19 16:30									
Gasoline	ND	1.0	mg/kg	1	1909742	11/19/19	11/19/19	EPA 8015M	
Surrogate: o-Chlorotoluene (Gas)		81 %	65-135		"	"	"	"	
SP-6 (19K0910-06) Soil Sampled: 11/18/19 08:52 Received: 11/18/19 16:30									
Gasoline	ND	1.0	mg/kg	1	1909742	11/19/19	11/19/19	EPA 8015M	
Surrogate: o-Chlorotoluene (Gas)		81 %	65-135		"	"	"	"	
SP-7 (19K0910-07) Soil Sampled: 11/18/19 08:56 Received: 11/18/19 16:30									
Gasoline	ND	1.0	mg/kg	1	1909742	11/19/19	11/19/19	EPA 8015M	



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TPH-Gasoline by GC FID

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-7 (19K0910-07) Soil Sampled: 11/18/19 08:56 Received: 11/18/19 16:30									
Surrogate: o-Chlorotoluene (Gas)		79 %	65-135		1909742	"	11/19/19	EPA 8015M	
SP-8 (19K0910-08) Soil Sampled: 11/18/19 08:58 Received: 11/18/19 16:30									
Gasoline	ND	1.0	mg/kg	1	1909742	11/19/19	11/19/19	EPA 8015M	
Surrogate: o-Chlorotoluene (Gas)		83 %	65-135		"	"	"	"	
SP-9 (19K0910-09) Soil Sampled: 11/18/19 09:00 Received: 11/18/19 16:30									
Gasoline	ND	1.0	mg/kg	1	1909742	11/19/19	11/19/19	EPA 8015M	
Surrogate: o-Chlorotoluene (Gas)		79 %	65-135		"	"	"	"	
SP-10 (19K0910-10) Soil Sampled: 11/18/19 09:02 Received: 11/18/19 16:30									
Gasoline	ND	1.0	mg/kg	1	1909742	11/19/19	11/19/19	EPA 8015M	
Surrogate: o-Chlorotoluene (Gas)		79 %	65-135		"	"	"	"	
SP-11 (19K0910-11) Soil Sampled: 11/18/19 09:03 Received: 11/18/19 16:30									
Gasoline	ND	1.0	mg/kg	1	1909742	11/19/19	11/19/19	EPA 8015M	
Surrogate: o-Chlorotoluene (Gas)		70 %	65-135		"	"	"	"	
SP-12 (19K0910-12) Soil Sampled: 11/18/19 09:05 Received: 11/18/19 16:30									
Gasoline	ND	1.0	mg/kg	1	1909742	11/19/19	11/19/19	EPA 8015M	
Surrogate: o-Chlorotoluene (Gas)		80 %	65-135		"	"	"	"	
SP-13 (19K0910-13) Soil Sampled: 11/18/19 09:08 Received: 11/18/19 16:30									
Gasoline	ND	1.0	mg/kg	1	1909742	11/19/19	11/19/19	EPA 8015M	
Surrogate: o-Chlorotoluene (Gas)		81 %	65-135		"	"	"	"	



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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K0910 COC #: 461037 & 880876
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TPH-Gasoline by GC FID

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-14 (19K0910-14) Soil Sampled: 11/18/19 09:10 Received: 11/18/19 16:30									
Gasoline	ND	1.0	mg/kg	1	1909742	11/19/19	11/19/19	EPA 8015M	
Surrogate: o-Chlorotoluene (Gas)		85 %	65-135		"	"	"	"	
SP-15 (19K0910-15) Soil Sampled: 11/18/19 09:12 Received: 11/18/19 16:30									
Gasoline	ND	1.0	mg/kg	1	1909742	11/19/19	11/19/19	EPA 8015M	
Surrogate: o-Chlorotoluene (Gas)		80 %	65-135		"	"	"	"	
SP-16 (19K0910-16) Soil Sampled: 11/18/19 09:13 Received: 11/18/19 16:30									
Gasoline	ND	1.0	mg/kg	1	1909742	11/19/19	11/19/19	EPA 8015M	
Surrogate: o-Chlorotoluene (Gas)		83 %	65-135		"	"	"	"	
SP-17 (19K0910-17) Soil Sampled: 11/18/19 09:15 Received: 11/18/19 16:30									
Gasoline	ND	1.0	mg/kg	1	1909742	11/19/19	11/19/19	EPA 8015M	
Surrogate: o-Chlorotoluene (Gas)		79 %	65-135		"	"	"	"	
SP-18 (19K0910-18) Soil Sampled: 11/18/19 09:17 Received: 11/18/19 16:30									
Gasoline	ND	1.0	mg/kg	1	1909742	11/19/19	11/19/19	EPA 8015M	
Surrogate: o-Chlorotoluene (Gas)		78 %	65-135		"	"	"	"	
SP-19 (19K0910-19) Soil Sampled: 11/18/19 09:19 Received: 11/18/19 16:30									
Gasoline	ND	1.0	mg/kg	1	1909742	11/19/19	11/19/19	EPA 8015M	
Surrogate: o-Chlorotoluene (Gas)		80 %	65-135		"	"	"	"	
SP-20 (19K0910-20) Soil Sampled: 11/18/19 09:21 Received: 11/18/19 16:30									
Gasoline	ND	1.0	mg/kg	1	1909742	11/19/19	11/19/19	EPA 8015M	



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TPH-Gasoline by GC FID

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-20 (19K0910-20) Soil Sampled: 11/18/19 09:21 Received: 11/18/19 16:30									
Surrogate: o-Chlorotoluene (Gas)		82 %	65-135		1909742	"	11/19/19	EPA 8015M	
SP-21 (19K0910-21) Soil Sampled: 11/18/19 09:24 Received: 11/18/19 16:30									
Gasoline	ND	1.0	mg/kg	1	1909743	11/19/19	11/19/19	EPA 8015M	
Surrogate: o-Chlorotoluene (Gas)		78 %	65-135		"	"	"	"	
SP-22 (19K0910-22) Soil Sampled: 11/18/19 09:27 Received: 11/18/19 16:30									
Gasoline	ND	1.0	mg/kg	1	1909743	11/19/19	11/19/19	EPA 8015M	
Surrogate: o-Chlorotoluene (Gas)		76 %	65-135		"	"	"	"	
SP-23 (19K0910-23) Soil Sampled: 11/18/19 09:30 Received: 11/18/19 16:30									
Gasoline	ND	1.0	mg/kg	1	1909743	11/19/19	11/19/19	EPA 8015M	
Surrogate: o-Chlorotoluene (Gas)		88 %	65-135		"	"	"	"	
SP-24 (19K0910-24) Soil Sampled: 11/18/19 09:33 Received: 11/18/19 16:30									
Gasoline	ND	1.0	mg/kg	1	1909743	11/19/19	11/19/19	EPA 8015M	
Surrogate: o-Chlorotoluene (Gas)		80 %	65-135		"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-1 (19K0910-01) Soil Sampled: 11/18/19 08:41 Received: 11/18/19 16:30									
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	1909783	11/19/19	11/19/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-1 (19K0910-01) Soil Sampled: 11/18/19 08:41 Received: 11/18/19 16:30									
Bromoform	ND	5.0	µg/kg	1	1909783	"	11/19/19	EPA 8260B	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-1 (19K0910-01) Soil Sampled: 11/18/19 08:41 Received: 11/18/19 16:30									
Toluene	ND	5.0	µg/kg	1	1909783	"	11/19/19	EPA 8260B	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	107 %	50-125	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	50-128	"	"	"	"	"	"
Surrogate: Toluene-d8	98 %	62-125	"	"	"	"	"	"

SP-2 (19K0910-02) Soil Sampled: 11/18/19 08:44 Received: 11/18/19 16:30									
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	1909783	11/19/19	11/19/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-2 (19K0910-02) Soil Sampled: 11/18/19 08:44 Received: 11/18/19 16:30									
1,3-Dichlorobenzene	ND	5.0	µg/kg	1	1909783	"	11/19/19	EPA 8260B	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-2 (19K0910-02) Soil Sampled: 11/18/19 08:44 Received: 11/18/19 16:30									
Naphthalene	ND	5.0	µg/kg	1	1909783	"	11/19/19	EPA 8260B	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	116 %	50-125	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	122 %	50-128	"	"	"	"	"
Surrogate: Toluene-d8	93 %	62-125	"	"	"	"	"

SP-3 (19K0910-03) Soil Sampled: 11/18/19 08:46 Received: 11/18/19 16:30									
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	1909783	11/19/19	11/19/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-3 (19K0910-03) Soil Sampled: 11/18/19 08:46 Received: 11/18/19 16:30									
1,1-Dichloroethene	ND	5.0	µg/kg	1	1909783	"	11/19/19	EPA 8260B	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	



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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K0910 COC #: 461037 & 880876
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-3 (19K0910-03) Soil Sampled: 11/18/19 08:46 Received: 11/18/19 16:30									
cis-1,2-Dichloroethene	ND	5.0	µg/kg	1	1909783	"	11/19/19	EPA 8260B	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	



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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K0910 COC #: 461037 & 880876
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-3 (19K0910-03) Soil Sampled: 11/18/19 08:46 Received: 11/18/19 16:30									
Surrogate: 1,2-Dichloroethane-d4		121 %		50-125	1909783	"	11/19/19	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		122 %		50-128	"	"	"	"	
Surrogate: Toluene-d8		97 %		62-125	"	"	"	"	
SP-4 (19K0910-04) Soil Sampled: 11/18/19 08:48 Received: 11/18/19 16:30									
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	1909784	11/19/19	11/19/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	



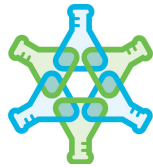
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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K0910 COC #: 461037 & 880876
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-4 (19K0910-04) Soil Sampled: 11/18/19 08:48 Received: 11/18/19 16:30									
Benzene	ND	5.0	µg/kg	1	1909784	"	11/19/19	EPA 8260B	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SP-4 (19K0910-04) Soil Sampled: 11/18/19 08:48 Received: 11/18/19 16:30

tert-Amyl methyl ether	ND	5.0	µg/kg	1	1909784	"	11/19/19	EPA 8260B	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	120 %	50-125	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	115 %	50-128	"	"	"	"	"	"	
Surrogate: Toluene-d8	96 %	62-125	"	"	"	"	"	"	

SP-5 (19K0910-05) Soil Sampled: 11/18/19 08:50 Received: 11/18/19 16:30

1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	1909784	11/19/19	11/19/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-5 (19K0910-05) Soil Sampled: 11/18/19 08:50 Received: 11/18/19 16:30									
1,2-Dichlorobenzene	ND	5.0	µg/kg	1	1909784	"	11/19/19	EPA 8260B	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-5 (19K0910-05) Soil Sampled: 11/18/19 08:50 Received: 11/18/19 16:30									
Hexachlorobutadiene	ND	5.0	µg/kg	1	1909784	"	11/19/19	EPA 8260B	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	121 %	50-125	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	112 %	50-128	"	"	"	"	"
Surrogate: Toluene-d8	93 %	62-125	"	"	"	"	"



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-6 (19K0910-06) Soil Sampled: 11/18/19 08:52 Received: 11/18/19 16:30									
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	1909784	11/19/19	11/19/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	



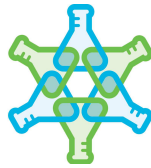
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-6 (19K0910-06) Soil Sampled: 11/18/19 08:52 Received: 11/18/19 16:30									
Bromoform	ND	5.0	µg/kg	1	1909784	"	11/19/19	EPA 8260B	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	



Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K0910 COC #: 461037 & 880876
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-6 (19K0910-06) Soil Sampled: 11/18/19 08:52 Received: 11/18/19 16:30									
Toluene	ND	5.0	µg/kg	1	1909784	"	11/19/19	EPA 8260B	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	

<i>Surrogate: 1,2-Dichloroethane-d4</i>	120 %	50-125	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>	116 %	50-128	"	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>	96 %	62-125	"	"	"	"	"	"

SP-7 (19K0910-07) Soil Sampled: 11/18/19 08:56 Received: 11/18/19 16:30									
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	1909784	11/19/19	11/19/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-7 (19K0910-07) Soil Sampled: 11/18/19 08:56 Received: 11/18/19 16:30									
1,3-Dichlorobenzene	ND	5.0	µg/kg	1	1909784	"	11/19/19	EPA 8260B	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-7 (19K0910-07) Soil Sampled: 11/18/19 08:56 Received: 11/18/19 16:30									
Naphthalene	ND	5.0	µg/kg	1	1909784	"	11/19/19	EPA 8260B	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	120 %	50-125	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	123 %	50-128	"	"	"	"	"
Surrogate: Toluene-d8	90 %	62-125	"	"	"	"	"

SP-8 (19K0910-08) Soil Sampled: 11/18/19 08:58 Received: 11/18/19 16:30									
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	1909784	11/19/19	11/19/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-8 (19K0910-08) Soil Sampled: 11/18/19 08:58 Received: 11/18/19 16:30									
1,1-Dichloroethene	ND	5.0	µg/kg	1	1909784	"	11/19/19	EPA 8260B	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	



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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K0910 COC #: 461037 & 880876
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-8 (19K0910-08) Soil Sampled: 11/18/19 08:58 Received: 11/18/19 16:30									
cis-1,2-Dichloroethene	ND	5.0	µg/kg	1	1909784	"	11/19/19	EPA 8260B	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-8 (19K0910-08) Soil Sampled: 11/18/19 08:58 Received: 11/18/19 16:30									
Surrogate: 1,2-Dichloroethane-d4		120 %		50-125	1909784	"	11/19/19	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		112 %		50-128	"	"	"	"	
Surrogate: Toluene-d8		94 %		62-125	"	"	"	"	
SP-9 (19K0910-09) Soil Sampled: 11/18/19 09:00 Received: 11/18/19 16:30									
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	1909784	11/19/19	11/19/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	



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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K0910 COC #: 461037 & 880876
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-9 (19K0910-09) Soil Sampled: 11/18/19 09:00 Received: 11/18/19 16:30									
Benzene	ND	5.0	µg/kg	1	1909784	"	11/19/19	EPA 8260B	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	



