

Phase II Environmental Site Assessment Report
**368 & 402 PETALUMA BOULEVARD NORTH
PROPERTIES**

Petaluma, California

WKA No. 10410.04

December 16, 2016

Prepared for:

Mr. Jeff Morgan

A.G. Spanos Companies

10100 Trinity Parkway, 5th Floor

Stockton, CA 95219

Prepared By:

Wallace-Kuhl & Associates

3050 Industrial Boulevard

West Sacramento, California 95691

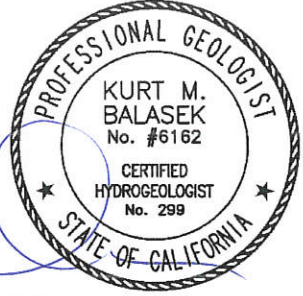

Phase II Environmental Site Assessment Report
368 & 402 PETALUMA BOULEVARD NORTH PROPERTIES
Petaluma, California
WKA No. 10410.04
December 16, 2016

Wallace-Kuhl & Associates (WKA), on behalf of A.G. Spanos Companies, prepared this *Phase II Environmental Site Assessment Report* for the 368 & 402 Petaluma Boulevard North Properties located in Petaluma, Solano County, California. The report was prepared in a manner consistent with the level of care and skill ordinarily exercised by professional geologists and environmental scientists. This report was prepared under the supervision of a California Professional Geologist.

WALLACE ■ KUHL & ASSOCIATES



Nelson S. Pi, M.S., E.I.T.
Staff Engineer



Kurt Balasek, P.G., C.HG.
Senior Hydrogeologist

Phase II Environmental Site Assessment Report
368 & 402 PETALUMA BOULEVARD NORTH PROPERTIES
Petaluma, California
WKA No. 10410.04

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1.0 INTRODUCTION

Wallace-Kuhl and Associates (WKA) has prepared this report to describe activities performed to evaluate shallow soil at the 368 & 402 Petaluma Boulevard North Properties (Site) located in Petaluma, Sonoma County, California (Figures 1 and 2). The Site is comprised of 3.8 acres of land identified by Sonoma County Assessor's Parcel Numbers (APNs) 006-163-040 and 006-163-041

2.0 BACKGROUND

WKA's March 4, 2016, Phase I Environmental Assessment (ESA) report included recommendations to complete a Phase II ESA to evaluate Site soil conditions in the areas currently occupied and previously occupied by buildings, in the vicinity of the railroad tracks transecting the center of the Site, and in the area of a removed 500-gallon underground unleaded gasoline storage tank (UST). Figure 3 illustrates the locations of structures present at the Site and Table A provides a summary of the features associated with the Site.

Table A – Site Feature Summary

Location	Area Type	Foundation
Structure 1	Existing Structure	Present
Structure 2	Post-demolition	Removed
Structure 3	Post-demolition	Removed
Structures 4, 5, 6, 7, 8, and 9	Post-demolition	Removed
Structure 10	Post-demolition	Present
Structure 11	Post-demolition	Removed
Structure 12	Post-demolition	Removed
Structures 13, 14, 15, 16, and 17	Post-demolition	Removed
Structure 18	Post-demolition	Removed
Structure 19	Post-demolition	Present
Structure 20	Post-demolition	Removed
333333Structure 21 and 22	Post-demolition	Removed
Structures 23, 24, 25, 26	Post-demolition	Removed
Structure 27/28/29/30	Post-demolition	Present
Structure 31/32	Existing Structure	Present



Table A – Site Feature Summary

Location	Area Type	Foundation
Structure 33	Post-demolition	Removed
Structure 34	Post-demolition	Removed
Railroad Tracks	Railroad Tracks	--
Removed 500-gallon UST	UST	--

Notes: UST – Underground Storage Tank

The areas of the structures have the potential to contain residue from lead-based paint and organochlorine pesticides (OCPs) applied as termiticides. Petroleum fuel products may have been introduced to soil where automotive maintenance activities were previously conducted. Areas previously occupied by structures utilized by blacksmiths have the potential to contain polynuclear aromatic hydrocarbons (PAHs) from ash and metals related to the fabrication of carriage and wagon parts. The surface soil in the area occupied by the railroad tracks also has the potential to contain metals, petroleum fuel products, and herbicides related to railway maintenance and train operations. The previous assessment of soil surrounding the UST did not include the analysis of methyl tertiary butyl ether (MTBE), which was assessed as part of this study. Table B shows each location, the previous use, and the accompanying chemicals of concern.

Table B – Chemicals of Concern

Location	Previous Use	Chemicals of Concern
Structure 1	General Use	Lead and OCPs
Structure 2	General Use	Lead*
Structure 3	Oil Storage	Lead and Petroleum Hydrocarbons
Structures 4 and 5	General Use	Lead*
Structures 6, 7, 8, and 9	General Use	Lead and OCPs
Structure 10	General Use	Lead and OCPs
Structure 11	Blacksmith	Lead, PAHs, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc
Structure 12	General Use	Lead*
Structures 13, 14, 15, and 16	General Use	Lead*
Structure 17	General Use	Lead and OCPs
Structure 18	General Use	Lead and OCPs
Structure 19	Blacksmith	Lead, PAHs, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc
Structure 20 and 21	General Use	Lead*



Table B – Chemicals of Concern

Location	Previous Use	Chemicals of Concern
Structure 22 and 23		Lead and OCPs
Structures 24, 25, 26	General Use	Lead*
Structure 27/28/29/30	General Use	Lead and OCPs
Structure 31/32	General Use	Lead and OCPs
Structure 33	General Use	Lead and OCPs
Structure 34	Detached Garage	Lead, OCPs, Petroleum Hydrocarbons and Fuel Products
Railroad Tracks	Railroad	Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Mercury, Molybdenum, Lead, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc, Petroleum Hydrocarbons, PAHs, and Chlorinated Herbicides
Removed UST	500-gallon UST	MTBE

Notes: OCPs – Organochlorine Pesticides
 MTBE – Methyl Tertiary Butyl Ether
 PAHs – Polynuclear Aromatic Hydrocarbons
 *Structure removed prior to a period when the use of OCPs as a termiticide started

The Phase II ESA does not address potential impacts to groundwater from off-site facilities located adjacent to the Site.

3.0 OBJECTIVE

The purpose of this Phase II assessment was to determine if chemicals associated with historical land uses are present in shallow Site soil at concentrations that would pose a threat to human health based on a residential land use scenario.

WKA staff utilized the State of California, Department of Toxics Substances Control's (DTSC's) *Interim Guidance for Sampling Agricultural Properties (Third Revision)*, dated August 7, 2008, and DTSC's *Interim Guidance Evaluation of School Sites with Potential Soil Contamination as a Result of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers Revised June 9, 2006* to guide selection of the number of sample locations and potential contaminants appropriate for evaluating shallow soil at the Site.



4.0 FIELD ACTIVITIES

WKA marked each selected sample location using white paint/flagging and contacted Underground Service Alert (USA) a minimum of 48 hours before beginning field activities.

WKA utilized Global Information System software to locate former Structure areas and identify sample locations as shown in Figure 4. Sample location coordinates were loaded into a high precision Global Positioning System receiver (GPSr). WKA used the GPSr to navigate to each sample location as summarized in Table C.

Table C – Sample Location Summary

Location	Sample Depth	Number of Samples	Sample IDs
Structure 1	0 – 6 inches	7	S1 through S7
Structure 2	0 – 6 inches	1	S8
Structure 3	0 – 6 inches	4	S9 through S12
Structure 4 and 5	0 – 6 inches	4	S13 through S16
Structure 6, 7, 8, and 9	0 – 6 inches	6	S17 through S22
Structure 10	0 – 6 inches	8	S23 through S30
Structure 11	0 – 6 inches	4	S31 through S34
Structure 12	0 – 6 inches	1	S35
Structure 13, 14, 15, and 16	0 – 6 inches	8	S36 through S43
Structure 17	0 – 6 inches	6	S44 through S49
Structure 18	0 – 6 inches	8	S50 through S57
Structure 19	0 – 6 inches	4	S58 through S61
Structure 20 and 21	0 – 6 inches	4	S62 through S65
Structure 22 and 23	0 – 6 inches	4	S66 through S69
Structure 24, 25, and 26	0 – 6 inches	4	S70 through S73
Structure 27/28/29/30	0 – 6 inches	4	S74 through S77
Structure 31/32	0 – 6 inches	5	S78 through S82
Structure 33	0 – 6 inches	1	S83
Structure 34	0 – 6 inches	6	S84 through S89
Railroad Tracks	0 – 6 inches	4	S90 through S93
Removed 500-gallon UST	30 – 36 inches	1	S94

Samples were collected using hand sampling methods. Gravel was removed to expose native soil where necessary. WKA collected each soil sample into laboratory provided clean; glass jars sealed using a Teflon™-lined cap. WKA labeled each container to indicate a unique sample identification and the date and time collected. WKA preserved samples in a chilled, thermally insulated container during transport to the analytical laboratory with completed chain-of-custody forms. Sample locations are illustrated in Figures 5 and 6.



Existing Structures (Structures 1 and 31/32)

Three surface soil samples were collected at a depth between zero and six inches below ground surface (bgs) from locations along the north, east, and south side of Structure 1 within two feet of the structure. The northern and southern sides of Structure 1 are paved with asphalt a portion of the asphalt was removed to expose native soil and a soil sample was collected beneath the asphalt. The west side of Structure 1 is paved with concrete and was not sampled.

One surface soil sample was collected at a depth between zero and six inches bgs from locations along the east side of Structures 31/32 within two feet of the structure. The northern side of Structures 31/32 was previously a shared wall. The south side of Structures 31/32 falls outside of Site boundaries and the west sides of Structures 31/32 is paved with concrete. The north, south, and west sides of Structures 31/32 were not sampled.

WKA also collected four soil samples beneath the raised foundations of Structure 1 and four soil samples beneath the raised foundations of Structures 31/32. Samples were in areas of exposed soil. The building footprint for each structure was divided into four equally sized areas and a surface soil sample was collected at a depth between zero and six inches bgs at the approximate center of each quadrant.

Post-Demolition Structures with Foundation Present (Structures 10, 18, and 27/28/29/30)

WKA collected four soil samples from locations along the perimeter of the previous location of Structures 10 and 18, as denoted by the remaining stem wall on-site. Four surface soil samples were collected at a depth between zero and six inches bgs along the north and east sides of the area previously occupied by Structure 10. WKA also collected four surface soil samples at a depth between zero and six inches bgs along the east and south sides of the area previously occupied by Structure 18.

WKA also collected eight soil samples within the footprint of Structures 10 and 18. The building footprint for each structure was divided into four approximately equal sized areas and a surface soil sample was collected at a depth between zero and six inches bgs at the approximate center of each quadrant.

WKA collected four soil samples along the perimeter of the foundation for Structures 27/28/29/30. Samples were collected at a depth between zero and six inches bgs along the north, east, south, and west sides of the foundation.

Post-Demolition Structures with no Foundation Present
(Structures 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19, 20, 21, 23, 24, 25, 26, 33, and 34)



The area previously occupied by Structure 3 was used as an oil storage area. The footprint of Structure 3 was divided into four equally sized areas and a surface soil sample was collected at a depth between zero and six inches bgs at the approximate center of each quadrant.

WKA also collected six surface soil samples within the area previously occupied by Structure 34. This location was used as a detached garage where automotive maintenance activities may have taken place. WKA divided the footprint of Structure HH into six equally sized areas. A surface soil sample was collected at a depth between zero and six inches bgs at the approximate center of each section.

WKA collected eight surface soil samples within the area previously occupied by Structures 11 and 19. These locations were used as blacksmith for carriage and wagon parts. WKA divided the footprint of Structures 11 and 19 into four equally sized areas. A surface soil sample was collected at a depth between zero and six inches bgs at the approximate center of each area.

The remaining sampling protocol for the structures previously located on-site is as follows:

Table D – Post Demolition Structure Sampling

Location	Sample Location	Sample Depth
Structure B	One sample within footprint	Zero to six inches
Structure D	Two samples within footprint	Zero to six inches
Structure E	Two samples within footprint	Zero to six inches
Structures F, G, H, and I	Six samples within combined footprint	Zero to six inches
Structure L	One sample within footprint	Zero to six inches
Structures M, O, P, and Q	Eight samples within combined footprint	Zero to six inches
Structure N	Two samples within footprint	Zero to six inches
Structure R	Six samples within footprint	Zero to six inches
Structure U and V	Four samples within combined footprint	Zero to six inches
Structure W, X, and Y	Four samples within combined footprint	Zero to six inches
Structure Z	Two samples within footprint	Zero to six inches
Structure EE	One sample within footprint	Zero to six inches

Railroad Track Area

The approximately 340 feet length of the railroad track area was divided into four 85-foot sections. WKA collected four soil samples on in the vicinity of the railroad tracks at the approximate center of each section length at a depth between zero and six inches bgs. The collected soil was a dry to slightly moist, brown, clayey silt.



Underground Storage Tank Area

A UST located on the eastern side of Structure 1 was removed in 1987. A previous assessment of the soil beneath the tank was limited to TPHg. WKA hand augered to a depth of three feet bgs at the approximate location of the removed UST. Groundwater was encountered at three feet bgs and a soil sample was collected above the groundwater table in the unsaturated zone at a depth between 30 and 36 inches bgs. The collected soil was slightly moist, dark brown to brown, clayey silt.

5.0 LABORATORY ANALYSES

California Laboratory Services, a California State Water Resources Control Board certified laboratory, conducted the requested soil laboratory analyses.

Table E – Summary of Laboratory Analyses

Location	Sample IDs	Compositing Schedule and Analysis
Structure 1	S1 through S3	3:1 Composite OCPs Discrete Lead
	S4 through S8	4:1 Composite OCPs Discrete Lead
Structure 2	S8	Discrete Lead
Structure 3	S9 through S12	4:1 Composite Petroleum Hydrocarbons Discrete Lead
Structures 4 and 5	S13 through S16	Discrete Lead
Structures 6, 7, 8, and 9	S17 through S22	3:1 Composite OCPs Discrete Lead
Structure 10	S23 through S30	4:1 Composite OCPs Discrete Lead
Structure 11	S31 through S34	Discrete PAHs Discrete CAM 17 Metals
Structure 12	S35	Discrete Lead
Structures 13, 14, 15, and 16	S36 through S43	Discrete Lead
Structure 17	S44 through S49	3:1 Composite OCPs Discrete Lead
Structure 18	S50 through S57	4:1 Composite OCPs Discrete Lead
Structure 19	S58 through S61	Discrete PAHs Discrete CAM 17 Metals
Structure 20 and 21	S62 through S65	Discrete Lead



Table E – Summary of Laboratory Analyses

Location	Sample IDs	Compositing Schedule and Analysis
Structure 22 and 23	S66 through S69	2:1 Composite OCPs Discrete Lead
Structures 24, 25, 26	S70 through S73	Discrete Lead
Structure 27/28/29/30	S74 through S77	4:1 Composite OCPs Discrete Lead
Structure 31/32	S78	Discrete OCPs Discrete Lead
	S79 through S82	4:1 Composite OCPs Discrete Lead
Structure 33	S83	Discrete OCPs Discrete Lead
Structure 34	S84 through S89	3:1 Composite Five Waste Oil Metals 3:1 Composite OCPs 3:1 Composite Petroleum Hydrocarbons and Fuel Products
Railroad Tracks	S90 through S93	4:1 Composite CAM 17 Metals 4:1 Composite Petroleum Hydrocarbons 4:1 Composite PAHs 4:1 Composite Chlorinated Herbicides
Removed UST	S94	Discrete MTBE

The specific test methods for each analyte mentioned above are summarized below.

-) OCPs using EPA Method 8081A;
-) Total lead using EPA Method 6010B;
-) TPHmo and TPHd using modified EPA Method 8015;
-) TPHg using EPA Method 8260B;
-) BTEX using EPA Method 8260B;
-) MTBE using EPA 8260B;
-) Five waste oil metals: cadmium, chromium, lead, nickel, and zinc using EPA Methods 6000/7000 series;
-) CAM 17 Metals: antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, mercury, molybdenum, lead, nickel, selenium, silver, thallium, vanadium, and zinc using EPA Methods 6010/6020/7000;
-) PAHs using EPA Method 8310 and,
-) Chlorinated herbicides using EPA 8151A.

Laboratory reports and chain-of-custody documents can be found in Appendix A.



6.0 FINDINGS

6.1 Organochlorine Pesticides

Table 1 presents laboratory results for the analysis of OCPs. DDT was detected in composite samples from the areas of Structure 1 (S4-7 (Composite)) and Structures 6, 7, 8, and 9 (S20-22 (Composite)) at concentrations of 0.11 milligrams per kilogram (mg/kg) and 0.019 mg/kg, respectively. Chlordane was detected in sample S78 from the area of Structure 31/32 at a concentration of 0.018 mg/kg. No other OCPs were detected above their laboratory reporting limit. The detected concentrations of DDT and Chlordane are below the San Francisco Bay Regional Water Quality Control Boards Environmental Screening Levels (ESLs) under a residential land use scenario.

6.2 Metals

Table 2 presents laboratory analytical results for the discrete analysis of lead. Lead was detected in 77 of the 81 samples analyzed discretely at concentrations ranging between 2.5 mg/kg and 420 mg/kg. Concentrations exceeding the residential ESL for lead (80 mg/kg) were detected in 19 of the 81 samples analyzed. Higher concentrations of lead can be correlated to the areas of Structure 1, Structure 2, and Structure 18.

Table 3 presents laboratory analytical results for CAM 17 metals and the five waste oil metals. With the exception of arsenic and the lead discussed above, all CAM 17 metals and the five waste oil metals were detected at concentrations below their respective residential ESLs.

Arsenic was detected at concentrations of 3.2 mg/kg in the composite sample (S90-93 (Composite)) collected near the Railroad Tracks. The detected concentration of arsenic falls above the residential ESL of 0.067 mg/kg. However, ESLs are risk based screening values, which are derived from equations that combine exposure assumptions with toxicity data and are not related to background levels of arsenic in the environment. The detected concentration of arsenic at the Site is likely representative of background conditions from naturally occurring sources. Background levels of arsenic is generally accepted as an appropriate screening criteria. The concentrations detected are typical of background conditions (7.0 to 8.3 mg/kg) for arsenic as determined by the United States Geological Survey's (USGS) *Geochemical and Mineralogical Maps for the Conterminous United States*.

6.3 Petroleum Hydrocarbon Related Products

Table 4 presents laboratory results for the analysis of petroleum hydrocarbon related products.



TPH as motor oil was detected at concentrations ranging between 4.7 mg/kg and 300 mg/kg. The detected concentrations of TPH as motor oil fall below the ESL for a residential land use scenario. The remaining petroleum hydrocarbon related analytes, TPH as diesel, TPH as gasoline, benzene, toluene, ethylbenzene, xylenes, and MTBE were not detected above laboratory reporting limits.

6.4 Chlorinated Herbicides

Table 5 presents laboratory results for the analyses of chlorinated herbicides. No chlorinated herbicides were detected at concentrations above the laboratory reporting limit.

6.5 Polynuclear Aromatic Hydrocarbons

Table 6 presents laboratory results for the analyses of PAHs. Eight of the 16 PAHs analyzed were detected above laboratory reporting limits. Benzo (a) anthracene, Benzo (a) pyrene, and Indeno (1,2,3-cd) pyrene were detected above their respective residential ESLs in sample S34.

7.0 CONCLUSIONS

WKA understands that the study area west of the rail line will be developed with a three-story apartment complex supported by a raised concrete podium with paved parking beneath the structures. WKA also understands that the extension of Oak Street will encompass a portion of the Site including the area of Structures 1 and 2.

WKA's Phase II assessment shows that the detected concentrations of organochlorine pesticides, petroleum hydrocarbon related products, and chlorinated herbicides all fall below their respective residential ESLs. Arsenic exceeded the residential ESLs. However, levels observed in samples from the site are consistent with naturally occurring arsenic in Bay Area soils as demonstrated by USGS' *Geochemical and Mineralogical Maps for the Conterminous United States* for the Petaluma area. Other metals, with the exception of lead, were also detected at concentrations below their respective residential ESLs.

WKA identified Site soil having concentrations of lead exceeding the residential ESL of 80 mg/kg. The highest concentrations of lead were identified in the area of Structures 1 and 2. A statistical analysis of the entire lead data set results in a 95% upper confidence limit (UCL) of 105.4 mg/kg. This result indicates that a degree of risk to human health is present under a residential land use scenario. The screening level of 160 mg/kg for a construction worker



scenario is also exceeded in the area of Structure 1 and 2 as well as the locations of soil samples S46, S50, S52, and S76.

Select PAHs (benzo (a) anthracene and benzo (a) pyrene) were also detected at concentrations exceeding their respective residential ESLs. Exposure to these soils will be restricted based on the proposed paved parking area beneath the structures. Based on the limited exposure routes, PAHs will not pose a significant risk to human health for a residential land use scenario and the concentrations detected fall below construction worker screening levels.

8.0 RECOMMENDATIONS

WKA recommends the removal of lead impacted soil in the area of Structures 1 and 2 and areas near the locations of soil samples S46, S50, S52, and S76. WKA also recommends the removal of soil impacted with elevated concentrations PAHs (Benzo (a) anthracene, Benzo (a) pyrene, and Indeno (1,2,3-cd) pyrene) in the areas near the locations of soil samples S32 and S34. With the removal of lead impacted soil in these areas, it is anticipated that the 95% UCL will be reduced to 53.97 mg/kg, a concentration which falls below the residential ESL for lead. The removal of lead and PAH impacted soil in these areas will reduce the exposure to elevated concentrations of lead to construction workers. All other exposures to Site soil by future occupants will be limited, based on the proposed paved parking configuration and limited exposure routes.

Any soil excavation activities will need to take place following the completion of a lead and asbestos survey of the existing Site structures and the demolition of the structures. It is estimated that the excavation to remove lead and PAH impacted soil in the area of Structures 1 and 2 and in the areas of soil samples S32, S34, S46, S50, S52, and S76 will generate approximately 310 cubic yards of soil based on an 18-inch excavation depth. This roughly equates to 19 tractor-trailer loads. Excavated soil will need to be stockpiled on and covered with plastic sheeting. Subsequent to stockpiling activities, the soil will need to be re-characterized for waste profiling and waste disposal acceptance.