CALIFORNIA LABORATORY SERVICES

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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K0910 COC #: 461037 & 880876
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SP-9 (19K0910-09) Soil Sampled: 11/18/19 09:00 Received: 11/18/19 16:30

tert-Amyl methyl ether	ND	5.0	µg/kg	1	1909784	"	11/19/19	EPA 8260B	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4		119 %		50-125	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		118 %		50-128	"	"	"	"	
Surrogate: Toluene-d8		97 %		62-125	"	"	"	"	

SP-10 (19K0910-10) Soil Sampled: 11/18/19 09:02 Received: 11/18/19 16:30

1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	1909784	11/19/19	11/19/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-10 (19K0910-10) Soil Sampled: 11/18/19 09:02 Received: 11/18/19 16:30									
1,2-Dichlorobenzene	ND	5.0	µg/kg	1	1909784	"	11/19/19	EPA 8260B	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-10 (19K0910-10) Soil Sampled: 11/18/19 09:02 Received: 11/18/19 16:30									
Hexachlorobutadiene	ND	5.0	µg/kg	1	1909784	"	11/19/19	EPA 8260B	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	121 %	50-125	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	138 %	50-128	"	"	"	"	"	"	QS-4
Surrogate: Toluene-d8	97 %	62-125	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-11 (19K0910-11) Soil Sampled: 11/18/19 09:03 Received: 11/18/19 16:30									
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	1909784	11/19/19	11/19/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-11 (19K0910-11) Soil Sampled: 11/18/19 09:03 Received: 11/18/19 16:30									
Bromoform	ND	5.0	µg/kg	1	1909784	"	11/19/19	EPA 8260B	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-11 (19K0910-11) Soil Sampled: 11/18/19 09:03 Received: 11/18/19 16:30									
Toluene	ND	5.0	µg/kg	1	1909784	"	11/19/19	EPA 8260B	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	118 %	50-125	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	124 %	50-128	"	"	"	"	"	"
Surrogate: Toluene-d8	94 %	62-125	"	"	"	"	"	"

SP-12 (19K0910-12) Soil Sampled: 11/18/19 09:05 Received: 11/18/19 16:30									
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	1909784	11/19/19	11/19/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-12 (19K0910-12) Soil Sampled: 11/18/19 09:05 Received: 11/18/19 16:30									
1,3-Dichlorobenzene	ND	5.0	µg/kg	1	1909784	"	11/19/19	EPA 8260B	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	



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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K0910 COC #: 461037 & 880876
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-12 (19K0910-12) Soil Sampled: 11/18/19 09:05 Received: 11/18/19 16:30									
Naphthalene	ND	5.0	µg/kg	1	1909784	"	11/19/19	EPA 8260B	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	119 %	50-125	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	117 %	50-128	"	"	"	"	"
Surrogate: Toluene-d8	92 %	62-125	"	"	"	"	"

SP-13 (19K0910-13) Soil Sampled: 11/18/19 09:08 Received: 11/18/19 16:30									
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	1909784	11/19/19	11/20/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	



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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K0910 COC #: 461037 & 880876
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-13 (19K0910-13) Soil Sampled: 11/18/19 09:08 Received: 11/18/19 16:30									
1,1-Dichloroethene	ND	5.0	µg/kg	1	1909784	"	11/20/19	EPA 8260B	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-13 (19K0910-13) Soil Sampled: 11/18/19 09:08 Received: 11/18/19 16:30									
cis-1,2-Dichloroethene	ND	5.0	µg/kg	1	1909784	"	11/20/19	EPA 8260B	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	



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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K0910 COC #: 461037 & 880876
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-13 (19K0910-13) Soil Sampled: 11/18/19 09:08 Received: 11/18/19 16:30									
Surrogate: 1,2-Dichloroethane-d4		121 %		50-125	1909784	"	11/20/19	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		119 %		50-128	"	"	"	"	
Surrogate: Toluene-d8		95 %		62-125	"	"	"	"	
SP-14 (19K0910-14) Soil Sampled: 11/18/19 09:10 Received: 11/18/19 16:30									
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	1909784	11/19/19	11/20/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-14 (19K0910-14) Soil Sampled: 11/18/19 09:10 Received: 11/18/19 16:30									
Benzene	ND	5.0	µg/kg	1	1909784	"	11/20/19	EPA 8260B	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SP-14 (19K0910-14) Soil Sampled: 11/18/19 09:10 Received: 11/18/19 16:30

tert-Amyl methyl ether	ND	5.0	µg/kg	1	1909784	"	11/20/19	EPA 8260B	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	176 %	50-125	"	"	"	"	"	"	QS-4
Surrogate: 4-Bromofluorobenzene	122 %	50-128	"	"	"	"	"	"	
Surrogate: Toluene-d8	94 %	62-125	"	"	"	"	"	"	

SP-15 (19K0910-15) Soil Sampled: 11/18/19 09:12 Received: 11/18/19 16:30

1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	1909784	11/19/19	11/20/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-15 (19K0910-15) Soil Sampled: 11/18/19 09:12 Received: 11/18/19 16:30									
1,2-Dichlorobenzene	ND	5.0	µg/kg	1	1909784	"	11/20/19	EPA 8260B	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-15 (19K0910-15) Soil Sampled: 11/18/19 09:12 Received: 11/18/19 16:30									
Hexachlorobutadiene	ND	5.0	µg/kg	1	1909784	"	11/20/19	EPA 8260B	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	122 %	50-125	"	"	"	"
Surrogate: 4-Bromofluorobenzene	120 %	50-128	"	"	"	"
Surrogate: Toluene-d8	92 %	62-125	"	"	"	"



CALIFORNIA LABORATORY SERVICES

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-16 (19K0910-16) Soil Sampled: 11/18/19 09:13 Received: 11/18/19 16:30									
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	1909784	11/19/19	11/20/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	



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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K0910 COC #: 461037 & 880876
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-16 (19K0910-16) Soil Sampled: 11/18/19 09:13 Received: 11/18/19 16:30									
Bromoform	ND	5.0	µg/kg	1	1909784	"	11/20/19	EPA 8260B	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	



CALIFORNIA LABORATORY SERVICES

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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K0910 COC #: 461037 & 880876
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-16 (19K0910-16) Soil Sampled: 11/18/19 09:13 Received: 11/18/19 16:30									
Toluene	ND	5.0	µg/kg	1	1909784	"	11/20/19	EPA 8260B	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4		120 %		50-125	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		132 %		50-128	"	"	"	"	QS-4
Surrogate: Toluene-d8		95 %		62-125	"	"	"	"	

SP-17 (19K0910-17) Soil Sampled: 11/18/19 09:15 Received: 11/18/19 16:30									
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	1909784	11/19/19	11/20/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-17 (19K0910-17) Soil Sampled: 11/18/19 09:15 Received: 11/18/19 16:30									
1,3-Dichlorobenzene	ND	5.0	µg/kg	1	1909784	"	11/20/19	EPA 8260B	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	



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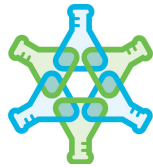
Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K0910 COC #: 461037 & 880876
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-17 (19K0910-17) Soil Sampled: 11/18/19 09:15 Received: 11/18/19 16:30									
Naphthalene	ND	5.0	µg/kg	1	1909784	"	11/20/19	EPA 8260B	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	155 %	50-125	"	"	"	"	"	"	QS-4
Surrogate: 4-Bromofluorobenzene	129 %	50-128	"	"	"	"	"	"	QS-4
Surrogate: Toluene-d8	94 %	62-125	"	"	"	"	"	"	

SP-18 (19K0910-18) Soil Sampled: 11/18/19 09:17 Received: 11/18/19 16:30									
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	1909784	11/19/19	11/20/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	



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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K0910 COC #: 461037 & 880876
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-18 (19K0910-18) Soil Sampled: 11/18/19 09:17 Received: 11/18/19 16:30									
1,1-Dichloroethene	ND	5.0	µg/kg	1	1909784	"	11/20/19	EPA 8260B	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	



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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K0910 COC #: 461037 & 880876
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-18 (19K0910-18) Soil Sampled: 11/18/19 09:17 Received: 11/18/19 16:30									
cis-1,2-Dichloroethene	ND	5.0	µg/kg	1	1909784	"	11/20/19	EPA 8260B	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	



CALIFORNIA LABORATORY SERVICES

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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K0910 COC #: 461037 & 880876
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-18 (19K0910-18) Soil Sampled: 11/18/19 09:17 Received: 11/18/19 16:30									
Surrogate: 1,2-Dichloroethane-d4		122 %		50-125	1909784	"	11/20/19	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		123 %		50-128	"	"	"	"	
Surrogate: Toluene-d8		99 %		62-125	"	"	"	"	
SP-19 (19K0910-19) Soil Sampled: 11/18/19 09:19 Received: 11/18/19 16:30									
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	1909784	11/19/19	11/20/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	



CALIFORNIA LABORATORY SERVICES

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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K0910 COC #: 461037 & 880876
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-19 (19K0910-19) Soil Sampled: 11/18/19 09:19 Received: 11/18/19 16:30									
Benzene	ND	5.0	µg/kg	1	1909784	"	11/20/19	EPA 8260B	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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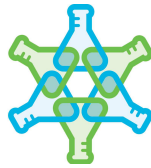
SP-19 (19K0910-19) Soil Sampled: 11/18/19 09:19 Received: 11/18/19 16:30

tert-Amyl methyl ether	ND	5.0	µg/kg	1	1909784	"	11/20/19	EPA 8260B	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	120 %	50-125	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	118 %	50-128	"	"	"	"	"	"	
Surrogate: Toluene-d8	95 %	62-125	"	"	"	"	"	"	

SP-20 (19K0910-20) Soil Sampled: 11/18/19 09:21 Received: 11/18/19 16:30

1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	1909784	11/19/19	11/20/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-20 (19K0910-20) Soil Sampled: 11/18/19 09:21 Received: 11/18/19 16:30									
1,2-Dichlorobenzene	ND	5.0	µg/kg	1	1909784	"	11/20/19	EPA 8260B	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	



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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K0910 COC #: 461037 & 880876
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-20 (19K0910-20) Soil Sampled: 11/18/19 09:21 Received: 11/18/19 16:30									
Hexachlorobutadiene	ND	5.0	µg/kg	1	1909784	"	11/20/19	EPA 8260B	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	152 %	50-125	"	"	"	"	"	"	QS-4
Surrogate: 4-Bromofluorobenzene	115 %	50-128	"	"	"	"	"	"	
Surrogate: Toluene-d8	97 %	62-125	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-21 (19K0910-21) Soil Sampled: 11/18/19 09:24 Received: 11/18/19 16:30									
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	1909784	11/19/19	11/20/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-21 (19K0910-21) Soil Sampled: 11/18/19 09:24 Received: 11/18/19 16:30									
Bromoform	ND	5.0	µg/kg	1	1909784	"	11/20/19	EPA 8260B	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-21 (19K0910-21) Soil Sampled: 11/18/19 09:24 Received: 11/18/19 16:30									
Toluene	ND	5.0	µg/kg	1	1909784	"	11/20/19	EPA 8260B	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4		162 %		50-125	"	"	"	"	QS-4
Surrogate: 4-Bromofluorobenzene		117 %		50-128	"	"	"	"	
Surrogate: Toluene-d8		90 %		62-125	"	"	"	"	

SP-22 (19K0910-22) Soil Sampled: 11/18/19 09:27 Received: 11/18/19 16:30									
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	1909784	11/19/19	11/20/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	



CALIFORNIA LABORATORY SERVICES

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-22 (19K0910-22) Soil Sampled: 11/18/19 09:27 Received: 11/18/19 16:30									
1,3-Dichlorobenzene	ND	5.0	µg/kg	1	1909784	"	11/20/19	EPA 8260B	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	



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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K0910 COC #: 461037 & 880876
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-22 (19K0910-22) Soil Sampled: 11/18/19 09:27 Received: 11/18/19 16:30									
Naphthalene	ND	5.0	µg/kg	1	1909784	"	11/20/19	EPA 8260B	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	168 %	50-125	"	"	"	"	"	"	QS-4
Surrogate: 4-Bromofluorobenzene	117 %	50-128	"	"	"	"	"	"	
Surrogate: Toluene-d8	92 %	62-125	"	"	"	"	"	"	

SP-23 (19K0910-23) Soil Sampled: 11/18/19 09:30 Received: 11/18/19 16:30									
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	1909784	11/19/19	11/20/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-23 (19K0910-23) Soil Sampled: 11/18/19 09:30 Received: 11/18/19 16:30									
1,1-Dichloroethene	ND	5.0	µg/kg	1	1909784	"	11/20/19	EPA 8260B	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-23 (19K0910-23) Soil Sampled: 11/18/19 09:30 Received: 11/18/19 16:30									
cis-1,2-Dichloroethene	ND	5.0	µg/kg	1	1909784	"	11/20/19	EPA 8260B	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-23 (19K0910-23) Soil Sampled: 11/18/19 09:30 Received: 11/18/19 16:30									
Surrogate: 1,2-Dichloroethane-d4		165 %		50-125	1909784	"	11/20/19	EPA 8260B	QS-4
Surrogate: 4-Bromofluorobenzene		113 %		50-128	"	"	"	"	
Surrogate: Toluene-d8		93 %		62-125	"	"	"	"	
SP-24 (19K0910-24) Soil Sampled: 11/18/19 09:33 Received: 11/18/19 16:30									
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	1909784	11/19/19	11/20/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-24 (19K0910-24) Soil Sampled: 11/18/19 09:33 Received: 11/18/19 16:30									
Benzene	ND	5.0	µg/kg	1	1909784	"	11/20/19	EPA 8260B	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-24 (19K0910-24) Soil Sampled: 11/18/19 09:33 Received: 11/18/19 16:30									
tert-Amyl methyl ether	ND	5.0	µg/kg	1	1909784	"	11/20/19	EPA 8260B	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		159 %		50-125	"	"	"	"	QS-4
<i>Surrogate: 4-Bromofluorobenzene</i>		110 %		50-128	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		95 %		62-125	"	"	"	"	



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CAM 17 Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1909790 - EPA 3050B

Blank (1909790-BLK1)

Prepared & Analyzed: 11/20/19

Antimony	ND	2.5	mg/kg							
Beryllium	ND	1.0	"							
Vanadium	ND	2.0	"							
Barium	ND	1.0	"							
Cobalt	ND	1.0	"							
Chromium	ND	1.0	"							
Zinc	ND	5.0	"							
Copper	ND	1.0	"							
Arsenic	ND	2.0	"							
Lead	ND	2.5	"							
Selenium	ND	5.0	"							
Molybdenum	ND	1.0	"							
Silver	ND	2.0	"							
Nickel	ND	1.0	"							
Cadmium	ND	1.0	"							
Thallium	ND	2.0	"							

LCS (1909790-BS1)

Prepared & Analyzed: 11/20/19

Antimony	99.4	2.5	mg/kg	100	99	75-125
Beryllium	97.4	1.0	"	100	97	75-125
Barium	106	1.0	"	100	106	75-125
Vanadium	110	2.0	"	100	110	75-125
Cobalt	104	1.0	"	100	104	75-125
Chromium	102	1.0	"	100	102	75-125
Zinc	102	5.0	"	100	102	75-125
Copper	91.7	1.0	"	100	92	75-125
Arsenic	102	2.0	"	100	102	75-125
Selenium	102	5.0	"	100	102	75-125
Lead	104	2.5	"	100	104	75-125
Molybdenum	108	1.0	"	100	108	75-125
Silver	52.8	2.0	"	50.0	106	75-125
Nickel	102	1.0	"	100	102	75-125



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CAM 17 Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1909790 - EPA 3050B

LCS (1909790-BS1)

Prepared: 11/20/19 Analyzed: 11/21/19

Cadmium	106	1.0	mg/kg	100		106	75-125			
Thallium	90.4	2.0	"	100		90	75-125			

Matrix Spike (1909790-MS1)

Source: 19K0910-01

Prepared & Analyzed: 11/20/19

Antimony	30.5	2.5	mg/kg	100	ND	31	75-125			QM-5
Beryllium	89.2	1.0	"	100	0.333	89	75-125			
Barium	246	1.0	"	100	155	91	75-125			
Vanadium	166	2.0	"	100	64.4	101	75-125			
Cobalt	104	1.0	"	100	15.5	89	75-125			
Chromium	163	1.0	"	100	72.2	91	75-125			
Zinc	155	5.0	"	100	59.7	95	75-125			
Copper	105	1.0	"	100	27.2	78	75-125			
Arsenic	106	2.0	"	100	5.94	100	75-125			
Lead	95.7	2.5	"	100	8.26	87	75-125			
Selenium	99.5	5.0	"	100	0.378	99	75-125			
Molybdenum	93.1	1.0	"	100	ND	93	75-125			
Silver	48.4	2.0	"	50.0	ND	97	75-125			
Nickel	210	1.0	"	100	124	86	75-125			
Cadmium	104	1.0	"	100	ND	104	75-125			
Thallium	91.5	2.0	"	100	1.02	90	75-125			

Matrix Spike Dup (1909790-MSD1)

Source: 19K0910-01

Prepared & Analyzed: 11/20/19

Antimony	32.4	2.5	mg/kg	100	ND	32	75-125	6	30	QM-5
Beryllium	95.3	1.0	"	100	0.333	95	75-125	7	30	
Barium	273	1.0	"	100	155	117	75-125	10	30	
Vanadium	188	2.0	"	100	64.4	123	75-125	12	30	
Beryllium	82.0	1.0	"	100	ND	82	75-125	5	30	
Cobalt	107	1.0	"	100	15.5	92	75-125	3	30	
Chromium	173	1.0	"	100	72.2	100	75-125	6	30	
Zinc	176	5.0	"	100	59.7	117	75-125	13	30	
Copper	109	1.0	"	100	27.2	82	75-125	4	30	
Arsenic	115	2.0	"	100	5.94	109	75-125	9	30	



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CAM 17 Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1909790 - EPA 3050B

Matrix Spike Dup (1909790-MSD1)		Source: 19K0910-01		Prepared & Analyzed: 11/20/19						
Lead	101	2.5	mg/kg	100	8.26	92	75-125	5	30	
Selenium	109	5.0	"	100	0.378	108	75-125	9	30	
Silver	52.5	2.0	"	50.0	ND	105	75-125	8	30	
Molybdenum	95.0	1.0	"	100	ND	95	75-125	2	30	
Nickel	226	1.0	"	100	124	101	75-125	7	30	
Cadmium	115	1.0	"	100	ND	115	75-125	10	30	
Silver	57.9	1.0	"	50.0	15.3	85	75-125	0.7	30	
Thallium	100	2.0	"	100	1.02	99	75-125	9	30	

Batch 1909793 - EPA 7471A

Blank (1909793-BLK1)		Prepared & Analyzed: 11/20/19								
Mercury	ND	0.10	mg/kg							

LCS (1909793-BS1)		Prepared & Analyzed: 11/20/19								
Mercury	0.198	0.10	mg/kg	0.208		95	75-125			

Matrix Spike (1909793-MS1)		Source: 19K0910-01		Prepared & Analyzed: 11/20/19						
Mercury	0.241	0.10	mg/kg	0.208	0.103	66	75-125			QM-5

Matrix Spike Dup (1909793-MSD1)		Source: 19K0910-01		Prepared & Analyzed: 11/20/19						
Mercury	0.270	0.10	mg/kg	0.208	0.103	80	75-125	12	25	

Batch 1909831 - EPA 3050B

Blank (1909831-BLK1)		Prepared & Analyzed: 11/21/19								
Antimony	ND	2.5	mg/kg							
Beryllium	ND	1.0	"							
Cadmium	ND	1.0	"							
Cobalt	ND	1.0	"							
Chromium	ND	1.0	"							
Copper	ND	1.0	"							
Arsenic	ND	2.0	"							
Selenium	ND	5.0	"							



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CAM 17 Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1909831 - EPA 3050B

Blank (1909831-BLK1)

Prepared & Analyzed: 11/21/19

Lead	ND	2.5	mg/kg							
Silver	2.55	2.0	"							A-COM
Molybdenum	ND	1.0	"							
Nickel	ND	1.0	"							
Silver	ND	1.0	"							
Barium	ND	2.0	"							
Vanadium	ND	1.0	"							
Thallium	ND	2.0	"							
Zinc	ND	1.0	"							

LCS (1909831-BS1)

Prepared & Analyzed: 11/21/19

Antimony	98.9	2.5	mg/kg	100		99	75-125			
Beryllium	99.9	1.0	"	100		100	75-125			
Cadmium	106	1.0	"	100		106	75-125			
Cobalt	105	1.0	"	100		105	75-125			
Chromium	106	1.0	"	100		106	75-125			
Copper	99.8	1.0	"	100		100	75-125			
Arsenic	117	2.0	"	100		117	75-125			
Lead	106	2.5	"	100		106	75-125			
Selenium	120	5.0	"	100		120	75-125			
Molybdenum	102	1.0	"	100		102	75-125			
Silver	73.7	2.0	"	50.0		147	75-125			QM-1
Nickel	102	1.0	"	100		102	75-125			
Silver	50.5	1.0	"	50.0		101	75-125			
Barium	120	2.0	"	100		120	75-125			
Vanadium	101	1.0	"	100		101	75-125			
Thallium	108	2.0	"	100		108	75-125			
Zinc	100	1.0	"	100		100	75-125			



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CAM 17 Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1909831 - EPA 3050B

Matrix Spike (1909831-MS1)

Source: 19K0910-21

Prepared & Analyzed: 11/21/19

Antimony	27.3	2.5	mg/kg	100	ND	27	75-125			QM-5
Beryllium	90.6	1.0	"	100	ND	91	75-125			
Cadmium	93.9	1.0	"	100	0.397	94	75-125			
Cobalt	105	1.0	"	100	16.7	88	75-125			
Chromium	188	1.0	"	100	132	56	75-125			QM-5
Copper	148	1.0	"	100	60.7	87	75-125			
Arsenic	111	2.0	"	100	8.69	103	75-125			
Lead	97.7	2.5	"	100	8.08	90	75-125			
Selenium	105	5.0	"	100	0.718	105	75-125			
Molybdenum	85.6	1.0	"	100	0.595	85	75-125			
Silver	52.6	2.0	"	50.0	2.76	100	75-125			
Nickel	229	1.0	"	100	125	104	75-125			
Silver	89.7	1.0	"	50.0	36.2	107	75-125			
Barium	299	2.0	"	100	185	114	75-125			
Vanadium	159	1.0	"	100	63.9	95	75-125			
Thallium	97.4	2.0	"	100	0.689	97	75-125			
Zinc	166	1.0	"	100	75.1	91	75-125			

Matrix Spike Dup (1909831-MSD1)

Source: 19K0910-21

Prepared & Analyzed: 11/21/19

Antimony	34.2	2.5	mg/kg	100	ND	34	75-125	23	30	QM-5
Beryllium	91.8	1.0	"	100	ND	92	75-125	1	30	
Cadmium	92.9	1.0	"	100	0.397	93	75-125	1	30	
Cobalt	103	1.0	"	100	16.7	86	75-125	2	30	
Chromium	179	1.0	"	100	132	47	75-125	5	30	QM-5
Copper	144	1.0	"	100	60.7	84	75-125	2	30	
Arsenic	103	2.0	"	100	8.69	94	75-125	8	30	
Lead	95.4	2.5	"	100	8.08	87	75-125	2	30	
Selenium	97.3	5.0	"	100	0.718	97	75-125	8	30	
Molybdenum	86.0	1.0	"	100	0.595	85	75-125	0.5	30	
Silver	47.6	2.0	"	50.0	2.76	90	75-125	10	30	
Nickel	195	1.0	"	100	125	70	75-125	16	30	QM-5
Silver	36.1	1.0	"	50.0	36.2	NR	75-125	85	30	QM-5



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CAM 17 Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1909831 - EPA 3050B

Matrix Spike Dup (1909831-MSD1)	Source: 19K0910-21			Prepared: 11/21/19 Analyzed: 11/22/19						
Barium	263	2.0	mg/kg	100	185	78	75-125	13	30	
Thallium	92.2	2.0	"	100	0.689	92	75-125	5	30	
Vanadium	150	1.0	"	100	63.9	86	75-125	6	30	
Zinc	159	1.0	"	100	75.1	84	75-125	4	30	

Batch 1909846 - EPA 7471A

Blank (1909846-BLK1)	Prepared: 11/21/19 Analyzed: 11/25/19									
Mercury	ND	0.10	mg/kg							

LCS (1909846-BS1)	Prepared: 11/21/19 Analyzed: 11/25/19									
Mercury	0.194	0.10	mg/kg	0.208		93	75-125			

Matrix Spike (1909846-MS1)	Source: 19K0910-23			Prepared: 11/21/19 Analyzed: 11/25/19						
Mercury	0.214	0.10	mg/kg	0.208	0.0526	77	75-125			

Matrix Spike Dup (1909846-MSD1)	Source: 19K0910-23			Prepared: 11/21/19 Analyzed: 11/25/19						
Mercury	0.226	0.10	mg/kg	0.208	0.0526	83	75-125	5	25	



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Extractable Petroleum Hydrocarbons by EPA Method 8015M - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1909674 - EPA 3510B GCNV										
Blank (1909674-BLK1) Prepared & Analyzed: 11/18/19										
Diesel	ND	1.0	mg/kg							
Motor Oil	ND	1.0	"							
Surrogate: <i>o</i> -Terphenyl	0.428		"	0.500		86	65-135			
LCS (1909674-BS1) Prepared & Analyzed: 11/18/19										
Diesel	36.1	1.0	mg/kg	50.0		72	65-135			
Surrogate: <i>o</i> -Terphenyl	0.380		"	0.500		76	65-135			
LCS Dup (1909674-BSD1) Prepared & Analyzed: 11/18/19										
Diesel	41.0	1.0	mg/kg	50.0		82	65-135	13	30	
Surrogate: <i>o</i> -Terphenyl	0.367		"	0.500		73	65-135			
Matrix Spike (1909674-MS1) Source: 19K0785-01 Prepared & Analyzed: 11/18/19										
Diesel	55.6	1.0	mg/kg	50.0	ND	111	59-138			
Surrogate: <i>o</i> -Terphenyl	0.408		"	0.500		82	65-135			
Matrix Spike Dup (1909674-MSD1) Source: 19K0785-01 Prepared & Analyzed: 11/18/19										
Diesel	48.6	1.0	mg/kg	50.0	ND	97	59-138	13	37	
Surrogate: <i>o</i> -Terphenyl	0.381		"	0.500		76	65-135			
Batch 1909746 - EPA 3510B GCNV										
Blank (1909746-BLK1) Prepared: 11/19/19 Analyzed: 11/20/19										
Diesel	ND	1.0	mg/kg							
Motor Oil	ND	1.0	"							
Surrogate: <i>o</i> -Terphenyl	0.395		"	0.500		79	65-135			



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Extractable Petroleum Hydrocarbons by EPA Method 8015M - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1909746 - EPA 3510B GCNV										
LCS (1909746-BS1)				Prepared: 11/19/19 Analyzed: 11/20/19						
Diesel	37.0	1.0	mg/kg	50.0		74	65-135			
Surrogate: <i>o</i> -Terphenyl	0.347		"	0.500		69	65-135			
LCS Dup (1909746-BSD1)				Prepared: 11/19/19 Analyzed: 11/20/19						
Diesel	37.4	1.0	mg/kg	50.0		75	65-135	1	30	
Surrogate: <i>o</i> -Terphenyl	0.374		"	0.500		75	65-135			
Matrix Spike (1909746-MS1)				Source: 19K0910-02		Prepared: 11/19/19 Analyzed: 11/20/19				
Diesel	42.6	1.0	mg/kg	50.0	ND	85	59-138			
Surrogate: <i>o</i> -Terphenyl	0.346		"	0.500		69	65-135			
Matrix Spike Dup (1909746-MSD1)				Source: 19K0910-02		Prepared: 11/19/19 Analyzed: 11/20/19				
Diesel	41.1	1.0	mg/kg	50.0	ND	82	59-138	3	37	
Surrogate: <i>o</i> -Terphenyl	0.347		"	0.500		69	65-135			



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Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1909754 - LUFT-DHS GCNV

Blank (1909754-BLK1)