9.0 LIMITATIONS

The statements and results presented in this report are based upon the scope of services performed as described above and on observations made on the dates of WKA's applicable fieldwork. The summary report was prepared in a manner consistent with the level of care and skill ordinarily exercised by Professional Geologists. Work was performed using a degree of skill

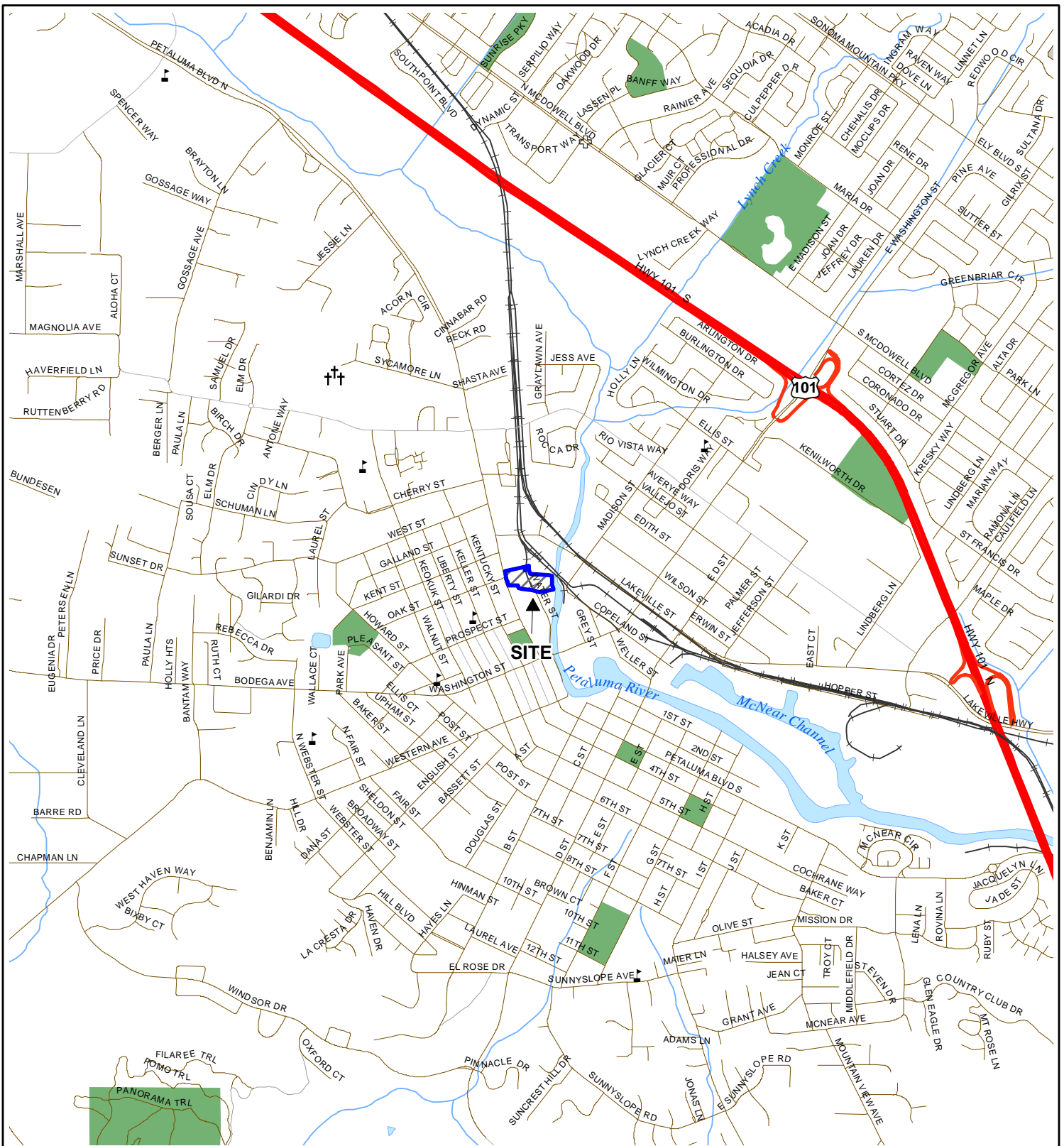


consistent with that of competent environmental consulting firms performing similar work in the area. No recommendation is made as to the suitability of the property for any purpose. The result of the investigation does not preclude the possibility that materials currently, or in the future, defined as hazardous are present on the site. This report is applicable only to the investigated site and should not be used for any other site. No warranty, either express or implied, is provided.

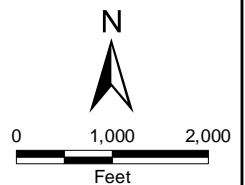


FIGURES





Street data courtesy of Sonoma County.
 Hydrography courtesy of the U.S. Geological Survey
 acquired from the GIS Data Depot, December, 2007.
 Projection: NAD 83, California State Plane, Zone II




VICINITY MAP
368 & 402 PETALUMA BOULEVARD NORTH
 Petaluma, California

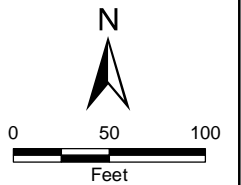
FIGURE 1	
DRAWN BY	RWO
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PROJECT MGR	KMB
DATE	12/16
WKA NO. 10410.04	



Aerial imagery courtesy of ESRI.
 Projection: NAD 83, California State Plane, Zone II