Prepared: 11/19/19 Analyzed: 11/20/19

Aldrin	ND	1.0	µg/kg							
alpha-BHC	ND	1.7	"							
beta-BHC	ND	1.7	"							
gamma-BHC (Lindane)	ND	1.7	"							
delta-BHC	ND	1.7	"							
Chlordane-technical	ND	3.3	"							
4,4'-DDD	ND	3.3	"							
4,4'-DDE	ND	3.3	"							
4,4'-DDT	ND	3.3	"							
Dieldrin	ND	1.0	"							
Endosulfan I	ND	1.7	"							
Endosulfan II	ND	3.3	"							
Endosulfan sulfate	ND	3.3	"							
Endrin	ND	3.3	"							
Endrin aldehyde	ND	3.3	"							
Heptachlor	ND	1.7	"							
Heptachlor epoxide	ND	1.7	"							
Methoxychlor	ND	17	"							
Mirex	ND	3.3	"							
Toxaphene	ND	20	"							
Surrogate: Tetrachloro-meta-xylene	6.33		"	8.33		76	46-139			
Surrogate: Decachlorobiphenyl	6.47		"	8.33		78	52-141			

LCS (1909754-BS1)

Prepared: 11/19/19 Analyzed: 11/20/19

Aldrin	15.5	1.0	µg/kg	16.7		93	47-132			
gamma-BHC (Lindane)	16.0	1.7	"	16.7		96	56-133			
4,4'-DDT	15.3	3.3	"	16.7		92	46-137			
Dieldrin	18.2	1.0	"	16.7		109	44-143			
Endrin	22.6	3.3	"	16.7		135	30-147			
Heptachlor	17.0	1.7	"	16.7		102	33-148			
Surrogate: Tetrachloro-meta-xylene	6.30		"	8.33		76	46-139			



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Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1909754 - LUFT-DHS GCNV

LCS (1909754-BS1) Prepared: 11/19/19 Analyzed: 11/20/19

Surrogate: Decachlorobiphenyl	7.33		µg/kg	8.33		88	52-141			
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LCS Dup (1909754-BSD1) Prepared: 11/19/19 Analyzed: 11/20/19

Aldrin	14.1	1.0	µg/kg	16.7		85	47-132	9	30	
gamma-BHC (Lindane)	14.6	1.7	"	16.7		87	56-133	9	30	
4,4'-DDT	12.8	3.3	"	16.7		77	46-137	18	30	
Dieldrin	16.8	1.0	"	16.7		101	44-143	8	30	
Endrin	20.5	3.3	"	16.7		123	30-147	9	30	
Heptachlor	14.9	1.7	"	16.7		89	33-148	13	30	

Surrogate: Tetrachloro-meta-xylene	5.27		"	8.33		63	46-139			
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Surrogate: Decachlorobiphenyl	6.68		"	8.33		80	52-141			
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Matrix Spike (1909754-MS1) Source: 19K0840-05 Prepared: 11/19/19 Analyzed: 11/20/19

Aldrin	13.4	1.0	µg/kg	16.7	ND	80	47-138			
gamma-BHC (Lindane)	14.6	1.7	"	16.7	ND	88	38-144			
4,4'-DDT	14.4	3.3	"	16.7	ND	86	41-157			
Dieldrin	16.7	1.0	"	16.7	ND	100	46-155			
Endrin	20.4	3.3	"	16.7	ND	123	34-149			
Heptachlor	15.3	1.7	"	16.7	ND	92	36-155			

Surrogate: Tetrachloro-meta-xylene	14.0		"	20.8		67	46-139			
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Surrogate: Decachlorobiphenyl	17.5		"	20.8		84	52-141			
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Matrix Spike Dup (1909754-MSD1) Source: 19K0840-05 Prepared: 11/19/19 Analyzed: 11/20/19

Aldrin	12.4	1.0	µg/kg	16.7	ND	74	47-138	8	35	
gamma-BHC (Lindane)	13.5	1.7	"	16.7	ND	81	38-144	8	35	
4,4'-DDT	13.5	3.3	"	16.7	ND	81	41-157	6	35	
Dieldrin	15.5	1.0	"	16.7	ND	93	46-155	7	35	
Endrin	19.5	3.3	"	16.7	ND	117	34-149	5	35	
Heptachlor	13.9	1.7	"	16.7	ND	83	36-155	10	35	

Surrogate: Tetrachloro-meta-xylene	13.6		"	20.8		65	46-139			
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Surrogate: Decachlorobiphenyl	17.0		"	20.8		82	52-141			
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Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1909772 - LUFT-DHS GCNV

Blank (1909772-BLK1)

Prepared: 11/20/19 Analyzed: 11/21/19

Aldrin	ND	1.0	µg/kg							
alpha-BHC	ND	1.7	"							
beta-BHC	ND	1.7	"							
gamma-BHC (Lindane)	ND	1.7	"							
delta-BHC	ND	1.7	"							
Chlordane-technical	ND	3.3	"							
4,4'-DDD	ND	3.3	"							
4,4'-DDE	ND	3.3	"							
4,4'-DDT	ND	3.3	"							
Dieldrin	ND	1.0	"							
Endosulfan I	ND	1.7	"							
Endosulfan II	ND	3.3	"							
Endosulfan sulfate	ND	3.3	"							
Endrin	ND	3.3	"							
Endrin aldehyde	ND	3.3	"							
Heptachlor	ND	1.7	"							
Heptachlor epoxide	ND	1.7	"							
Methoxychlor	ND	17	"							
Mirex	ND	3.3	"							
Toxaphene	ND	20	"							
Surrogate: Tetrachloro-meta-xylene	6.96		"	8.33		83	46-139			
Surrogate: Decachlorobiphenyl	7.84		"	8.33		94	52-141			

LCS (1909772-BS1)

Prepared: 11/20/19 Analyzed: 11/21/19

Aldrin	17.6	1.0	µg/kg	16.7		106	47-132			
gamma-BHC (Lindane)	18.6	1.7	"	16.7		112	56-133			
4,4'-DDT	16.1	3.3	"	16.7		96	46-137			
Dieldrin	20.2	1.0	"	16.7		121	44-143			
Endrin	22.1	3.3	"	16.7		133	30-147			
Heptachlor	19.2	1.7	"	16.7		115	33-148			
Surrogate: Tetrachloro-meta-xylene	6.27		"	8.33		75	46-139			



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Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1909772 - LUFT-DHS GCNV

LCS (1909772-BS1)

Prepared: 11/20/19 Analyzed: 11/21/19

Surrogate: Decachlorobiphenyl	7.32		µg/kg	8.33		88	52-141			
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LCS Dup (1909772-BSD1)

Prepared: 11/20/19 Analyzed: 11/21/19

Aldrin	15.0	1.0	µg/kg	16.7		90	47-132	16	30	
gamma-BHC (Lindane)	15.6	1.7	"	16.7		93	56-133	18	30	
4,4'-DDT	14.2	3.3	"	16.7		85	46-137	13	30	
Dieldrin	17.4	1.0	"	16.7		104	44-143	15	30	
Endrin	21.8	3.3	"	16.7		131	30-147	2	30	
Heptachlor	16.2	1.7	"	16.7		97	33-148	17	30	
Surrogate: Tetrachloro-meta-xylene	6.14		"	8.33		74	46-139			
Surrogate: Decachlorobiphenyl	7.31		"	8.33		88	52-141			

Matrix Spike (1909772-MS1)

Source: 19K0910-18

Prepared: 11/20/19 Analyzed: 11/21/19

QRL-8

Aldrin	16.9	5.0	µg/kg	16.7	ND	101	47-138			
gamma-BHC (Lindane)	17.3	8.5	"	16.7	ND	104	38-144			
4,4'-DDT	11.7	17	"	16.7	ND	70	41-157			
Dieldrin	15.6	5.0	"	16.7	ND	94	46-155			
Endrin	18.6	17	"	16.7	ND	112	34-149			
Heptachlor	16.6	8.5	"	16.7	ND	99	36-155			
Surrogate: Tetrachloro-meta-xylene	18.9		"	20.8		91	46-139			
Surrogate: Decachlorobiphenyl	16.8		"	20.8		81	52-141			

Matrix Spike Dup (1909772-MSD1)

Source: 19K0910-18

Prepared: 11/20/19 Analyzed: 11/21/19

QRL-8

Aldrin	15.2	5.0	µg/kg	16.7	ND	91	47-138	11	35	
gamma-BHC (Lindane)	17.1	8.5	"	16.7	ND	103	38-144	1	35	
4,4'-DDT	9.54	17	"	16.7	ND	57	41-157	20	35	
Dieldrin	15.7	5.0	"	16.7	ND	94	46-155	0.4	35	
Endrin	18.6	17	"	16.7	ND	112	34-149	0.2	35	
Heptachlor	16.7	8.5	"	16.7	ND	100	36-155	0.6	35	
Surrogate: Tetrachloro-meta-xylene	15.5		"	20.8		75	46-139			
Surrogate: Decachlorobiphenyl	16.5		"	20.8		79	52-141			



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Polychlorinated Biphenyls by EPA Method 8082A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1909755 - LUFT-DHS GCNV

Blank (1909755-BLK1) Prepared & Analyzed: 11/19/19										
Aroclor 1016	ND	20	µg/kg							
Aroclor 1221	ND	20	"							
Aroclor 1232	ND	20	"							
Aroclor 1242	ND	20	"							
Aroclor 1248	ND	20	"							
Aroclor 1254	ND	20	"							
Aroclor 1260	ND	20	"							
Aroclor 1268	ND	20	"							

Surrogate: Decachlorobiphenyl 8.07 " 8.33 97 50-150

LCS (1909755-BS1) Prepared & Analyzed: 11/19/19										
Aroclor 1260	72.2	20	µg/kg	83.3		87	29-131			
Surrogate: Decachlorobiphenyl	8.34		"	8.33		100	50-150			

LCS Dup (1909755-BSD1) Prepared & Analyzed: 11/19/19										
Aroclor 1260	74.9	20	µg/kg	83.3		90	29-131	4	30	
Surrogate: Decachlorobiphenyl	8.49		"	8.33		102	50-150			

Matrix Spike (1909755-MS1) Source: 19K0686-01 Prepared & Analyzed: 11/19/19 QRL-8										
Aroclor 1260	1290	200	µg/kg	83.3	554	883	29-131			QM-7
Surrogate: Decachlorobiphenyl	130		"	8.33		NR	50-150			QS-4

Matrix Spike Dup (1909755-MSD1) Source: 19K0686-01 Prepared & Analyzed: 11/19/19 QRL-8										
Aroclor 1260	1460	200	µg/kg	83.3	554	NR	29-131	12	30	QM-7
Surrogate: Decachlorobiphenyl	947		"	8.33		NR	50-150			QS-4

Batch 1909773 - LUFT-DHS GCNV

Blank (1909773-BLK1) Prepared & Analyzed: 11/20/19										
Aroclor 1016	ND	20	µg/kg							
Aroclor 1221	ND	20	"							
Aroclor 1232	ND	20	"							
Aroclor 1242	ND	20	"							



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Polychlorinated Biphenyls by EPA Method 8082A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1909773 - LUFT-DHS GCNV										
Blank (1909773-BLK1) Prepared & Analyzed: 11/20/19										
Aroclor 1248	ND	20	µg/kg							
Aroclor 1254	ND	20	"							
Aroclor 1260	ND	20	"							
Aroclor 1268	ND	20	"							
Surrogate: Decachlorobiphenyl	9.27		"	8.33		111	50-150			
LCS (1909773-BS1) Prepared & Analyzed: 11/20/19										
Aroclor 1260	80.4	20	µg/kg	83.3		97	29-131			
Surrogate: Decachlorobiphenyl	7.78		"	8.33		93	50-150			
LCS Dup (1909773-BSD1) Prepared & Analyzed: 11/20/19										
Aroclor 1260	77.6	20	µg/kg	83.3		93	29-131	4	30	
Surrogate: Decachlorobiphenyl	8.36		"	8.33		100	50-150			
Matrix Spike (1909773-MS1) Source: 19K0910-17 Prepared & Analyzed: 11/20/19										
Aroclor 1260	84.8	20	µg/kg	83.3	41.2	52	29-131			
Surrogate: Decachlorobiphenyl	8.54		"	8.33		102	50-150			
Matrix Spike Dup (1909773-MSD1) Source: 19K0910-17 Prepared & Analyzed: 11/20/19										
Aroclor 1260	87.7	20	µg/kg	83.3	41.2	56	29-131	3	30	
Surrogate: Decachlorobiphenyl	7.58		"	8.33		91	50-150			



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TPH-Gasoline by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1909742 - EPA 5030 Soil GC

Blank (1909742-BLK1) Prepared & Analyzed: 11/19/19

Gasoline ND 1.0 mg/kg

Surrogate: o-Chlorotoluene (Gas) 0.0169 " 0.0200 85 65-135

LCS (1909742-BS1) Prepared & Analyzed: 11/19/19

Gasoline 1.90 1.0 mg/kg 2.00 95 65-135

Surrogate: o-Chlorotoluene (Gas) 0.0167 " 0.0200 83 65-135

LCS Dup (1909742-BSD1) Prepared & Analyzed: 11/19/19

Gasoline 2.05 1.0 mg/kg 2.00 103 65-135 8 30

Surrogate: o-Chlorotoluene (Gas) 0.0165 " 0.0200 83 65-135

Matrix Spike (1909742-MS1) Source: 19K0910-01 Prepared & Analyzed: 11/19/19

Gasoline 1.51 1.0 mg/kg 2.00 ND 75 63-124

Surrogate: o-Chlorotoluene (Gas) 0.0137 " 0.0200 69 65-135

Matrix Spike Dup (1909742-MSD1) Source: 19K0910-01 Prepared & Analyzed: 11/19/19

Gasoline 1.68 1.0 mg/kg 2.00 ND 84 63-124 11 35

Surrogate: o-Chlorotoluene (Gas) 0.0168 " 0.0200 84 65-135

Batch 1909743 - EPA 5030 Soil GC

Blank (1909743-BLK1) Prepared & Analyzed: 11/19/19

Gasoline ND 1.0 mg/kg

Surrogate: o-Chlorotoluene (Gas) 0.0170 " 0.0200 85 65-135

LCS (1909743-BS1) Prepared & Analyzed: 11/19/19

Gasoline 1.86 1.0 mg/kg 2.00 93 65-135

Surrogate: o-Chlorotoluene (Gas) 0.0158 " 0.0200 79 65-135



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TPH-Gasoline by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1909743 - EPA 5030 Soil GC

LCS Dup (1909743-BSD1)

Prepared & Analyzed: 11/19/19

Gasoline	1.75	1.0	mg/kg	2.00		87	65-135	6	30	
Surrogate: o-Chlorotoluene (Gas)	0.0169		"	0.0200		84	65-135			

Matrix Spike (1909743-MS1)

Source: 19K0910-21

Prepared & Analyzed: 11/19/19

Gasoline	1.58	1.0	mg/kg	2.00	ND	79	63-124			
Surrogate: o-Chlorotoluene (Gas)	0.0164		"	0.0200		82	65-135			

Matrix Spike Dup (1909743-MSD1)

Source: 19K0910-21

Prepared & Analyzed: 11/19/19

Gasoline	1.63	1.0	mg/kg	2.00	ND	82	63-124	3	35	
Surrogate: o-Chlorotoluene (Gas)	0.0153		"	0.0200		77	65-135			



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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1909783 - EPA 5030 Soil MS

Blank (1909783-BLK1)

Prepared & Analyzed: 11/19/19

Acetone	ND	100	µg/kg							
Benzene	ND	5.0	"							
Bromobenzene	ND	5.0	"							
Bromochloromethane	ND	5.0	"							
Bromodichloromethane	ND	5.0	"							
Bromoform	ND	5.0	"							
Bromomethane	ND	10	"							
2-Butanone	ND	100	"							
n-Butylbenzene	ND	5.0	"							
sec-Butylbenzene	ND	5.0	"							
tert-Butylbenzene	ND	5.0	"							
Carbon tetrachloride	ND	5.0	"							
Chlorobenzene	ND	5.0	"							
Chloroethane	ND	5.0	"							
Chloroform	ND	5.0	"							
Chloromethane	ND	10	"							
o-Chlorotoluene	ND	5.0	"							
p-Chlorotoluene	ND	5.0	"							
Dibromochloromethane	ND	5.0	"							
1,2-Dibromo-3-chloropropane	ND	10	"							
1,2-Dibromoethane (EDB)	ND	5.0	"							
Dibromomethane	ND	5.0	"							
1,2-Dichlorobenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	5.0	"							
1,4-Dichlorobenzene	ND	5.0	"							
Dichlorodifluoromethane (Freon 12)	ND	10	"							
1,1-Dichloroethane	ND	5.0	"							
1,2-Dichloroethane	ND	5.0	"							
1,1-Dichloroethene	ND	5.0	"							
cis-1,2-Dichloroethene	ND	5.0	"							
trans-1,2-Dichloroethene	ND	5.0	"							



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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1909783 - EPA 5030 Soil MS

Blank (1909783-BLK1)

Prepared & Analyzed: 11/19/19

1,2-Dichloropropane	ND	5.0	µg/kg
1,3-Dichloropropane	ND	5.0	"
2,2-Dichloropropane	ND	5.0	"
1,1-Dichloropropene	ND	5.0	"
cis-1,3-Dichloropropene	ND	5.0	"
trans-1,3-Dichloropropene	ND	5.0	"
Ethylbenzene	ND	5.0	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"
Hexachlorobutadiene	ND	5.0	"
2-Hexanone	ND	50	"
Isopropylbenzene	ND	5.0	"
p-Isopropyltoluene	ND	5.0	"
Methylene chloride	ND	20	"
4-Methyl-2-pentanone	ND	50	"
Methyl tert-butyl ether	ND	5.0	"
Naphthalene	ND	5.0	"
n-Propylbenzene	ND	5.0	"
Styrene	ND	5.0	"
1,1,2,2-Tetrachloroethane	ND	5.0	"
1,1,1,2-Tetrachloroethane	ND	5.0	"
Tetrachloroethene	ND	5.0	"
Toluene	ND	5.0	"
1,2,3-Trichlorobenzene	ND	5.0	"
1,2,4-Trichlorobenzene	ND	5.0	"
1,1,2-Trichloroethane	ND	5.0	"
1,1,1-Trichloroethane	ND	5.0	"
Trichloroethene	ND	5.0	"
Trichlorofluoromethane	ND	5.0	"
1,2,3-Trichloropropane	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,2,4-Trimethylbenzene	ND	5.0	"



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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1909783 - EPA 5030 Soil MS

Blank (1909783-BLK1)

Prepared & Analyzed: 11/19/19

Vinyl chloride	ND	10	µg/kg							
Xylenes (total)	ND	10	"							
Di-isopropyl ether	ND	5.0	"							
Ethyl tert-butyl ether	ND	5.0	"							
tert-Amyl methyl ether	ND	5.0	"							
tert-Butyl alcohol	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	35.2		"	30.0		117	50-125			
Surrogate: Toluene-d8	29.3		"	30.0		98	62-125			
Surrogate: 4-Bromofluorobenzene	33.4		"	30.0		111	50-128			

LCS (1909783-BS1)

Prepared & Analyzed: 11/19/19

Benzene	22.4	5.0	µg/kg	20.0		112	64-135			
Chlorobenzene	22.3	5.0	"	20.0		111	67-133			
1,1-Dichloroethene	21.9	5.0	"	20.0		110	53-137			
Toluene	22.5	5.0	"	20.0		112	61-138			
Trichloroethene	20.1	5.0	"	20.0		101	64-130			
Surrogate: 1,2-Dichloroethane-d4	33.2		"	30.0		111	50-125			
Surrogate: Toluene-d8	30.9		"	30.0		103	62-125			
Surrogate: 4-Bromofluorobenzene	32.1		"	30.0		107	50-128			

LCS Dup (1909783-BS1)

Prepared & Analyzed: 11/19/19

Benzene	21.7	5.0	µg/kg	20.0		108	64-135	3	30	
Chlorobenzene	21.6	5.0	"	20.0		108	67-133	3	30	
1,1-Dichloroethene	20.7	5.0	"	20.0		104	53-137	5	30	
Toluene	21.7	5.0	"	20.0		109	61-138	3	30	
Trichloroethene	20.3	5.0	"	20.0		102	64-130	1	30	
Surrogate: 1,2-Dichloroethane-d4	36.2		"	30.0		121	50-125			
Surrogate: Toluene-d8	31.2		"	30.0		104	62-125			
Surrogate: 4-Bromofluorobenzene	31.8		"	30.0		106	50-128			



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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1909783 - EPA 5030 Soil MS

Matrix Spike (1909783-MS1)

Source: 19K0785-01

Prepared: 11/19/19 Analyzed: 11/20/19

Benzene	17.3	5.0	µg/kg	20.0	ND	86	58-139			
Chlorobenzene	20.7	5.0	"	20.0	ND	104	62-134			
1,1-Dichloroethene	18.4	5.0	"	20.0	ND	92	53-152			
Toluene	19.9	5.0	"	20.0	ND	100	58-139			
Trichloroethene	19.1	5.0	"	20.0	ND	95	55-138			
Surrogate: 1,2-Dichloroethane-d4	31.4		"	30.0		105	50-125			
Surrogate: Toluene-d8	22.5		"	30.0		75	62-125			
Surrogate: 4-Bromofluorobenzene	30.0		"	30.0		100	50-128			

Matrix Spike Dup (1909783-MSD1)

Source: 19K0785-01

Prepared: 11/19/19 Analyzed: 11/20/19

Benzene	21.9	5.0	µg/kg	20.0	ND	109	58-139	23	30	
Chlorobenzene	15.7	5.0	"	20.0	ND	79	62-134	27	30	
1,1-Dichloroethene	20.9	5.0	"	20.0	ND	105	53-152	13	30	
Toluene	16.5	5.0	"	20.0	ND	83	58-139	19	30	
Trichloroethene	21.4	5.0	"	20.0	ND	107	55-138	12	30	
Surrogate: 1,2-Dichloroethane-d4	28.8		"	30.0		96	50-125			
Surrogate: Toluene-d8	24.8		"	30.0		83	62-125			
Surrogate: 4-Bromofluorobenzene	34.1		"	30.0		114	50-128			

Batch 1909784 - EPA 5030 Soil MS

Blank (1909784-BLK1)

Prepared & Analyzed: 11/19/19

Acetone	ND	100	µg/kg							
Benzene	ND	5.0	"							
Bromobenzene	ND	5.0	"							
Bromochloromethane	ND	5.0	"							
Bromodichloromethane	ND	5.0	"							
Bromoform	ND	5.0	"							
Bromomethane	ND	10	"							
2-Butanone	ND	100	"							
n-Butylbenzene	ND	5.0	"							
sec-Butylbenzene	ND	5.0	"							



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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1909784 - EPA 5030 Soil MS

Blank (1909784-BLK1)

Prepared & Analyzed: 11/19/19

tert-Butylbenzene	ND	5.0	µg/kg
Carbon tetrachloride	ND	5.0	"
Chlorobenzene	ND	5.0	"
Chloroethane	ND	5.0	"
Chloroform	ND	5.0	"
Chloromethane	ND	10	"
o-Chlorotoluene	ND	5.0	"
p-Chlorotoluene	ND	5.0	"
Dibromochloromethane	ND	5.0	"
1,2-Dibromo-3-chloropropane	ND	10	"
1,2-Dibromoethane (EDB)	ND	5.0	"
Dibromomethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
Dichlorodifluoromethane (Freon 12)	ND	10	"
1,1-Dichloroethane	ND	5.0	"
1,2-Dichloroethane	ND	5.0	"
1,1-Dichloroethene	ND	5.0	"
cis-1,2-Dichloroethene	ND	5.0	"
trans-1,2-Dichloroethene	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
2,2-Dichloropropane	ND	5.0	"
1,1-Dichloropropene	ND	5.0	"
cis-1,3-Dichloropropene	ND	5.0	"
trans-1,3-Dichloropropene	ND	5.0	"
Ethylbenzene	ND	5.0	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"
Hexachlorobutadiene	ND	5.0	"
2-Hexanone	ND	50	"



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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1909784 - EPA 5030 Soil MS

Blank (1909784-BLK1)

Prepared & Analyzed: 11/19/19

Isopropylbenzene	ND	5.0	µg/kg							
p-Isopropyltoluene	ND	5.0	"							
Methylene chloride	ND	20	"							
4-Methyl-2-pentanone	ND	50	"							
Methyl tert-butyl ether	ND	5.0	"							
Naphthalene	ND	5.0	"							
n-Propylbenzene	ND	5.0	"							
Styrene	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
Toluene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
Trichloroethene	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							
1,2,3-Trichloropropane	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
Vinyl chloride	ND	10	"							
Xylenes (total)	ND	10	"							
Di-isopropyl ether	ND	5.0	"							
Ethyl tert-butyl ether	ND	5.0	"							
tert-Amyl methyl ether	ND	5.0	"							
tert-Butyl alcohol	ND	50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	33.2		"	30.0		111	50-125			
<i>Surrogate: Toluene-d8</i>	28.4		"	30.0		95	62-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	36.0		"	30.0		120	50-128			



CALIFORNIA LABORATORY SERVICES

Committed. Responsive. Flexible.

Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K0910 COC #: 461037 & 880876
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1909784 - EPA 5030 Soil MS

LCS (1909784-BS1)

Prepared & Analyzed: 11/19/19

Benzene	20.4	5.0	µg/kg	20.0		102	64-135			
Chlorobenzene	19.0	5.0	"	20.0		95	67-133			
1,1-Dichloroethene	20.6	5.0	"	20.0		103	53-137			
Toluene	19.0	5.0	"	20.0		95	61-138			
Trichloroethene	18.8	5.0	"	20.0		94	64-130			
Surrogate: 1,2-Dichloroethane-d4	29.5		"	30.0		98	50-125			
Surrogate: Toluene-d8	28.7		"	30.0		96	62-125			
Surrogate: 4-Bromofluorobenzene	34.2		"	30.0		114	50-128			

LCS Dup (1909784-BS1)

Prepared & Analyzed: 11/19/19

Benzene	22.4	5.0	µg/kg	20.0		112	64-135	9	30	
Chlorobenzene	20.9	5.0	"	20.0		105	67-133	10	30	
1,1-Dichloroethene	21.7	5.0	"	20.0		109	53-137	5	30	
Toluene	20.2	5.0	"	20.0		101	61-138	6	30	
Trichloroethene	21.3	5.0	"	20.0		107	64-130	13	30	
Surrogate: 1,2-Dichloroethane-d4	30.8		"	30.0		103	50-125			
Surrogate: Toluene-d8	29.6		"	30.0		99	62-125			
Surrogate: 4-Bromofluorobenzene	28.1		"	30.0		94	50-128			

Matrix Spike (1909784-MS1)

Source: 19K0910-24

Prepared: 11/19/19 Analyzed: 11/20/19

Benzene	17.2	5.0	µg/kg	20.0	ND	86	58-139			
Chlorobenzene	19.1	5.0	"	20.0	ND	95	62-134			
1,1-Dichloroethene	18.5	5.0	"	20.0	ND	92	53-152			
Toluene	14.6	5.0	"	20.0	ND	73	58-139			
Trichloroethene	19.7	5.0	"	20.0	ND	98	55-138			
Surrogate: 1,2-Dichloroethane-d4	32.3		"	30.0		108	50-125			
Surrogate: Toluene-d8	21.8		"	30.0		73	62-125			
Surrogate: 4-Bromofluorobenzene	27.6		"	30.0		92	50-128			



CALIFORNIA LABORATORY SERVICES

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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K0910 COC #: 461037 & 880876
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1909784 - EPA 5030 Soil MS

Matrix Spike Dup (1909784-MSD1)

Source: 19K0910-24

Prepared: 11/19/19 Analyzed: 11/20/19

Benzene	17.8	5.0	µg/kg	20.0	ND	89	58-139	3	30	
Chlorobenzene	18.2	5.0	"	20.0	ND	91	62-134	5	30	
1,1-Dichloroethene	18.5	5.0	"	20.0	ND	93	53-152	0.3	30	
Toluene	19.3	5.0	"	20.0	ND	97	58-139	28	30	
Trichloroethene	19.5	5.0	"	20.0	ND	98	55-138	0.7	30	
Surrogate: 1,2-Dichloroethane-d4	34.0		"	30.0		113	50-125			
Surrogate: Toluene-d8	22.6		"	30.0		75	62-125			
Surrogate: 4-Bromofluorobenzene	30.1		"	30.0		100	50-128			



Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K0910 COC #: 461037 & 880876
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Notes and Definitions

- QS-4 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QRL-8 The extract of this sample was dark and/or oily. Therefore, the sample was analyzed with a dilution and the reporting limit was raised for all target compounds.
- QM-7 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS and/or LCSD recovery.
- QM-5 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- QM-1 The spike recovery was outside acceptance limits for the LCS or LCSD. The batch was accepted based on acceptable MS/MSD recoveries & RPD's.
- A-COM Similar concentration was also detected in the method blank.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

SUBCONTRACT ORDER
19K0910

№ 091926502

SENDING LABORATORY:

CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova, CA 95742
Phone: 916-638-7301
Fax: 916-638-4510
Project Manager: Mark Smith
~~Project: Yolo County Detention Basin~~

RECEIVING LABORATORY:

EMSL Analytical
464 McCormick Street
San Leandro, CA 94577
Phone : (510) 895-3675
Fax: (510) 895-3680

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Asbestos-Soil SUB	10	12/03/19 12:00	05/16/20 08:41	19K0910-01	11/18/19 08:41	11/18/19 16:30	Soil

Client sample ID: SP-1

Laboratory sample ID: 19K0910-01

Please use client sample ID on all reports

~~Sample ID~~
Carb 435A

Containers Supplied:

4 oz. jar (B)

Asbestos-Soil SUB	10	12/03/19 12:00	05/16/20 08:44	19K0910-02	11/18/19 08:44	11/18/19 16:30	Soil
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Client sample ID: SP-2

Laboratory sample ID: 19K0910-02

Please use client sample ID on all reports

~~Sample ID~~
Carb 435A

Containers Supplied:

4 oz. jar (B)

Asbestos-Soil SUB	10	12/03/19 12:00	05/16/20 08:46	19K0910-03	11/18/19 08:46	11/18/19 16:30	Soil
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Client sample ID: SP-3

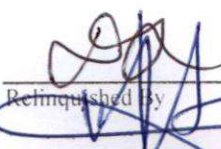
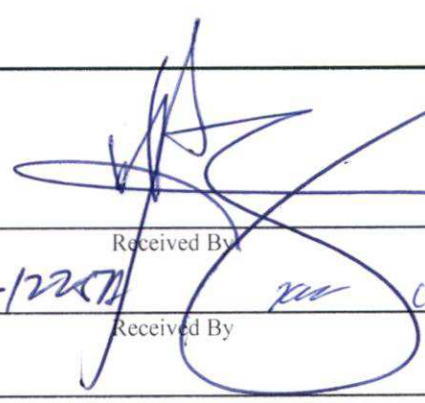
Laboratory sample ID: 19K0910-03

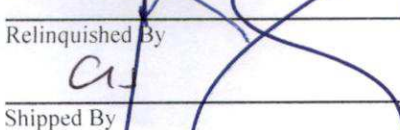
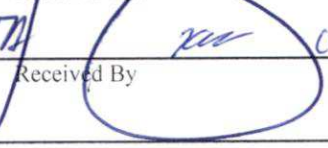
Please use client sample ID on all reports

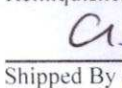
~~Sample ID~~
Carb 435A

Containers Supplied:

4 oz. jar (B)

Relinquished By  Date 11.19.19 Received By  Date 11/19/19 07:10A

Relinquished By  Date 11/19/19-12:30 PM Received By  Date 11/19/19 12:30 pm

Shipped By  Airbill Number _____

SUBCONTRACT ORDER

19K0910

№ 091926502

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Asbestos-Soil SUB	10	12/03/19 12:00	05/16/20 08:48	19K0910-04	11/18/19 08:48	11/18/19 16:30	Soil

Client sample ID: SP-4

Laboratory sample ID: 19K0910-04

Please use client sample ID on all reports

~~Sampler:~~
Carb 435A

Containers Supplied:

4 oz. jar (B)

Asbestos-Soil SUB	10	12/03/19 12:00	05/16/20 08:50	19K0910-05	11/18/19 08:50	11/18/19 16:30	Soil
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Client sample ID: SP-5

Laboratory sample ID: 19K0910-05

Please use client sample ID on all reports

~~Sampler:~~
Carb 435A

Containers Supplied:

4 oz. jar (B)

Asbestos-Soil SUB	10	12/03/19 12:00	05/16/20 08:52	19K0910-06	11/18/19 08:52	11/18/19 16:30	Soil
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Client sample ID: SP-6

Laboratory sample ID: 19K0910-06

Please use client sample ID on all reports

~~Sampler:~~
Carb 435A

Containers Supplied:

4 oz. jar (B)

Asbestos-Soil SUB	10	12/03/19 12:00	05/16/20 08:56	19K0910-07	11/18/19 08:56	11/18/19 16:30	Soil
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Client sample ID: SP-7

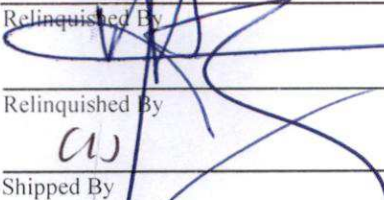
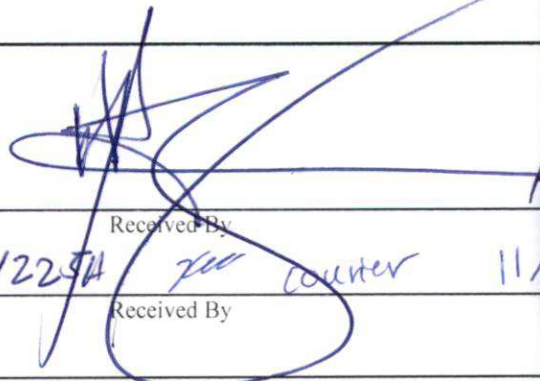
Laboratory sample ID: 19K0910-07

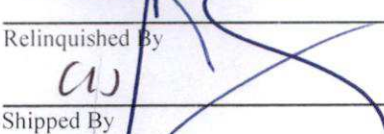
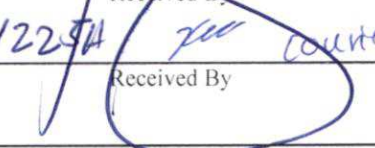
Please use client sample ID on all reports

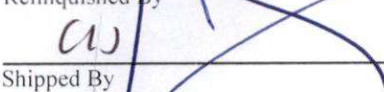
~~Sampler:~~
Carb 435A

Containers Supplied:

4 oz. jar (B)

Relinquished By  Date 11/19/19 Received By  Date 11/19/19-0710

Relinquished By  Date 11/19/19-1225H Received By  Date 11/19/19 12:30pm

Shipped By  Airbill Number

SUBCONTRACT ORDER

19K0910

№ 091926502

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Asbestos-Soil SUB	10	12/03/19 12:00	05/16/20 08:58	19K0910-08	11/18/19 08:58	11/18/19 16:30	Soil

Client sample ID: SP-8

Sampler: Carb 435A

Laboratory sample ID: 19K0910-08

Please use client sample ID on all reports

Containers Supplied:

4 oz. jar (B)

Asbestos-Soil SUB	10	12/03/19 12:00	05/16/20 09:00	19K0910-09	11/18/19 09:00	11/18/19 16:30	Soil
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Client sample ID: SP-9

Sampler: Carb 435A

Laboratory sample ID: 19K0910-09

Please use client sample ID on all reports

Containers Supplied:

4 oz. jar (B)

Asbestos-Soil SUB	10	12/03/19 12:00	05/16/20 09:02	19K0910-10	11/18/19 09:02	11/18/19 16:30	Soil
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Client sample ID: SP-10

Sampler: Carb 435A

Laboratory sample ID: 19K0910-10

Please use client sample ID on all reports

Containers Supplied:

4 oz. jar (B)

Asbestos-Soil SUB	10	12/03/19 12:00	05/16/20 09:03	19K0910-11	11/18/19 09:03	11/18/19 16:30	Soil
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Client sample ID: SP-11

Sampler: Carb 435A

Laboratory sample ID: 19K0910-11

Please use client sample ID on all reports

Containers Supplied:

4 oz. jar (B)

Relinquished By

Date

Received By

Date

Relinquished By

Date

Received By

Date

Shipped By

Airbill Number

SUBCONTRACT ORDER

19K0910

091926502

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Asbestos-Soil SUB	10	12/03/19 12:00	05/16/20 09:05	19K0910-12	11/18/19 09:05	11/18/19 16:30	Soil

Client sample ID: SP-12

Laboratory sample ID: 19K0910-12

Please use client sample ID on all reports

Sampler: Carb 435A

Containers Supplied:

4 oz. jar (B)

Asbestos-Soil SUB	10	12/03/19 12:00	05/16/20 09:08	19K0910-13	11/18/19 09:08	11/18/19 16:30	Soil
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Client sample ID: SP-13

Laboratory sample ID: 19K0910-13

Please use client sample ID on all reports

Sampler: Carb 435A

Containers Supplied:

4 oz. jar (B)

Asbestos-Soil SUB	10	12/03/19 12:00	05/16/20 09:10	19K0910-14	11/18/19 09:10	11/18/19 16:30	Soil
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Client sample ID: SP-14

Laboratory sample ID: 19K0910-14

Please use client sample ID on all reports

Sampler: Carb 435A

Containers Supplied:

4 oz. jar (B)

Asbestos-Soil SUB	10	12/03/19 12:00	05/16/20 09:12	19K0910-15	11/18/19 09:12	11/18/19 16:30	Soil
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Client sample ID: SP-15

Laboratory sample ID: 19K0910-15

Please use client sample ID on all reports

Sampler: Carb 435A

Containers Supplied:

4 oz. jar (B)

Relinquished By

11/19/19
Date

Received By

11/19/19-0710H
Date

Relinquished By

11/19/19-1225H
Date

Received By
J. Cooper

11/19/19 12:30 pm
Date

Shipped By

Airbill Number

SUBCONTRACT ORDER

19K0910

№ 091926502

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Asbestos-Soil SUB	10	12/03/19 12:00	05/16/20 09:13	19K0910-16	11/18/19 09:13	11/18/19 16:30	Soil

Client sample ID: SP-16

Laboratory sample ID: 19K0910-16

Please use client sample ID on all reports

~~Sampler:~~
Carb 435A

Containers Supplied:

4 oz. jar (B)

Asbestos-Soil SUB	10	12/03/19 12:00	05/16/20 09:15	19K0910-17	11/18/19 09:15	11/18/19 16:30	Soil
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Client sample ID: SP-17

Laboratory sample ID: 19K0910-17

Please use client sample ID on all reports

~~Sampler:~~
Carb 435A

Containers Supplied:

4 oz. jar (B)

Asbestos-Soil SUB	10	12/03/19 12:00	05/16/20 09:17	19K0910-18	11/18/19 09:17	11/18/19 16:30	Soil
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Client sample ID: SP-18

Laboratory sample ID: 19K0910-18

Please use client sample ID on all reports

~~Sampler:~~
Carb 435A

Containers Supplied:

4 oz. jar (B)

Asbestos-Soil SUB	10	12/03/19 12:00	05/16/20 09:19	19K0910-19	11/18/19 09:19	11/18/19 16:30	Soil
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Client sample ID: SP-19

Laboratory sample ID: 19K0910-19

Please use client sample ID on all reports

~~Sampler:~~
Carb 435A

Containers Supplied:

4 oz. jar (B)

Relinquished By

Date

Received By

Date

Relinquished By

Date

Received By

Date

Shipped By

Airbill Number

SUBCONTRACT ORDER

19K0910

№ 091926502

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Asbestos-Soil SUB	10	12/03/19 12:00	05/16/20 09:21	19K0910-20	11/18/19 09:21	11/18/19 16:30	Soil

Client sample ID: SP-20

~~Sampler:~~
Carb 435A

Laboratory sample ID: 19K0910-20

Please use client sample ID on all reports

Containers Supplied:

4 oz. jar (B)

Asbestos-Soil SUB	10	12/03/19 12:00	05/16/20 09:24	19K0910-21	11/18/19 09:24	11/18/19 16:30	Soil
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Client sample ID: SP-21

~~Sampler:~~
Carb 435A

Laboratory sample ID: 19K0910-21

Please use client sample ID on all reports

Containers Supplied:

4 oz. jar (B)

Asbestos-Soil SUB	10	12/03/19 12:00	05/16/20 09:27	19K0910-22	11/18/19 09:27	11/18/19 16:30	Soil
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Client sample ID: SP-22

~~Sampler:~~
Carb 435A

Laboratory sample ID: 19K0910-22

Please use client sample ID on all reports

Containers Supplied:

4 oz. jar (B)

Asbestos-Soil SUB	10	12/03/19 12:00	05/16/20 09:30	19K0910-23	11/18/19 09:30	11/18/19 16:30	Soil
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Client sample ID: SP-23

~~Sampler:~~
Carb 435A

Laboratory sample ID: 19K0910-23

Please use client sample ID on all reports

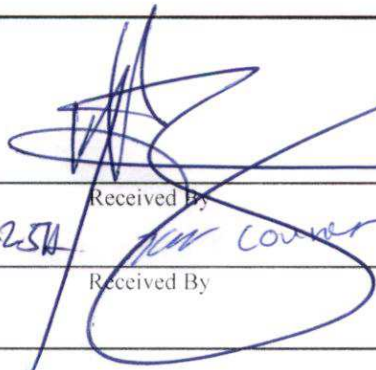
Containers Supplied:

4 oz. jar (B)

Relinquished By 

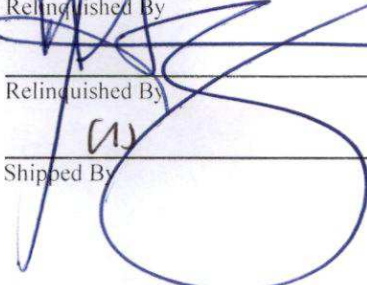
Date

11-19-19

Received By 

Date

11/19/19 - 07:10A

Relinquished By 

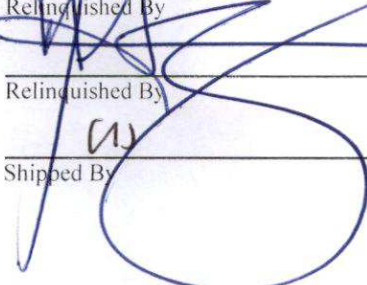
Date

11/19/19 - 12:30P

Received By 

Date

11/19/19 12:30pm

Shipped By 

Airbill Number

SUBCONTRACT ORDER

19K0910

091926502

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Asbestos-Soil SUB	10	12/03/19 12:00	05/16/20 09:33	19K0910-24	11/18/19 09:33	11/18/19 16:30	Soil