Legend

 Approximate Site Boundary



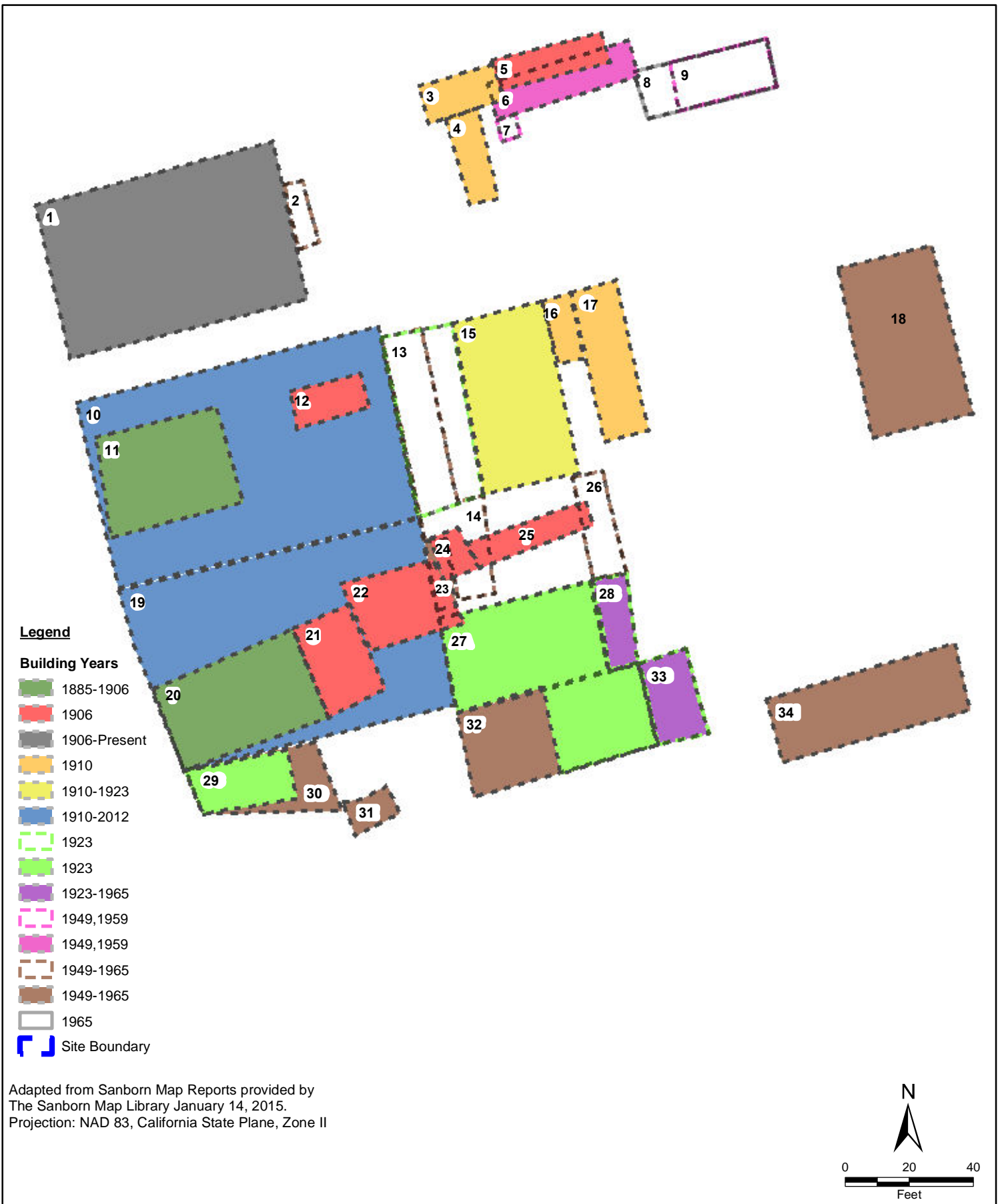
AERIAL SITE MAP

368 & 402 PETALUMA BOULEVARD NORTH
 Petaluma, California



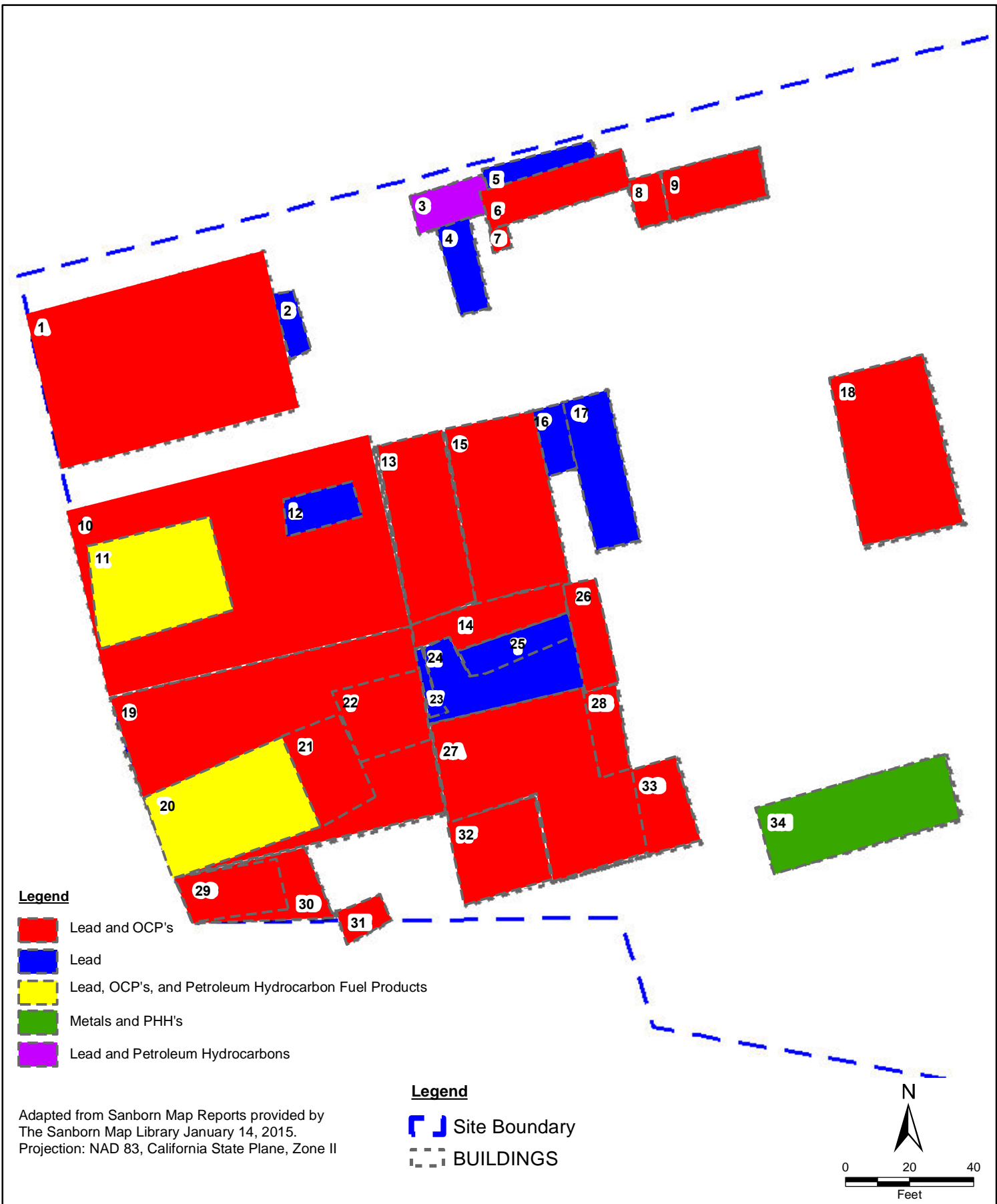
FIGURE 2

DRAWN BY	RWO
CHECKED BY	ML
PROJECT MGR	KMB
DATE	12/16
WKA NO. 10410.02	



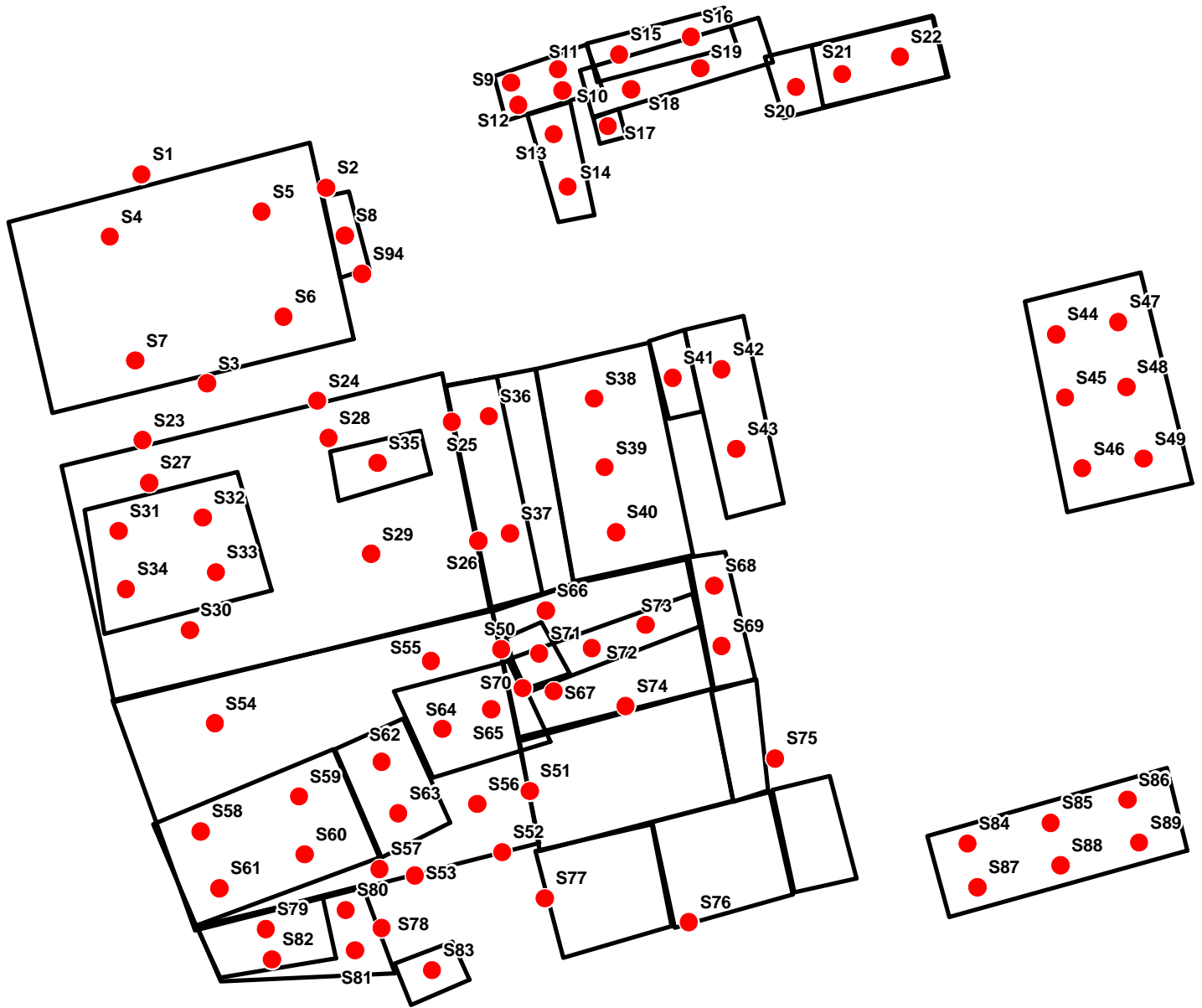
HISTORICAL BUILDING LOCATION MAP
 368 & 402 PETALUMA BOULEVARD NORTH
 Petaluma, California

FIGURE 3	
DRAWN BY	RWO
CHECKED BY	NSP
PROJECT MGR	KMB
DATE	12/16
WKA NO. 10410.03	





CHEMICALS OF CONCERN
 368 & 402 PETALUMA BOULEVARD NORTH
 Petaluma, California

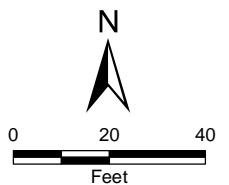
FIGURE 4	
DRAWN BY	RWO
CHECKED BY	NSP
PROJECT MGR	NSP
DATE	04/15
WKA NO. 3PR15091	



Adapted from Sanborn Map Reports provided by
 The Sanborn Map Library January 14, 2015.
 Projection: NAD 83, California State Plane, Zone II

Legend

-  Previous Structure Location
-  Approximate Soil Sample Location



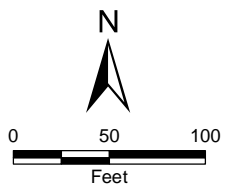
SAMPLE LOCATION MAP
 368 & 402 PETALUMA BOULEVARD NORTH
 Petaluma, California

FIGURE 5	
DRAWN BY	RWO
CHECKED BY	ML
PROJECT MGR	KMB
DATE	12/16
WKA NO. 10410.04	



Legend

- ┌└ Approximate Site Boundary
- Approximate Soil Sample Location



Aerial provided by ESRI.
 Projection: NAD 83, California State Plane, Zone II



SAMPLE LOCATION MAP (RAILROAD)
 368 & 402 PETALUMA BOULEVARD NORTH
 Petaluma, California

FIGURE 6	
DRAWN BY	RWO
CHECKED BY	ML
PROJECT MGR	KMB
DATE	12/16
WKA NO. 10410.04	

TABLES



Table 1
 Summary of Soil Analytical Results - Organochlorine Pesticides
368 402 PETALUMA BOULEVARD NORTH PROPERTY
 WKA No. 10410.04

	Sample ID	Sample Date	Sample Depth (in)	EPA Method 8081A																			
				4,4-DDD	4,4-DDE	4,4-DDT	Aldrin	alpha-BHC	beta-BHC	Chlordane-technical	delta-BHC	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Aldehyde	gamma-BHC (Lindane)	Heptachlor	Heptachlor Epoxide	Methoxychlor	Mirex	Toxaphene
Concentrations reported in milligrams per kilogram (mg/kg)																							
Structure 1	S1-3 (Composite)	11/29/2016	0 - 6	<0.033	<0.033	<0.033	<0.010	<0.017	<0.017	<0.033	<0.017	<0.010	<0.017	<0.033	<0.033	<0.033	<0.033	<0.017	<0.017	<0.017	<0.170	<0.033	<0.200
	S4-7 (Composite)	11/29/2016	0 - 6	<0.033	<0.033	0.11	<0.010	<0.017	<0.017	<0.033	<0.017	<0.010	<0.017	<0.033	<0.033	<0.033	<0.033	<0.017	<0.017	<0.017	<0.170	<0.033	<0.200
Structure 6, 7, 8, and 9	S17-19 (Composite)	11/29/2016	0 - 6	<0.017	<0.017	<0.017	<0.005	<0.0085	<0.0085	<0.017	<0.0085	<0.005	<0.0085	<0.017	<0.017	<0.017	<0.017	<0.0085	<0.0085	<0.0085	<0.085	<0.017	<0.100
	S20-22 (Composite)	11/29/2016	0 - 6	<0.017	<0.017	0.019	<0.005	<0.0085	<0.0085	<0.017	<0.0085	<0.005	<0.0085	<0.017	<0.017	<0.017	<0.017	<0.0085	<0.0085	<0.0085	<0.085	<0.017	<0.100
Structure 10	S23-26 (Composite)	11/29/2016	0 - 6	<0.033	<0.033	<0.033	<0.010	<0.017	<0.017	<0.033	<0.017	<0.010	<0.017	<0.033	<0.033	<0.033	<0.033	<0.017	<0.017	<0.017	<0.170	<0.033	<0.200
	S27-30 (Composite)	11/29/2016	0 - 6	<0.0033	<0.0033	<0.0033	<0.001	<0.0017	<0.0017	<0.0033	<0.0017	<0.001	<0.0017	<0.0033	<0.0033	<0.0033	<0.0033	<0.0017	<0.0017	<0.0017	<0.017	<0.0033	<0.020
Structure 17	S44-46 (Composite)	11/29/2016	0 - 6	<0.033	<0.033	<0.033	<0.010	<0.017	<0.017	<0.033	<0.017	<0.010	<0.017	<0.033	<0.033	<0.033	<0.033	<0.017	<0.017	<0.017	<0.170	<0.033	<0.200
	S47-49 (Composite)	11/29/2016	0 - 6	<0.017	<0.017	<0.017	<0.005	<0.0085	<0.0085	<0.017	<0.0085	<0.005	<0.0085	<0.017	<0.017	<0.017	<0.017	<0.0085	<0.0085	<0.0085	<0.085	<0.017	<0.100
Structure 18	S50-53 (Composite)	11/29/2016	0 - 6	<0.033	<0.033	<0.033	<0.010	<0.017	<0.017	<0.033	<0.017	<0.010	<0.017	<0.033	<0.033	<0.033	<0.033	<0.017	<0.017	<0.017	<0.170	<0.033	<0.200
	S54-57 (Composite)	11/29/2016	0 - 6	<0.017	<0.017	<0.017	<0.005	<0.0085	<0.0085	<0.017	<0.0085	<0.005	<0.0085	<0.017	<0.017	<0.017	<0.017	<0.0085	<0.0085	<0.0085	<0.085	<0.017	<0.100
Structure 22 and 23	S66-67 (Composite)	11/29/2016	0 - 6	<0.0033	<0.0033	<0.0033	<0.001	<0.0017	<0.0017	<0.0033	<0.0017	<0.001	<0.0017	<0.0033	<0.0033	<0.0033	<0.0033	<0.0017	<0.0017	<0.0017	<0.017	<0.0033	<0.020
	S68-69 (Composite)	11/29/2016	0 - 6	<0.017	<0.017	<0.017	<0.005	<0.0085	<0.0085	<0.017	<0.0085	<0.005	<0.0085	<0.017	<0.017	<0.017	<0.017	<0.0085	<0.0085	<0.0085	<0.085	<0.017	<0.100
Structure 27/28/29/30	S74-77 (Composite)	11/29/2016	0 - 6	<0.017	<0.017	<0.017	<0.005	<0.0085	<0.0085	<0.017	<0.0085	<0.005	<0.0085	<0.017	<0.017	<0.017	<0.017	<0.0085	<0.0085	<0.0085	<0.085	<0.017	<0.100
Structure 31/32	S78	11/29/2016	0 - 6	<0.017	<0.017	<0.017	<0.005	<0.0085	<0.0085	0.018	<0.0085	<0.005	<0.0085	<0.017	<0.017	<0.017	<0.017	<0.0085	<0.0085	<0.0085	<0.085	<0.017	<0.100
Structure 31/32	S79-82 (Composite)	11/29/2016	0 - 6	<0.017	<0.017	<0.017	<0.005	<0.0085	<0.0085	<0.017	<0.0085	<0.005	<0.0085	<0.017	<0.017	<0.017	<0.017	<0.0085	<0.0085	<0.0085	<0.085	<0.017	<0.100
Structure 33	S83	11/29/2016	0 - 6	<0.017	<0.017	<0.017	<0.005	<0.0085	<0.0085	<0.017	<0.0085	<0.005	<0.0085	<0.017	<0.017	<0.017	<0.017	<0.0085	<0.0085	<0.0085	<0.085	<0.017	<0.100
Structure 34	S84-86 (Composite)	11/29/2016	0 - 6	<0.017	<0.017	<0.017	<0.005	<0.0085	<0.0085	<0.017	<0.0085	<0.005	<0.0085	<0.017	<0.017	<0.017	<0.017	<0.0085	<0.0085	<0.0085	<0.085	<0.017	<0.100
	S87-89 (Composite)	11/29/2016	0 - 6	<0.017	<0.017	<0.017	<0.005	<0.0085	<0.0085	<0.017	<0.0085	<0.005	<0.0085	<0.017	<0.017	<0.017	<0.017	<0.0085	<0.0085	<0.0085	<0.085	<0.017	<0.100

Notes:
 < less than laboratory reporting limit(s)