Client sample ID: SP-24

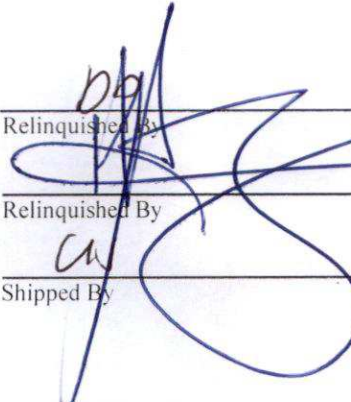
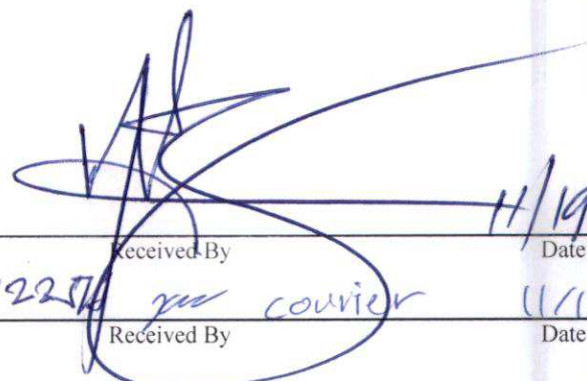
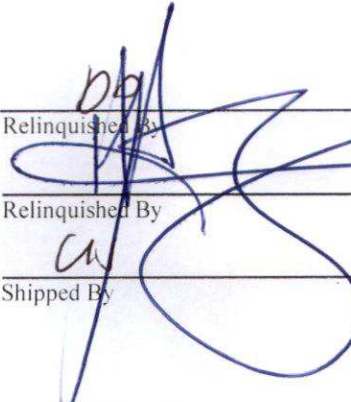
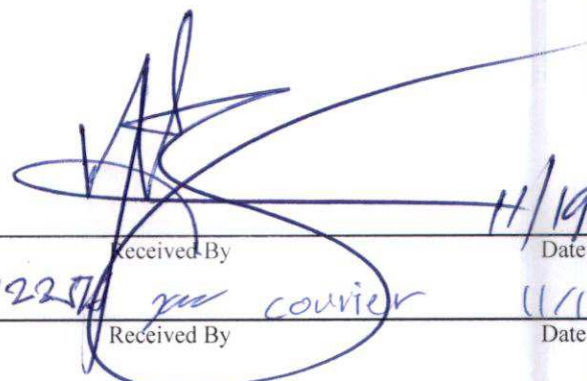
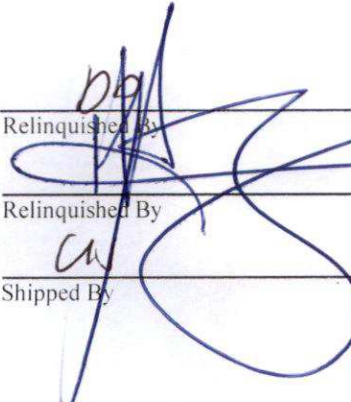
Sampler:
Carb 435A

Laboratory sample ID: 19K0910-24

Please use client sample ID on all reports

Containers Supplied:

4 oz. jar (B)

Relinquished By  Date 11/19/19
 Received By  Date 11/19/19-0710A
 Relinquished By  Date 11/19/19-1225A
 Received By  Date 11/19/19 12:30pm
 Shipped By  Airbill Number



EMSL Analytical, Inc.

464 McCormick Street San Leandro, CA 94577

Phone/Fax: (510) 895-3675 / (510) 895-3680

<http://www.EMSL.com> / sanleandrolab@emsl.com

EMSL Order: 091926502

Customer ID: CALI52

Customer PO: 19K0910

Project ID:

Attention: Mark Smith
California Laboratory Services
3249 Fitzgerald Road
Rancho Cordova, CA 95742

Phone: (916) 638-7301
Fax: (916) 638-4510
Received: 11/19/2019 12:30 PM
Analysis Date: 11/25/2019
Collected: 11/18/2019

Project: 19K0910

Test Report: PLM Analysis of Bulk Samples for Asbestos via EPA 600/R-93/116 Method with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
SP-1 091926502-0001		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<0.25% Chrysotile
SP-2 091926502-0002		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<0.25% Chrysotile
SP-3 091926502-0003		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<0.25% Chrysotile
SP-4 091926502-0004		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<0.25% Chrysotile
SP-5 091926502-0005		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
SP-6 091926502-0006		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<0.25% Chrysotile
SP-7 091926502-0007		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<0.25% Chrysotile
SP-8 091926502-0008		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<0.25% Chrysotile
SP-9 091926502-0009		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<0.25% Chrysotile
SP-10 091926502-0010		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<0.25% Chrysotile

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Samples analyzed by EMSL Analytical, Inc San Leandro, CA

Initial report from: 11/25/2019 13:00:08



EMSL Analytical, Inc.

464 McCormick Street San Leandro, CA 94577

Phone/Fax: (510) 895-3675 / (510) 895-3680

<http://www.EMSL.com> / sanleandrolab@emsl.com

EMSL Order: 091926502

Customer ID: CALI52

Customer PO: 19K0910

Project ID:

Attention: Mark Smith
California Laboratory Services
3249 Fitzgerald Road
Rancho Cordova, CA 95742

Phone: (916) 638-7301
Fax: (916) 638-4510
Received: 11/19/2019 12:30 PM
Analysis Date: 11/25/2019
Collected: 11/18/2019

Project: 19K0910

Test Report: PLM Analysis of Bulk Samples for Asbestos via EPA 600/R-93/116 Method with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
SP-11 091926502-0011		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<0.25% Chrysotile
SP-12 091926502-0012		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<0.25% Chrysotile
SP-13 091926502-0013		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<0.25% Chrysotile
SP-14 091926502-0014		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<0.25% Chrysotile
SP-15 091926502-0015		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
SP-16 091926502-0016		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<0.25% Chrysotile
SP-17 091926502-0017		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<0.25% Chrysotile
SP-18 091926502-0018		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<0.25% Chrysotile
SP-19 091926502-0019		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<0.25% Chrysotile
SP-20 091926502-0020		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<0.25% Chrysotile

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Samples analyzed by EMSL Analytical, Inc San Leandro, CA

Initial report from: 11/25/2019 13:00:08



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EMSL Order: 091926502

Customer ID: CALI52

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Project ID:

Attention: Mark Smith
California Laboratory Services
3249 Fitzgerald Road
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Phone: (916) 638-7301
Fax: (916) 638-4510
Received: 11/19/2019 12:30 PM
Analysis Date: 11/25/2019
Collected: 11/18/2019

Project: 19K0910

Test Report: PLM Analysis of Bulk Samples for Asbestos via EPA 600/R-93/116 Method with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
SP-21 091926502-0021		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<0.25% Chrysotile
SP-22 091926502-0022		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<0.25% Chrysotile
SP-23 091926502-0023		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<0.25% Chrysotile
SP-24 091926502-0024		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<0.25% Chrysotile

Analyst(s)

Shane Heisser (24)

Matthew Batongbacal
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc San Leandro, CA

Initial report from: 11/25/2019 13:00:08



CALIFORNIA LABORATORY SERVICES

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December 04, 2019

CLS Work Order #: 19K1268

COC #: GREEN

Mike VanDenEnden
Kleinfelder (Sacramento)
2882 Prospect Park Dr. suite 200
Rancho Cordova, CA 95742

Project Name: Yolo County Detention Basin

Enclosed are the results of analyses for samples received by the laboratory on 11/25/19 17:53. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director

CA SWRCB ELAP Accreditation/Registration number 1233

191-1248

CHANGE OF STATUS

Work Order # 191-1269

New Work Order _____ Revise Existing Work Order X

Project Name: YOLO COUNTY DETENTION BASIN

Date Sample(s) Were Received: 11-18-19 Original Date _____

TOM S. of KLEINFELDER (SA) called/emailed
(Client Contacted) (Company)

On 11-26-19 at 1010
(Date) (Time)

... and requested the following:

RUN DI STLC MOTOR OIL ON ALL
SAMPLES

RUN DI STLC C-6 ON SAMPLES
SP-3 AND SP-21

Turnaround time requested for additional work: 5

[Signature]
(Signature)

11-26-19
(Date)

Updated lab job database and file folder by: _____

Cc: _____

CHANGE OF STATUS

Work Order # 19K0910

New Work Order Revise Existing Work Order

Project Name: YOLO COUNTY DETENTION BASIN

Date Sample(s) Were Received: 11-18-19 Original Date _____

TOM SULLIVAN of KLEINFELDER ^(SAC) called/emailed
(Client Contacted) (Company)

On 11-25-19 at 1626
(Date) (Time)

... and requested the following:

RUN DI STLC Cr ON ALL SAMPLES

Turnaround time requested for additional work: 5

[Signature] 11-25-19
(Signature) (Date)

Updated lab job database and file folder by: [Signature] 6.4

Cc: _____



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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K1268 COC #: GREEN
--	--	---

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-3 (19K1268-03) Soil Sampled: 11/18/19 08:46 Received: 11/25/19 17:53									
Hexavalent Chromium, DI STLC	ND	1.0	µg/L	1	1910041	12/02/19	12/03/19	EPA 7199	
SP-21 (19K1268-21) Soil Sampled: 11/18/19 09:24 Received: 11/25/19 17:53									
Hexavalent Chromium, DI STLC	ND	1.0	µg/L	1	1910041	12/02/19	12/03/19	EPA 7199	



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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K1268 COC #: GREEN
--	--	---

DI STLC (DI WET) Extractable Petroleum Hydrocarbons by EPA 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-1 (19K1268-01) Soil Sampled: 11/18/19 08:41 Received: 11/25/19 17:53									
Motor Oil	ND	0.050	mg/L	1	1910062	12/02/19	12/02/19	EPA 8015M	
<i>Surrogate: o-Terphenyl</i>		69 %	65-135		"	"	"	"	
SP-2 (19K1268-02) Soil Sampled: 11/18/19 08:44 Received: 11/25/19 17:53									
Motor Oil	ND	0.050	mg/L	1	1910062	12/02/19	12/02/19	EPA 8015M	
<i>Surrogate: o-Terphenyl</i>		89 %	65-135		"	"	"	"	
SP-3 (19K1268-03) Soil Sampled: 11/18/19 08:46 Received: 11/25/19 17:53									
Motor Oil	ND	0.050	mg/L	1	1910062	12/02/19	12/02/19	EPA 8015M	
<i>Surrogate: o-Terphenyl</i>		77 %	65-135		"	"	"	"	
SP-4 (19K1268-04) Soil Sampled: 11/18/19 08:48 Received: 11/25/19 17:53									
Motor Oil	ND	0.050	mg/L	1	1910062	12/02/19	12/02/19	EPA 8015M	
<i>Surrogate: o-Terphenyl</i>		68 %	65-135		"	"	"	"	
SP-5 (19K1268-05) Soil Sampled: 11/18/19 08:50 Received: 11/25/19 17:53									
Motor Oil	ND	0.050	mg/L	1	1910062	12/02/19	12/02/19	EPA 8015M	
<i>Surrogate: o-Terphenyl</i>		77 %	65-135		"	"	"	"	
SP-6 (19K1268-06) Soil Sampled: 11/18/19 08:52 Received: 11/25/19 17:53									
Diesel	ND	0.050	mg/L	1	1910062	12/02/19	12/02/19	EPA 8015M	
<i>Surrogate: o-Terphenyl</i>		68 %	65-135		"	"	"	"	
SP-7 (19K1268-07) Soil Sampled: 11/18/19 08:56 Received: 11/25/19 17:53									
Motor Oil	ND	0.050	mg/L	1	1910062	12/02/19	12/02/19	EPA 8015M	



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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K1268 COC #: GREEN
--	--	---

DI STLC (DI WET) Extractable Petroleum Hydrocarbons by EPA 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-7 (19K1268-07) Soil Sampled: 11/18/19 08:56 Received: 11/25/19 17:53									
Surrogate: o-Terphenyl		67 %	65-135		1910062	"	12/02/19	EPA 8015M	
SP-8 (19K1268-08) Soil Sampled: 11/18/19 08:58 Received: 11/25/19 17:53									
Motor Oil	ND	0.050	mg/L	1	1910062	12/02/19	12/02/19	EPA 8015M	
Surrogate: o-Terphenyl		103 %	65-135		"	"	"	"	
SP-9 (19K1268-09) Soil Sampled: 11/18/19 09:00 Received: 11/25/19 17:53									
Motor Oil	ND	0.050	mg/L	1	1910062	12/02/19	12/02/19	EPA 8015M	
Surrogate: o-Terphenyl		73 %	65-135		"	"	"	"	
SP-10 (19K1268-10) Soil Sampled: 11/18/19 09:02 Received: 11/25/19 17:53									
Motor Oil	ND	0.050	mg/L	1	1910062	12/02/19	12/02/19	EPA 8015M	
Surrogate: o-Terphenyl		67 %	65-135		"	"	"	"	
SP-11 (19K1268-11) Soil Sampled: 11/18/19 09:03 Received: 11/25/19 17:53									
Motor Oil	ND	0.050	mg/L	1	1910062	12/02/19	12/02/19	EPA 8015M	
Surrogate: o-Terphenyl		88 %	65-135		"	"	"	"	
SP-12 (19K1268-12) Soil Sampled: 11/18/19 09:05 Received: 11/25/19 17:53									
Motor Oil	ND	0.050	mg/L	1	1910062	12/02/19	12/02/19	EPA 8015M	
Surrogate: o-Terphenyl		69 %	65-135		"	"	"	"	
SP-13 (19K1268-13) Soil Sampled: 11/18/19 09:08 Received: 11/25/19 17:53									
Motor Oil	ND	0.050	mg/L	1	1910062	12/02/19	12/02/19	EPA 8015M	
Surrogate: o-Terphenyl		76 %	65-135		"	"	"	"	