Table 2
Summary of Soil Analytical Results - Lead
368 402 PETALUMA BOULEVARD NORTH PROPERTY
WKA No. 10410.04

	Sample ID	Sample Date	Sample Depth (in)	Lead
Concentrations reported in milligrams per kilogram (mg/kg)				
Structure 1	S1	11/29/2016	0 - 6	18
	S2	11/29/2016	0 - 6	220
	S3	11/29/2016	0 - 6	60
	S4	11/29/2016	0 - 6	340
	S5	11/29/2016	0 - 6	250
	S6	11/29/2016	0 - 6	410
	S7	11/29/2016	0 - 6	420
Structure 2	S8	11/29/2016	0 - 6	410
Structure 3	S9	11/29/2016	0 - 6	9.5
	S10	11/29/2016	0 - 6	38
	S11	11/29/2016	0 - 6	13
Structure 4 and 5	S12	11/29/2016	0 - 6	57
	S13	11/29/2016	0 - 6	61
	S14	11/29/2016	0 - 6	37
	S15	11/29/2016	0 - 6	33
	S16	11/29/2016	0 - 6	32
Structure 6, 7, 8, and 9	S17	11/29/2016	0 - 6	41
	S18	11/29/2016	0 - 6	35
	S19	11/29/2016	0 - 6	34
	S20	11/29/2016	0 - 6	78
	S21	11/29/2016	0 - 6	31
	S22	11/29/2016	0 - 6	48
	S23	11/29/2016	0 - 6	37
Structure 11	S24	11/29/2016	0 - 6	48
	S25	11/29/2016	0 - 6	99
	S26	11/29/2016	0 - 6	39
	S27	11/29/2016	0 - 6	<2.5
	S28	11/29/2016	0 - 6	7.6
	S29	11/29/2016	0 - 6	<2.5
Structure 12	S30	11/29/2016	0 - 6	<2.5
	S35	11/29/2016	0 - 6	3.7
Structure 13, 14, 15, and 16	S36	11/29/2016	0 - 6	84
	S37	11/29/2016	0 - 6	87
	S38	11/29/2016	0 - 6	14
	S39	11/29/2016	0 - 6	58
	S40	11/29/2016	0 - 6	17
	S41	11/29/2016	0 - 6	28
	S42	11/29/2016	0 - 6	70
	S43	11/29/2016	0 - 6	23
Structure 17	S44	11/29/2016	0 - 6	22
	S45	11/29/2016	0 - 6	61
	S46	11/29/2016	0 - 6	190
	S47	11/29/2016	0 - 6	24
	S48	11/29/2016	0 - 6	140
	S49	11/29/2016	0 - 6	66
Structure 18	S50	11/29/2016	0 - 6	300
	S51	11/29/2016	0 - 6	84
	S52	11/29/2016	0 - 6	160
	S53	11/29/2016	0 - 6	140
	S54	11/29/2016	0 - 6	2.5
	S55	11/29/2016	0 - 6	26
	S56	11/29/2016	0 - 6	51
	S57	11/29/2016	0 - 6	3
Structur 20 and 21	S62	11/29/2016	0 - 6	<2.5
	S63	11/29/2016	0 - 6	3.3
	S64	11/29/2016	0 - 6	43
	S65	11/29/2016	0 - 6	62
Structure 22 and 23	S66	11/29/2016	0 - 6	2.7
	S67	11/29/2016	0 - 6	5.4
	S68	11/29/2016	0 - 6	21
	S69	11/29/2016	0 - 6	19
Structure 24, 25, and 26	S70	11/29/2016	0 - 6	29
	S71	11/29/2016	0 - 6	41
	S72	11/29/2016	0 - 6	33
	S73	11/29/2016	0 - 6	29
Structure 27/28/29/30	S74	11/29/2016	0 - 6	130
	S75	11/29/2016	0 - 6	50
	S76	11/29/2016	0 - 6	170
	S77	11/29/2016	0 - 6	52
Structure 31/32	S78	11/29/2016	0 - 6	150
	S79	11/29/2016	0 - 6	16
	S80	11/29/2016	0 - 6	40
	S81	11/29/2016	0 - 6	16
	S82	11/29/2016	0 - 6	61
Structure 33	S83	11/29/2016	0 - 6	120
	S84	11/29/2016	0 - 6	11
Structure 34	S85	11/29/2016	0 - 6	10
	S86	11/29/2016	0 - 6	44
	S87	11/29/2016	0 - 6	22
	S88	11/29/2016	0 - 6	12
	S89	11/29/2016	0 - 6	7.9

Notes:
< less than laboratory reporting limit(s)
-- Not Analyzed

Table 3
 Summary of Soil Analytical Results - CAM 17 Metals and Waste Oil Metals
368 402 PETALUMA BOULEVARD NORTH PROPERTY
 WKA No. 10410.04

	Sample ID	Sample Date	Sample Depth (in)	EPA Methods 6010B/6020/7000/7471A																
				Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Concentrations reported in milligrams per kilogram (mg/kg)																				
Structure 11	S31	11/29/2016	0 - 6	<2.5	<1.0	51	<1.0	<1.0	17	2.1	2.9	3.4	<0.10	<1.0	12	<2.5	<1.0	<1.0	23	18
	S32	11/29/2016	0 - 6	<2.5	<1.0	36	<1.0	<1.0	16	2.4	2.8	3.5	<0.10	<1.0	11	<2.5	<1.0	<1.0	31	16
	S33	11/29/2016	0 - 6	<2.5	<1.0	41	<1.0	<1.0	12	2.1	2.8	<2.5	<0.10	<1.0	9.5	<2.5	<1.0	<1.0	22	15
	S34	11/29/2016	0 - 6	<2.5	<1.0	42	<1.0	<1.0	15	2.1	3.7	28	<0.10	<1.0	12	<2.5	<1.0	<1.0	27	31
Structure 19	S58	11/29/2016	0 - 6	<2.5	<1.0	50	<1.0	<1.0	16	3.2	3.6	2.8	<0.10	<1.0	16	<2.5	<1.0	<1.0	21	14
	S59	11/29/2016	0 - 6	<2.5	<1.0	39	<1.0	<1.0	18	2.4	3.5	2.5	<0.10	<1.0	11	<2.5	<1.0	<1.0	26	17
	S60	11/29/2016	0 - 6	<2.5	<1.0	42	<1.0	<1.0	21	2.3	3.1	3.3	<0.10	<1.0	10	<2.5	<1.0	<1.0	25	14
	S61	11/29/2016	0 - 6	<2.5	<1.0	110	<1.0	<1.0	19	4.5	3.8	2.7	<0.10	<1.0	19	<2.5	<1.0	<1.0	32	16
Railroad Tracks	S90-93 (Composite)	11/29/2016	0 - 6	<2.5	3.2	75	<1.0	<1.0	31	8.4	20	52	<0.10	<1.0	35	<2.5	<1.0	<1.0	37	120
Structure 34	S84-86 (Composite)	11/29/2016	0 - 6	--	--	--	--	<1.0	<5.0	--	--	<10	--	--	<10	--	--	--	--	15
	S87-89 (Composite)	11/29/2016	0 - 6	--	--	--	--	<1.0	<5.0	--	--	<10	--	--	<10	--	--	--	--	14

Notes:
 < less than laboratory reporting limit(s)
 -- Not Analyzed

Table 4
 Summary of Soil Analytical Results - Petroleum Hydrocarbon Products
368 402 PETALUMA BOULEVARD NORTH PROPERTY
 WKA No. 10410.04

	Sample ID	Sample Date	Sample Depth (in)	EPA 8015M		EPA 8260B/M					
				TPH as Diesel	TPH as Motor Oil	TPH as Gasoline	Benzene	Toluene	Ethylbenzene	Xylenes, Total	MTBE
Concentrations reported in milligrams per kilogram (mg/kg)											
Structure 3	S9-12 (Composite)	11/29/2016	0 - 6	<10	300	<0.20	--	--	--	--	--
Structure 34	S84-86 (Composite)	11/29/2016	0 - 6	<1.0	4.7	<0.20	<0.005	<0.005	<0.005	<0.010	<0.005
	S87-89 (Composite)	11/29/2016	0 - 6	<1.0	8.2	<0.20	<0.005	<0.005	<0.005	<0.010	<0.005
Railroad Tracks	S90-93 (Composite)	11/29/2016	0 - 6	<1.0	<1.0	--	--	--	--	--	--
Removed 500-Gallon UST	S94	11/29/2016	30 - 36	--	--	--	--	--	--	--	<0.005

Notes:
 < less than reporting limit(s)

Table 5
 Summary of Soil Analytical Results - Chlorinated Herbicides
368 402 PETALUMA BOULEVARD NORTH PROPERTY
 WKA No. 10410.04

	Sample ID	Sample Date	Sample Depth (in)	EPA Method 8151A										
				2,4,5-T	2,4,5-TP (Silvex)	2,4-D	2,4-DB	Dalapon	Dicamba	Dichloroprop	Dinoseb	MCPA	MCPP	Pentachlorophenol
Concentrations reported in milligrams per kilogram (mg/kg)														
Railroad Tracks	S90-93 (Composite)	11/29/2016	0 - 6	<0.050	<0.050	<0.25	<0.50	<5.0	<0.050	<0.50	<0.050	<10	<10	<0.050

Notes:
 < less than reporting limit(s)

Table 6
 Summary of Soil Analytical Results - Polynuclear Aromatic Hydrocarbons
368 402 PETALUMA BOULEVARD NORTH PROPERTY
 WKA No. 10410.04

	Sample ID	Sample Date	Sample Depth (in)	EPA Method 8310															
				Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
				Concentrations reported in milligrams per kilogram (mg/kg)															
Structure 11	S31	11/29/2016	0 - 6	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	
	S32	11/29/2016	0 - 6	<0.017	<0.017	<0.017	0.026	0.019	<0.017	<0.017	<0.017	0.034	<0.017	0.056	<0.017	<0.017	<0.017	0.086	0.064
	S33	11/29/2016	0 - 6	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	0.018	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	0.019
	S34	11/29/2016	0 - 6	<0.085	<0.085	<0.085	0.27	0.27	<0.085	<0.085	0.22	0.43	<0.085	0.84	<0.085	0.18	<0.085	0.83	0.87
Structure 19	S58	11/29/2016	0 - 6	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	0.024
	S59	11/29/2016	0 - 6	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017
	S60	11/29/2016	0 - 6	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017
	S61	11/29/2016	0 - 6	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017
Railroad Tracks	S90-93 (Composite)	11/29/2016	0 - 6	<0.085	<0.085	<0.085	<0.085	<0.085	<0.085	<0.085	0.028	<0.085	0.06	<0.085	<0.085	<0.085	<0.085	0.06	0.16

Notes:
 < less than reporting limit(s)

APPENDIX A

Laboratory Analytical Reports
and
Chain-of-Custody Documentation



CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

December 07, 2016

CLS Work Order #: CZK1152
COC #:

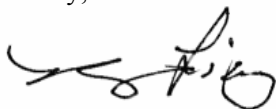
Matthew Taylor
Wallace Kuhl & Associates- West Sacramento
3050 Industrial Boulevard
West Sacramento, CA 95691

**Project Name: 368 &402 Petaluma Boulevard
North**

Enclosed are the results of analyses for samples received by the laboratory on 11/30/16 13:49. 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 DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

Wallace Kuhl & Associates- West Sacramento 3050 Industrial Boulevard West Sacramento, CA 95691	Project: 368 &402 Petaluma Boulevard North Project Number: 10410.04 Project Manager: Matthew Taylor	CLS Work Order #: CZK1152 COC #:
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~~CZK1152-1~~
CZK1152-1

3050 Industrial Blvd. West Sacramento, CA 95691 Tel: 916.372.1434 Fax: 916.372.2885		Lab No. <u>CLS</u> Page <u>1</u> of <u>40</u>							
Project Contact (Hardcopy or PDF To): Matt Taylor Company / Address: <small>see above</small> Phone No.: <small>see above</small> Fax No.: <small>see above</small> Project Number: <u>10410.04</u> P.O. No.: Project Name: 368 & 402 Petaluma Boulevard North		Chain-of-Custody Record and Analysis Request California EDF Report? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Recommended but not mandatory to complete this section: Sampling Company Log Code: Global ID: EDF Deliverable To (Email Address): Sampler Signature:							
Sample Designation	Date	Time	4 oz. jar 8 oz. jar	Container	Preservative NONE HCl ICE	Matrix WATER SOIL	DCP's (EPA 8081A) Total Lead (EPA 8010B) TPH _{total} and TPH ₄₀ (EPA 8015) TPH ₁₆ (EPA 8020B) BTEX (EPA 8210B) MTBE (EPA 8210B) Five Invertebrate Metals (EPA 8000/7000/50 Cu-Mn 17 Metals (EPA 8000/7000 series) Chlorinated Hydrocarbons (EPA 8151A)	TAT <input type="radio"/> 12Hr <input type="radio"/> 24 Hr <input type="radio"/> 48Hr <input type="radio"/> 72 hr <input type="radio"/> 1 WK <input type="radio"/> 2WK	For Lab Use Only
	S1 } Comp. 11-29-16 731 1 S2 } S1-S3 735 1 S3 } 740 1 S4 } Comp. 740 1 S5 } S4-S7 75045 1 S6 } 75050 1 S7 } 75055 1 S8 } 800 1 S9 } 805 1 1 S10 } Comp. 810 1 1 S11 } S9-S12 815 1 1 S12 } 820 1 1	C D D D C D D D D D D C C D D D D							
Relinquished by: 	Date: <u>11-24-16</u> Time: <u>1300</u>	Received by: 	Remarks: EMAIL to npi@wallace-kuhl.com and mtaylor@wallace-kuhl.com C - Composite Analysis						
Relinquished by: 	Date: <u>11-30-16</u> Time:	Received by Laboratory: 	Bill to: <u>11-30-16 1349 (0.9)</u>						

CALIFORNIA LABORATORY SERVICES

Wallace Kuhl & Associates- West Sacramento 3050 Industrial Boulevard West Sacramento, CA 95691	Project: 368 & 402 Petaluma Boulevard North Project Number: 10410.04 Project Manager: Matthew Taylor	CLS Work Order #: CZK1152 COC #:
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~~CZK1152-2~~
CZK1152-2

Wallace Kuhl & Associates 3050 Industrial Blvd. West Sacramento, CA 95691 Tel: 916.372.1434 Fax: 916.372.2888		Lab No. _____ Page <u>2</u> of <u>10</u>				
Project Contact (Hardcopy or PDF To): Matt Taylor Company / Address: see above Phone No.: see above Fax No.: see above Project Number: 10410.04 P.O. No.: Project Name: 368 & 402 Petaluma Boulevard North Project Address:		California EDF Report? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Recommended but not mandatory to complete this section: Sampling Company Log Code: Global ID: EDF Deliverable To (Email Address): Sampler Signature:				
		Chain-of-Custody Record and Analysis Request				
		Analysis Request				
		TAT <input type="radio"/> 12Hr <input type="radio"/> 24 Hr <input type="radio"/> 48Hr <input type="radio"/> 72 Hr <input type="radio"/> 1 WK <input type="radio"/> 2WK <input type="radio"/>				
		For Lab Use Only				
Sample Designation	Date Time	Sampling 4 oz Jar 8 oz Jar	Container Preservative NONE HCl ICE Matrix WATER SOIL	OCFA (EPA 8081A) Total Lead (EPA 821-00) TPH and TPHd (EPA 8015) TPHd (EPA 8260B) BTEX (EPA 8260D) MTBE (EPA 8260B) Pentachloro Q1 Metabolite (EPA 8000/7000 series) CAM 17 Metals (EPA 8000/7000 series) Chlorinated Hydrocarbons (EPA 8161A)	<input type="checkbox"/> D <input type="checkbox"/> D <input type="checkbox"/> D <input type="checkbox"/> D <input checked="" type="checkbox"/> C D <input type="checkbox"/> D <input type="checkbox"/> D <input type="checkbox"/> D <input type="checkbox"/> D <input type="checkbox"/> D <input type="checkbox"/> D	
S13	11-29-16 825	1			D	
S14	830	1			D	
S15	835	1			D	
S16	840	1			D	
S17) Comp.	845	1			C D	
S18) S17-S19	850	1			D	
S19)	855	1			D	
S20)	910	1			C D	
S21) Comp.	905	1			D	
S22) S20-S22	910	1			D	
Relinquished by: 		Date: 11-29-16 Time: 1305	Received by: 			Remarks: EMAIL to npj@wallace-kuhl.com and mtaylor@wallace-kuhl.com C - Composite Analysis
Relinquished by: 		Date: 11-30-16	Received by:			
Relinquished by:		Date:	Received by Laboratory: 			
			Bill to: 11-30-16 1349 (OS)			

CALIFORNIA LABORATORY SERVICES

Wallace Kuhl & Associates- West Sacramento 3050 Industrial Boulevard West Sacramento, CA 95691	Project: 368 & 402 Petaluma Boulevard North Project Number: 10410.04 Project Manager: Matthew Taylor	CLS Work Order #: CZK1152 COC #:
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~~CZK1152~~
CZK1152-3

3050 Industrial Blvd. West Sacramento, CA 95691 Tel: 916.372.1434 Fax: 916.372.2365		Lab No. _____ Page <u>3</u> of <u>10</u>					
Project Contact (Hardcopy or PDF To): Matt Taylor California EDF Report? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Chain-of-Custody Record and Analysis Request					
Company Address: see above Phone No.: see above Fax No.: see above Project Number: 10410.04 P.O. No.: Project Name: 368 & 402 Petaluma Boulevard North Project Address:		Recommended but not mandatory to complete this section: Sampling Company Log Code: Global ID: EDF Deliverable To (Email Address): Sampler Signature:					
Sample Designation	Sampling	Container	Preservative	Matrix	COCPs (EPA 805-A) Total Lead (EPA 6010E) TP-mo and TPHd (EPA 8015) TPmg (EPA 8260B) BTEX (EPA 8260B) MTBE (EPA 8260D) Fluor/ Wzoo Oil Metals (EPA 8000/7000 s.e.) CAA 17 Metals (EPA 8000/7000 s.e.s) Chlorinated Hydrocarbons (EPA 8151A) PAHs (EPA 8310)	TAT 12 Hr 24 Hr 48 Hr 72 Hr 1 WK 2WK	For Lab Use Only
	Date	Time	4 oz. Jar 8 oz. Jar	NONE HCl ICE WATER SOIL			
S23	11-27-16	9:15	1		C	D	
S24 } Comp.		9:20	1			D	
S25 } S23-S26		9:25	1			D	
S26 }		9:30	1			D	
S27 }		9:35	1		C	D	
S28 } Comp.		9:40	1			D	
S29 } S27-S30		9:45	1			D	
S30 }		9:50	1			D	
S31		9:55	1 1				D D
S32		9:00	1 1				D D
S33		1:05	1 1				D D
S34	0	1:10	1 1				D D
Relinquished by:		Date	Time	Received by:		Remarks:	
		11-27-16	13:05			EMAIL to npi@wallace-kuhl.com and mtaylor@wallace-kuhl.com C - Composite Analysis	
Relinquished by:		Date	Time	Received by:			
		11-30-16					
Relinquished by:		Date	Time	Received by Laboratory:		Bill to:	
						11-30-16 1349 (0.9)	

CALIFORNIA LABORATORY SERVICES

Wallace Kuhl & Associates- West Sacramento 3050 Industrial Boulevard West Sacramento, CA 95691	Project: 368 &402 Petaluma Boulevard North Project Number: 10410.04 Project Manager: Matthew Taylor	CLS Work Order #: CZK1152 COC #:
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~~CZK1152-4~~
CZK1152-4

3050 Industrial Blvd. West Sacramento, CA 95691 Tel: 916.372.1434 Fax: 916.372.2888		Lab No. _____	Page <u>4</u> of <u>10</u>																																																																																																																																																																																																																																																							
Project Contact (Hardcopy or PDF To): Matt Taylor		California EDF Report? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																																																																																																																																																																																																																								
Company / Address: see above		Recommended but not mandatory to complete this section: Sampling Company Log Code:																																																																																																																																																																																																																																																								
Phone No.: see above	Fax No.: see above	Global ID:																																																																																																																																																																																																																																																								
Project Number: 10410.04	P.O. No.:	EDF Deliverable To (Email Address):																																																																																																																																																																																																																																																								
Project Name: 368 & 402 Petaluma Boulevard North		Sampler Signature:																																																																																																																																																																																																																																																								
Project Address:		Chain-of-Custody Record and Analysis Request																																																																																																																																																																																																																																																								
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Sample Designation</th> <th colspan="2">Sampling</th> <th colspan="2">Container</th> <th colspan="3">Preservative</th> <th colspan="2">Matrix</th> <th rowspan="2">DCEP (EPA 8081A)</th> <th rowspan="2">Total Lead (EPA 8210B)</th> <th rowspan="2">TPHmg and TPHd (EPA 8015)</th> <th rowspan="2">TPHg (EPA 8260B)</th> <th rowspan="2">BTEX (EPA 8260D)</th> <th rowspan="2">MTBE (EPA 8260E)</th> <th rowspan="2">Five Waste Oil Metals (EPA 6000/7000 set)</th> <th rowspan="2">CML 17 Metals (EPA 6000/7000 series)</th> <th rowspan="2">Chlorinated Hydrocarbons (EPA 8161A)</th> <th rowspan="2">PAHs (EPA 8310)</th> <th rowspan="2">TAT</th> <th rowspan="2">For Lab Use Only</th> </tr> <tr> <th>Date</th> <th>Time</th> <th>4 oz.</th> <th>8 oz.</th> <th>NONE</th> <th>HCl</th> <th>ICE</th> <th>WATER</th> <th>SOIL</th> </tr> </thead> <tbody> <tr><td>S35</td><td>11-27-16</td><td>1615</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>D</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>12Hr</td><td></td></tr> <tr><td>S36</td><td></td><td>1020</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>D</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>24 Hr</td><td></td></tr> <tr><td>S37</td><td></td><td>1025</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>D</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>48Hr</td><td></td></tr> <tr><td>S38</td><td></td><td>1030</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>D</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>72 Hr</td><td></td></tr> <tr><td>S39</td><td></td><td>1035</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>D</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1 WK</td><td></td></tr> <tr><td>S40</td><td></td><td>1040</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>D</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2WK</td><td></td></tr> <tr><td>S41</td><td></td><td>1045</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>D</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>S42</td><td></td><td>1050</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>D</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>S43</td><td></td><td>1055</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>D</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		Sample Designation	Sampling		Container		Preservative			Matrix		DCEP (EPA 8081A)	Total Lead (EPA 8210B)	TPHmg and TPHd (EPA 8015)	TPHg (EPA 8260B)	BTEX (EPA 8260D)	MTBE (EPA 8260E)	Five Waste Oil Metals (EPA 6000/7000 set)	CML 17 Metals (EPA 6000/7000 series)	Chlorinated Hydrocarbons (EPA 8161A)	PAHs (EPA 8310)	TAT	For Lab Use Only	Date	Time	4 oz.	8 oz.	NONE	HCl	ICE	WATER	SOIL	S35	11-27-16	1615	1								D										12Hr		S36		1020	1								D											24 Hr		S37		1025	1								D											48Hr		S38		1030	1								D											72 Hr		S39		1035	1								D											1 WK		S40		1040	1								D											2WK		S41		1045	1								D													S42		1050	1								D													S43		1055	1								D													Retinquished by: Date: 11-27-16 Time: 1305 Received by:		Remarks: EMAIL to npi@wallace-kuhl.com and mtaylor@wallace-kuhl.com C - Composite Analysis
			Sample Designation	Sampling		Container		Preservative			Matrix													DCEP (EPA 8081A)	Total Lead (EPA 8210B)	TPHmg and TPHd (EPA 8015)	TPHg (EPA 8260B)	BTEX (EPA 8260D)	MTBE (EPA 8260E)	Five Waste Oil Metals (EPA 6000/7000 set)	CML 17 Metals (EPA 6000/7000 series)	Chlorinated Hydrocarbons (EPA 8161A)	PAHs (EPA 8310)	TAT	For Lab Use Only																																																																																																																																																																																																																							
Date	Time	4 oz.		8 oz.	NONE	HCl	ICE	WATER	SOIL																																																																																																																																																																																																																																																	
S35	11-27-16	1615	1								D										12Hr																																																																																																																																																																																																																																					
S36		1020	1								D											24 Hr																																																																																																																																																																																																																																				
S37		1025	1								D											48Hr																																																																																																																																																																																																																																				
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S41		1045	1								D																																																																																																																																																																																																																																															
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Relinquished by: Date: 11-30-16 Time:		Received by:																																																																																																																																																																																																																																																								
Relinquished by:		Received by Laboratory:																																																																																																																																																																																																																																																								
		Bill to: 11-30-16 1349 (09)																																																																																																																																																																																																																																																								

CALIFORNIA LABORATORY SERVICES

Wallace Kuhl & Associates- West Sacramento 3050 Industrial Boulevard West Sacramento, CA 95691	Project: 368 &402 Petaluma Boulevard North Project Number: 10410.04 Project Manager: Matthew Taylor	CLS Work Order #: CZK1152 COC #:
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CZK1152

	3050 Industrial Blvd. West Sacramento, CA 95691 Tel: 916.372.1434 Fax: 916.372.2888	Lab No. _____	Page <u>5</u> of <u>10</u>												
Project Contact (Hardcopy or PDF To): Matt Taylor		California EDF Report? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No													
Company Address: see above		Recommended but not mandatory to complete this section: Sampling Company Log Code:													
Phone No.: see above	Fax No.: see above	Global ID:													
Project Number:	P.O. No.:	EDF Deliverable To (Email Address):													
Project Name: 368 & 402 Petaluma Boulevard North		Sampler Signature:													
Project Address:		Chain-of-Custody Record and Analysis Request													
Sample Designation		Analysis Request										TAT	For Lab Use Only		
		Date	Time	4 oz. Jar 8 oz. Jar	NONE HCl ICE	WATER SOIL	OCPs (EPA 8015A) Total Lead (EPA 8015C)	TPHs and TPHd (EPA 8015) TPHs (EPA 8260B)	DTEX (EPA 8260D) MTBE (EPA 8260B)	Five Trace OI Metals (EPA 80007000) and CMA 17 Metals (EPA 80007000 series)	Chlorinated Hydrocarbons (EPA 8151A)	PAHs (EPA 8310)		12Hr 24 Hr 48Hr 72 Hr 1 WK 2WK	
S44 } Comp.		11-21-16	1100				C								
S45 } 544-546			1105				D								
S46 }			1110				D								
S47 } Comp.			1115				C								
S48 } 547-549			1120				D								
S49 }			1125				D								
Relinquished by: 		Date 12-1-16	Time	Received by:		Remarks:									
Relinquished by:		Date	Time	Received by:		EMAIL to npi@wallace-kuhl.com and mtaylor@wallace-kuhl.com C - Composite Analysis									
Relinquished by:		Date 12-1-16	Time 09K	Received by Laboratory: 		Bill to:									

CALIFORNIA LABORATORY SERVICES

Wallace Kuhl & Associates- West Sacramento 3050 Industrial Boulevard West Sacramento, CA 95691	Project: 368 & 402 Petaluma Boulevard North Project Number: 10410.04 Project Manager: Matthew Taylor	CLS Work Order #: CZK1152 COC #:
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CZK1152-6

3050 Industrial Blvd. West Sacramento, CA 95691 Tel: 916.372.1434 Fax: 916.372.2365		Lab No. _____	Page <u>6</u> of <u>10</u>											
Project Contact (Hardcopy or PDF To): Matt Taylor		California EDF Report? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No												
Company / Address: see above		Recommended but not mandatory to complete this section: Sampling Company Log Code:												
Phone No.: see above	Fax No.: see above	Global ID:												
Project Number:	P.O. No.:	EDF Deliverable To (Email Address):												
Project Name: 368 & 402 Petaluma Boulevard North		Sampler Signature:												
Project Address:		Chain-of-Custody Record and Analysis Request												
Sample Designation		Analysis Request										TAT	For Lab Use Only	
		Date	Time	4 oz jar 8 oz jar	NONE HCl ICE	WATER SOIL	OCPs (EPA 8001A) Total Lead (EPA 8210B) TPh and TPhq (EPA 8015) TFHg (EPA 8260B) BTEX (EPA 8260B) MTBE (EPA 8210B) Five Waste Oil Metals (EPA 8007/9006 use) CAMS 17 Metals (EPA 8007/9006 sorted) Chlorinated Hydrocarbons (EPA 8151a) PbAs (EPA 8310)	<input type="checkbox"/> 12 Hr <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> 1 WK <input type="checkbox"/> 2WK						
S44			1											
S45			1											
S48			1											
S49			1											
S50	11-29-16	1120	1											
S51	} COMP H-1	1125	1											
S52		1130	1											
S53		1133	1											
S54	} COMP H-1	1140	1											
S55		1145	1											
S56		1150	1											
S57		1158	1											
Relinquished by: <i>ni</i>		Date: 12-1-16	Time:	Received by:		Remarks: EMAIL to npt@wallace-kuhl.com and mtaylor@wallace-kuhl.com C - Composite Analysis								
Relinquished by:		Date:	Time:	Received by:		Bill to:								
Relinquished by:		Date: 12-1-16	Time: 0910	Received by Laboratory:		<i>[Signature]</i>								

CALIFORNIA LABORATORY SERVICES

Wallace Kuhl & Associates- West Sacramento 3050 Industrial Boulevard West Sacramento, CA 95691	Project: 368 & 402 Petaluma Boulevard North Project Number: 10410.04 Project Manager: Matthew Taylor	CLS Work Order #: CZK1152 COC #:
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CZK1152-7
~~CZK1152-6~~

3050 Industrial Blvd. West Sacramento, CA 95691 Tel: 916.372.1434 Fax: 916.372.2965		Lab No. _____	Page <u>7</u> of <u>10</u>
Project Contact (Hardcopy or PDF To): Matt Taylor		California EDF Report? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Company / Address: see above		Recommended but not mandatory to complete this section: Sampling Company Log Code:	
Phone No.: see above	Fax No.: see above	Global ID:	
Project Number: 10410.04	P.O. No.:	EDF Deliverable To (Email Address):	
Project Name: 368 & 402 Petaluma Boulevard North		Sampler Signature:	
Project Address:		Chain-of-Custody Record and Analysis Request	
		Analysis Request	
		For Lab Use Only	
		TAT <input type="radio"/> 12 Hr <input type="radio"/> 24 Hr <input type="radio"/> 48 Hr <input type="radio"/> 72 Hr <input type="radio"/> 1 WK <input type="radio"/> 2WK	
		<input type="radio"/> Total Lead (EPA 8210) <input type="radio"/> TPHm and TPm (EPA 8015) <input type="radio"/> TPHg (EPA 8160B) <input type="radio"/> BTEX (EPA 8210B) <input type="radio"/> MTBE (EPA 8260B) <input type="radio"/> Five Waste Oil Metals (EPA 8007000 sc) <input type="radio"/> CDM 17 Metals (EPA 8007000 sc)(sl) <input type="radio"/> Chlorinated Hydrocarbons (EPA 8151A) <input type="radio"/> PAHs (EPA 8310)	
		<input type="checkbox"/> DCPs (EPA 8081A) <input type="checkbox"/> WATER <input type="checkbox"/> SOIL	
		<input type="checkbox"/> NONE <input type="checkbox"/> HCl <input type="checkbox"/> ICE	
		<input type="checkbox"/> 4 oz Jar <input type="checkbox"/> 8 oz Jar	
		<input type="checkbox"/> Sampling <input type="checkbox"/> Container <input type="checkbox"/> Preservative <input type="checkbox"/> Matrix	
Sample Designation		Date Time	
S58		11-21-16 12:00	
S59		12:05	
S60		12:00	
S61		12:15	
S62		12:20	
S63		12:25	
S64		12:30	
S65		12:35	
S66 } Comp.		12:40	
S67 } S66-S67		12:45	
S68 } Comp.		12:50	
S69 } S68-S69		12:55	
Relinquished by:		Date: 11-21-16 Time: 13:05 Received by:	
Relinquished by:		Date: 11-30-16 Time: Received by:	
Relinquished by:		Date: Time: Received by Laboratory:	
		Bill to: 11-30-16 1349 (09)	
Remarks: EMAIL to npl@wallace-kuhl.com and mtaylor@wallace-kuhl.com C - Composite Analysis			

CALIFORNIA LABORATORY SERVICES

Wallace Kuhl & Associates- West Sacramento 3050 Industrial Boulevard West Sacramento, CA 95691	Project: 368 &402 Petaluma Boulevard North Project Number: 10410.04 Project Manager: Matthew Taylor	CLS Work Order #: CZK1152 COC #:
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CZK1152-8
~~CZK1152-7~~

3050 Industrial Blvd. West Sacramento, CA 95691 Tel: 916.372.1434 Fax: 916.372.2565		Lab No. _____	Page <u>8</u> of <u>10</u>
Project Contact (Hardcopy or PDF To): Matt Taylor Company / Address: _____ <small>Recommended but not mandatory to complete this section:</small> Sampling Company Log Code: _____ Phone No.: _____ Fax No.: _____ <small>see above</small> <small>see above</small> Project Number: _____ P.O. No.: _____ <small>10410.04</small> Project Name: _____ 368 & 402 Petaluma Boulevard North Project Address: _____		California EDF Report? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Chain-of-Custody Record and Analysis Request Analysis Request	
Global ID: _____ EDF Deliverable To (Email Address): _____ Sampler Signature: _____		TAT <input type="radio"/> 12 Hr <input type="radio"/> 24 Hr <input type="radio"/> 48 Hr <input type="radio"/> 72 Hr <input type="radio"/> 1 WK <input type="radio"/> 2WK For Lab Use Only	
Sample Designation	Date Time	Sampling Container Preservative Matrix	DCPs (EPA 8081A) Total Lead (EPA 8010B) TPHm and TPHs (EPA 8012) TPHg (EPA 8260B) DTEX (EPA 8260C) MTBE (EPA 8260B) Five Waste Oil Metals (EPA 8000/7000) GMM 17 Metals (EPA 8000/7000 set) Chlorinated Herbicides (EPA 8151A) PAHs (EPA 8310)
S70	11-29-16 1300	1	D
S71	1305	1	D
S72	1310	1	D
S73	1313	1	D
S74	1320	1	C D
S75 } Comp.	1325	1	D
S76 } S74-S77	1330	1	D
S77	1335	1	D
Relinquished by: <i>[Signature]</i> Date: 11-29-16 Time: 1305 Received by: <i>[Signature]</i>		Remarks: EMAIL to npl@wallace-kuhl.com and mtaylor@wallace-kuhl.com C - Composite Analysis	
Relinquished by: <i>[Signature]</i> Date: 11-30-16 Time: _____ Received by: _____		Relinquished by: _____ Date: _____ Time: _____ Received by: _____	
Relinquished by: _____ Date: _____ Time: _____ Received by: _____		Bill to: 11-30-16 1349 (09)	

CALIFORNIA LABORATORY SERVICES

Wallace Kuhl & Associates- West Sacramento 3050 Industrial Boulevard West Sacramento, CA 95691	Project: 368 & 402 Petaluma Boulevard North Project Number: 10410.04 Project Manager: Matthew Taylor	CLS Work Order #: CZK1152 COC #:
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CZK1152-9
~~CZK1152-8~~

3050 Industrial Blvd. West Sacramento, CA 95691 Tel: 916.372.1434 Fax: 916.372.2885		Lab No. _____	Page <u>9 of 10</u>																																																																																																																																																																																																																																																																																																																			
Project Contact (Hardcopy or PDF To): Mail Taylor		California EDF Report? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																																																																																																																																																																																																																																																																																				
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Phone No.: see above	Fax No.: see above	Global ID:																																																																																																																																																																																																																																																																																																																				
Project Number: 10410.04	P.O. No.:	EDF Deliverable To (Email Address):																																																																																																																																																																																																																																																																																																																				
Project Name: 368 & 402 Petaluma Boulevard North		Sampler Signature:																																																																																																																																																																																																																																																																																																																				
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<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Sample Designation</th> <th colspan="2">Sampling</th> <th colspan="2">Container</th> <th colspan="3">Preservative</th> <th colspan="2">Matrix</th> <th rowspan="2">OCPS (EPA 808-A)</th> <th rowspan="2">Total Lead (EPA 6010)</th> <th rowspan="2">TPH and TPH₂ (EPA 8015)</th> <th rowspan="2">TPH₃ (EPA 808-B)</th> <th rowspan="2">DTEX (EPA 830-B)</th> <th rowspan="2">MTBE (EPA 830-B)</th> <th rowspan="2">Five Waste Oil Metals (EPA 600/700 series)</th> <th rowspan="2">C.M. 17 Metals (EPA 600/700 series)</th> <th rowspan="2">Chromated Herbicides (EPA 816-A)</th> <th rowspan="2">PAHs (EPA 8310)</th> <th rowspan="2">TAT</th> </tr> <tr> <th>Date</th> <th>Time</th> <th>4 oz./lit.</th> <th>8 oz./lit.</th> <th>NONE</th> <th>HCl</th> <th>ICE</th> <th>WATER</th> <th>SOIL</th> </tr> </thead> <tbody> <tr><td>S78</td><td>11-23-16</td><td>1340</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td>D</td><td>D</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>S79</td><td></td><td>1345</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td>C</td><td>D</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>S80 } Comp.</td><td></td><td>1350</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td>D</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>S81 } S79-S82</td><td></td><td>1355</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td>D</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>S82</td><td></td><td>1400</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td>D</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>S83</td><td></td><td>1405</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td>D</td><td>D</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>S84</td><td></td><td>1410</td><td>1</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td>C</td><td>D</td><td>C</td><td>C</td><td>C</td><td>C</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>S85 } Comp.</td><td></td><td>1415</td><td>1</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td>D</td><td>D</td><td>C</td><td>C</td><td>C</td><td>C</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>S86 } S84-S86</td><td></td><td>1420</td><td>1</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td>D</td><td>D</td><td>C</td><td>C</td><td>C</td><td>C</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>S87</td><td></td><td>1425</td><td>1</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td>C</td><td>D</td><td>C</td><td>C</td><td>C</td><td>C</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>S88 } Comp.</td><td></td><td>1430</td><td>1</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td>D</td><td>D</td><td>C</td><td>C</td><td>C</td><td>C</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>S89 } S87-S89</td><td></td><td>1435</td><td>1</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td>D</td><td>D</td><td>C</td><td>C</td><td>C</td><td>C</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		Sample Designation	Sampling		Container		Preservative			Matrix		OCPS (EPA 808-A)	Total Lead (EPA 6010)	TPH and TPH ₂ (EPA 8015)	TPH ₃ (EPA 808-B)	DTEX (EPA 830-B)	MTBE (EPA 830-B)	Five Waste Oil Metals (EPA 600/700 series)	C.M. 17 Metals (EPA 600/700 series)	Chromated Herbicides (EPA 816-A)	PAHs (EPA 8310)	TAT	Date	Time	4 oz./lit.	8 oz./lit.	NONE	HCl	ICE	WATER	SOIL	S78	11-23-16	1340	1							D	D											S79		1345	1							C	D											S80 } Comp.		1350	1							D												S81 } S79-S82		1355	1							D												S82		1400	1							D												S83		1405	1							D	D											S84		1410	1	1						C	D	C	C	C	C							S85 } Comp.		1415	1	1						D	D	C	C	C	C							S86 } S84-S86		1420	1	1						D	D	C	C	C	C							S87		1425	1	1						C	D	C	C	C	C							S88 } Comp.		1430	1	1						D	D	C	C	C	C							S89 } S87-S89		1435	1	1						D	D	C	C	C	C							<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td> Relinquished by: </td> <td> Date: 11-24-16 </td> <td> Time: 1305 </td> <td> Received by: </td> <td rowspan="3"> Remarks: EMAIL to npi@wallace-kuhl.com and mtaylor@wallace-kuhl.com C - Composite Analysis </td> </tr> <tr> <td> Relinquished by: </td> <td> Date: 11-30-16 </td> <td> Time: </td> <td> Received by: </td> </tr> <tr> <td> Relinquished by: </td> <td> Date: </td> <td> Time: </td> <td> Received by Laboratory: </td> </tr> </table>		Relinquished by: 	Date: 11-24-16	Time: 1305	Received by: 	Remarks: EMAIL to npi@wallace-kuhl.com and mtaylor@wallace-kuhl.com C - Composite Analysis	Relinquished by: 	Date: 11-30-16	Time:	Received by:	Relinquished by:	Date:	Time:	Received by Laboratory:
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CALIFORNIA LABORATORY SERVICES

Wallace Kuhl & Associates- West Sacramento 3050 Industrial Boulevard West Sacramento, CA 95691	Project: 368 &402 Petaluma Boulevard North Project Number: 10410.04 Project Manager: Matthew Taylor	CLS Work Order #: CZK1152 COC #:
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CZK1152-10

3050 Industrial Blvd. West Sacramento, CA 95691 Tel: 916.372.1434 Fax: 916.372.2365		Lab No. _____	Page <u>10</u> of <u>10</u>														
Project Contact (Hardcopy or PDF To): Matt Taylor		California EDF Report? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No															
Company Address: see above		Recommended but not mandatory to complete this section: Sampling Company Log Code:															
Phone No.:	Fax No.:	Global ID:															
Project Number:	P.O. No.:	EDF Deliverable To (Email Address):															
Project Name: 368 & 402 Petaluma Boulevard North		Sampler Signature:															
Project Address:		Chain-of-Custody Record and Analysis Request															
Sample Designation Date Time 4 oz. Jar 8 oz. Jar NONE HCl ICE WATER SOIL		Analysis Request										TAT	For Lab Use Only				
		Total Lead (EPA 8010B) C	TPH and TPH2 (EPA 8015) C	TPH4 (EPA 8260B) C	BTEX (EPA 8060) D	MTBE (EPA 8240B)	Five Waste Oil Metals (EPA 8000/7000 set)	CVM 17 Metals (EPA 8000/7000 set)	Organohalogen Herbicides (EPA 8151A)	PAHs (EPA 8310)	12 Hr <input type="radio"/>	24 Hr <input type="radio"/>		48 Hr <input type="radio"/>	72 Hr <input type="radio"/>	1 WK <input type="radio"/>	2WK <input type="radio"/>
S90	11-27-16	1440	1														
S91		1445	1														
S92	590-593	1450	1														
S93		1452	1														
S94			1														
Relinquished by: <i>[Signature]</i>		Date:	Time:	Received by: <i>[Signature]</i>		Remarks: EMAIL to npi@wallace-kuhl.com and mtaylor@wallace-kuhl.com C - Composite Analysis											
Relinquished by: <i>[Signature]</i>		Date:	Time:	Received by:													
Relinquished by:		Date:	Time:	Received by Laboratory: <i>[Signature]</i>		Bill to: 11-30-16 1349 (0.9)											

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CALIFORNIA LABORATORY SERVICES

Wallace Kuhl & Associates- West Sacramento 3050 Industrial Boulevard West Sacramento, CA 95691	Project: 368 &402 Petaluma Boulevard North Project Number: 10410.04 Project Manager: Matthew Taylor	CLS Work Order #: CZK1152 COC #:
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CLS LABS SAMPLE RECEIVING EXCEPTION REPORTS

CLS Labs Job # CZK1152-PINK.

Problem discovered by: CP. Date: 11/30/16.

Nature of problem

RECEIVED SAMPLE "S#6" & "S#7" AND
THERE ARE NO ANALYSES ON CHAIN OF
CUSTODY. SAMPLE "S#6" & "S#7"
ARE ON CHAIN OF CUSTODY, BUT WERE NOT
RECEIVED

Client contacted? Yes No Spoke With: NELSON PI / MATT TAYLOR.
By whom: CP Date: 11/30/16 Time: 1556 HRS

Client instructions:

PUT SAMPLE "S#6" & "S#7" ON HOLD.
NELSON WILL BRING IN SAMPLE "S#6"
& "S#7". PROCEED WITH ALL OTHER
ANALYSES.

Resolution of problem:

LOGGED IN PER MATT TAYLOR AND
NELSON PI.

H:\WillOrellana\SampleException.Doc

CALIFORNIA LABORATORY SERVICES

Wallace Kuhl & Associates- West Sacramento 3050 Industrial Boulevard West Sacramento, CA 95691	Project: 368 &402 Petaluma Boulevard North Project Number: 10410.04 Project Manager: Matthew Taylor	CLS Work Order #: CZK1152 COC #:
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CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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S31 (CZK1152-38) Soil **Sampled: 11/29/16 09:55** **Received: 11/30/16 13:49**

Antimony	ND	2.5	mg/kg	5	CZ08885	12/02/16	12/02/16	EPA 6020	
Arsenic	ND	1.0	"	"	"	"	"	"	
Barium	51	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	QC-2H
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	17	1.0	"	"	"	"	"	"	
Cobalt	2.1	1.0	"	"	"	"	"	"	
Copper	2.9	1.0	"	"	"	"	"	"	
Lead	3.4	2.5	"	"	"	"	"	"	
Mercury	ND	0.10	"	1	CZ08886	12/02/16	12/05/16	EPA 7471A	
Molybdenum	ND	1.0	"	5	CZ08885	12/02/16	12/02/16	EPA 6020	
Nickel	12	1.0	"	"	"	"	"	"	
Selenium	ND	2.5	"	"	"	"	"	"	
Silver	ND	1.0	"	"	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	"	"	
Vanadium	23	1.0	"	"	"	"	"	"	
Zinc	18	2.5	"	"	"	"	"	"	

S32 (CZK1152-39) Soil **Sampled: 11/29/16 10:00** **Received: 11/30/16 13:49**

Antimony	ND	2.5	mg/kg	5	CZ08885	12/02/16	12/02/16	EPA 6020	
Arsenic	ND	1.0	"	"	"	"	"	"	
Barium	36	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	QC-2H
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	16	1.0	"	"	"	"	"	"	
Cobalt	2.4	1.0	"	"	"	"	"	"	
Copper	2.8	1.0	"	"	"	"	"	"	
Lead	3.5	2.5	"	"	"	"	"	"	
Mercury	ND	0.10	"	1	CZ08886	12/02/16	12/05/16	EPA 7471A	
Molybdenum	ND	1.0	"	5	CZ08885	12/02/16	12/02/16	EPA 6020	
Nickel	11	1.0	"	"	"	"	"	"	

CALIFORNIA LABORATORY SERVICES

Wallace Kuhl & Associates- West Sacramento 3050 Industrial Boulevard West Sacramento, CA 95691	Project: 368 &402 Petaluma Boulevard North Project Number: 10410.04 Project Manager: Matthew Taylor	CLS Work Order #: CZK1152 COC #:
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CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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S32 (CZK1152-39) Soil Sampled: 11/29/16 10:00 Received: 11/30/16 13:49

Selenium	ND	2.5	mg/kg	5	CZ08885	"	12/02/16	EPA 6020	
Silver	ND	1.0	"	"	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	"	"	
Vanadium	31	1.0	"	"	"	"	"	"	
Zinc	16	2.5	"	"	"	"	"	"	

S33 (CZK1152-40) Soil Sampled: 11/29/16 10:05 Received: 11/30/16 13:49

Antimony	ND	2.5	mg/kg	5	CZ08885	12/02/16	12/02/16	EPA 6020	
Arsenic	ND	1.0	"	"	"	"	"	"	
Barium	41	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	QC-2H
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	12	1.0	"	"	"	"	"	"	
Cobalt	2.1	1.0