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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K1268 COC #: GREEN
--	--	---

DI STLC (DI WET) Extractable Petroleum Hydrocarbons by EPA 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-14 (19K1268-14) Soil Sampled: 11/18/19 09:10 Received: 11/25/19 17:53									
Motor Oil	ND	0.050	mg/L	1	1910062	12/02/19	12/02/19	EPA 8015M	
<i>Surrogate: o-Terphenyl</i>		68 %	65-135		"	"	"	"	
SP-15 (19K1268-15) Soil Sampled: 11/18/19 09:12 Received: 11/25/19 17:53									
Motor Oil	ND	0.050	mg/L	1	1910062	12/02/19	12/02/19	EPA 8015M	
<i>Surrogate: o-Terphenyl</i>		72 %	65-135		"	"	"	"	
SP-16 (19K1268-16) Soil Sampled: 11/18/19 09:13 Received: 11/25/19 17:53									
Motor Oil	ND	0.050	mg/L	1	1910062	12/02/19	12/02/19	EPA 8015M	
<i>Surrogate: o-Terphenyl</i>		69 %	65-135		"	"	"	"	
SP-17 (19K1268-17) Soil Sampled: 11/18/19 09:15 Received: 11/25/19 17:53									
Motor Oil	ND	0.050	mg/L	1	1910062	12/02/19	12/02/19	EPA 8015M	
<i>Surrogate: o-Terphenyl</i>		87 %	65-135		"	"	"	"	
SP-18 (19K1268-18) Soil Sampled: 11/18/19 09:17 Received: 11/25/19 17:53									
Motor Oil	ND	0.050	mg/L	1	1910062	12/02/19	12/02/19	EPA 8015M	
<i>Surrogate: o-Terphenyl</i>		77 %	65-135		"	"	"	"	
SP-19 (19K1268-19) Soil Sampled: 11/18/19 09:19 Received: 11/25/19 17:53									
Motor Oil	ND	0.050	mg/L	1	1910062	12/02/19	12/02/19	EPA 8015M	
<i>Surrogate: o-Terphenyl</i>		76 %	65-135		"	"	"	"	
SP-20 (19K1268-20) Soil Sampled: 11/18/19 09:21 Received: 11/25/19 17:53									
Motor Oil	ND	0.050	mg/L	1	1910062	12/02/19	12/02/19	EPA 8015M	



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--	--	---

DI STLC (DI WET) Extractable Petroleum Hydrocarbons by EPA 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-20 (19K1268-20) Soil Sampled: 11/18/19 09:21 Received: 11/25/19 17:53									
Surrogate: <i>o</i> -Terphenyl		66 %	65-135		1910062	"	12/02/19	EPA 8015M	
SP-21 (19K1268-21) Soil Sampled: 11/18/19 09:24 Received: 11/25/19 17:53									
Motor Oil	ND	0.050	mg/L	1	1910064	12/02/19	12/02/19	EPA 8015M	
Surrogate: <i>o</i> -Terphenyl		73 %	65-135		"	"	"	"	
SP-22 (19K1268-22) Soil Sampled: 11/18/19 09:27 Received: 11/25/19 17:53									
Motor Oil	ND	0.050	mg/L	1	1910064	12/02/19	12/02/19	EPA 8015M	
Surrogate: <i>o</i> -Terphenyl		79 %	65-135		"	"	"	"	
SP-23 (19K1268-23) Soil Sampled: 11/18/19 09:30 Received: 11/25/19 17:53									
Motor Oil	ND	0.050	mg/L	1	1910064	12/02/19	12/02/19	EPA 8015M	
Surrogate: <i>o</i> -Terphenyl		73 %	65-135		"	"	"	"	
SP-24 (19K1268-24) Soil Sampled: 11/18/19 09:33 Received: 11/25/19 17:53									
Motor Oil	ND	0.050	mg/L	1	1910064	12/02/19	12/02/19	EPA 8015M	
Surrogate: <i>o</i> -Terphenyl		67 %	65-135		"	"	"	"	



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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K1268 COC #: GREEN
--	--	---

DI STLC (DI WET) Metals by 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-1 (19K1268-01) Soil Sampled: 11/18/19 08:41 Received: 11/25/19 17:53									
Chromium	ND	0.020	mg/L	1	1910134	12/03/19	12/04/19	EPA 6010B	
SP-2 (19K1268-02) Soil Sampled: 11/18/19 08:44 Received: 11/25/19 17:53									
Chromium	ND	0.020	mg/L	1	1910134	12/03/19	12/04/19	EPA 6010B	
SP-3 (19K1268-03) Soil Sampled: 11/18/19 08:46 Received: 11/25/19 17:53									
Chromium	ND	0.020	mg/L	1	1910134	12/03/19	12/04/19	EPA 6010B	
SP-4 (19K1268-04) Soil Sampled: 11/18/19 08:48 Received: 11/25/19 17:53									
Chromium	ND	0.020	mg/L	1	1910134	12/03/19	12/04/19	EPA 6010B	
SP-5 (19K1268-05) Soil Sampled: 11/18/19 08:50 Received: 11/25/19 17:53									
Chromium	ND	0.020	mg/L	1	1910134	12/03/19	12/04/19	EPA 6010B	
SP-6 (19K1268-06) Soil Sampled: 11/18/19 08:52 Received: 11/25/19 17:53									
Chromium	ND	0.020	mg/L	1	1910134	12/03/19	12/04/19	EPA 6010B	
SP-7 (19K1268-07) Soil Sampled: 11/18/19 08:56 Received: 11/25/19 17:53									
Chromium	ND	0.020	mg/L	1	1910134	12/03/19	12/04/19	EPA 6010B	
SP-8 (19K1268-08) Soil Sampled: 11/18/19 08:58 Received: 11/25/19 17:53									
Chromium	ND	0.020	mg/L	1	1910134	12/03/19	12/04/19	EPA 6010B	
SP-9 (19K1268-09) Soil Sampled: 11/18/19 09:00 Received: 11/25/19 17:53									
Chromium	ND	0.020	mg/L	1	1910134	12/03/19	12/04/19	EPA 6010B	



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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: Yolo County Detention Basin Project Number: 20202251.002A Task 01 Project Manager: Mike VanDenEnden	CLS Work Order #: 19K1268 COC #: GREEN
--	--	---

DI STLC (DI WET) Metals by 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-10 (19K1268-10) Soil Sampled: 11/18/19 09:02 Received: 11/25/19 17:53									
Chromium	ND	0.020	mg/L	1	1910134	12/03/19	12/04/19	EPA 6010B	
SP-11 (19K1268-11) Soil Sampled: 11/18/19 09:03 Received: 11/25/19 17:53									
Chromium	ND	0.020	mg/L	1	1910134	12/03/19	12/04/19	EPA 6010B	
SP-12 (19K1268-12) Soil Sampled: 11/18/19 09:05 Received: 11/25/19 17:53									
Chromium	ND	0.020	mg/L	1	1910134	12/03/19	12/04/19	EPA 6010B	
SP-13 (19K1268-13) Soil Sampled: 11/18/19 09:08 Received: 11/25/19 17:53									
Chromium	ND	0.020	mg/L	1	1910134	12/03/19	12/04/19	EPA 6010B	
SP-14 (19K1268-14) Soil Sampled: 11/18/19 09:10 Received: 11/25/19 17:53									
Chromium	ND	0.020	mg/L	1	1910134	12/03/19	12/04/19	EPA 6010B	
SP-15 (19K1268-15) Soil Sampled: 11/18/19 09:12 Received: 11/25/19 17:53									
Chromium	ND	0.020	mg/L	1	1910134	12/03/19	12/04/19	EPA 6010B	
SP-16 (19K1268-16) Soil Sampled: 11/18/19 09:13 Received: 11/25/19 17:53									
Chromium	ND	0.020	mg/L	1	1910134	12/03/19	12/04/19	EPA 6010B	
SP-17 (19K1268-17) Soil Sampled: 11/18/19 09:15 Received: 11/25/19 17:53									
Chromium	ND	0.020	mg/L	1	1910135	12/03/19	12/04/19	EPA 6010B	
SP-18 (19K1268-18) Soil Sampled: 11/18/19 09:17 Received: 11/25/19 17:53									
Chromium	ND	0.020	mg/L	1	1910135	12/03/19	12/04/19	EPA 6010B	



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DI STLC (DI WET) Metals by 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-19 (19K1268-19) Soil Sampled: 11/18/19 09:19 Received: 11/25/19 17:53									
Chromium	ND	0.020	mg/L	1	1910135	12/03/19	12/04/19	EPA 6010B	
SP-20 (19K1268-20) Soil Sampled: 11/18/19 09:21 Received: 11/25/19 17:53									
Chromium	ND	0.020	mg/L	1	1910135	12/03/19	12/04/19	EPA 6010B	
SP-21 (19K1268-21) Soil Sampled: 11/18/19 09:24 Received: 11/25/19 17:53									
Chromium	ND	0.020	mg/L	1	1910135	12/03/19	12/04/19	EPA 6010B	
SP-22 (19K1268-22) Soil Sampled: 11/18/19 09:27 Received: 11/25/19 17:53									
Chromium	ND	0.020	mg/L	1	1910135	12/03/19	12/04/19	EPA 6010B	
SP-23 (19K1268-23) Soil Sampled: 11/18/19 09:30 Received: 11/25/19 17:53									
Chromium	ND	0.020	mg/L	1	1910135	12/03/19	12/04/19	EPA 6010B	
SP-24 (19K1268-24) Soil Sampled: 11/18/19 09:33 Received: 11/25/19 17:53									
Chromium	ND	0.020	mg/L	1	1910135	12/03/19	12/04/19	EPA 6010B	



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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1910041 - General Prep										
Blank (1910041-BLK1)										
				Prepared: 12/02/19 Analyzed: 12/03/19						
Hexavalent Chromium, DI STLC	ND	10	µg/L							
LCS (1910041-BS1)										
				Prepared: 12/02/19 Analyzed: 12/03/19						
Hexavalent Chromium, DI STLC	104	10	µg/L	100		104	80-120			
LCS Dup (1910041-BSD1)										
				Prepared: 12/02/19 Analyzed: 12/03/19						
Hexavalent Chromium, DI STLC	110	10	µg/L	100		110	80-120	5	20	
Matrix Spike (1910041-MS1)										
				Source: 19K1170-09			Prepared: 12/02/19 Analyzed: 12/03/19			
Hexavalent Chromium, DI STLC	390	10	µg/L	100	261	128	75-125			QM-5
Matrix Spike Dup (1910041-MSD1)										
				Source: 19K1170-09			Prepared: 12/02/19 Analyzed: 12/03/19			
Hexavalent Chromium, DI STLC	329	10	µg/L	100	261	68	75-125	17	25	QM-5



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DI STLC (DI WET) Extractable Petroleum Hydrocarbons by EPA 8015M - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1910062 - EPA 3510B GCNV

Blank (1910062-BLK1) Prepared & Analyzed: 12/02/19

Diesel	ND	0.050	mg/L							
Motor Oil	ND	0.050	"							
Surrogate: <i>o</i> -Terphenyl	0.0260		"	0.0250		104	65-135			

LCS (1910062-BS1) Prepared & Analyzed: 12/02/19

Diesel	2.32	0.050	mg/L	2.50		93	65-135			
Surrogate: <i>o</i> -Terphenyl	0.0176		"	0.0250		70	65-135			

LCS Dup (1910062-BSD1) Prepared & Analyzed: 12/02/19

Diesel	2.12	0.050	mg/L	2.50		85	65-135	9	30	
Surrogate: <i>o</i> -Terphenyl	0.0202		"	0.0250		81	65-135			

Batch 1910064 - EPA 3510B GCNV

Blank (1910064-BLK1) Prepared & Analyzed: 12/02/19

Diesel	ND	0.050	mg/L							
Motor Oil	ND	0.050	"							
Surrogate: <i>o</i> -Terphenyl	0.0186		"	0.0250		74	65-135			

LCS (1910064-BS1) Prepared & Analyzed: 12/02/19

Diesel	2.22	0.050	mg/L	2.50		89	65-135			
Surrogate: <i>o</i> -Terphenyl	0.0191		"	0.0250		76	65-135			

LCS Dup (1910064-BSD1) Prepared & Analyzed: 12/02/19

Diesel	1.97	0.050	mg/L	2.50		79	65-135	12	30	
Surrogate: <i>o</i> -Terphenyl	0.0185		"	0.0250		74	65-135			



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DI STLC (DI WET) Metals by 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1910134 - EPA 3010A										
Blank (1910134-BLK1)				Prepared: 12/03/19 Analyzed: 12/04/19						
Chromium	ND	0.020	mg/L							
LCS (1910134-BS1)				Prepared: 12/03/19 Analyzed: 12/04/19						
Chromium	9.84	0.020	mg/L	10.0		98	75-125			
Matrix Spike (1910134-MS1)				Source: 19K1268-16 Prepared: 12/03/19 Analyzed: 12/04/19						
Chromium	0.964	0.020	mg/L	1.00	ND	96	75-125			
Matrix Spike Dup (1910134-MSD1)				Source: 19K1268-16 Prepared: 12/03/19 Analyzed: 12/04/19						
Chromium	1.01	0.020	mg/L	1.00	ND	101	75-125	5	30	
Batch 1910135 - EPA 3010A										
Blank (1910135-BLK1)				Prepared: 12/03/19 Analyzed: 12/04/19						
Chromium	ND	0.020	mg/L							
LCS (1910135-BS1)				Prepared: 12/03/19 Analyzed: 12/04/19						
Chromium	1.08	0.020	mg/L	1.00		108	75-125			
Matrix Spike (1910135-MS1)				Source: 19K1268-17 Prepared: 12/03/19 Analyzed: 12/04/19						
Chromium	0.986	0.020	mg/L	1.00	ND	99	75-125			
Matrix Spike Dup (1910135-MSD1)				Source: 19K1268-17 Prepared: 12/03/19 Analyzed: 12/04/19						
Chromium	1.00	0.020	mg/L	1.00	ND	100	75-125	1	30	



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Project: Yolo County Detention Basin
Project Number: 20202251.002A Task 01
Project Manager: Mike VanDenEnden

CLS Work Order #: 19K1268
COC #: GREEN

Notes and Definitions

QM-5	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference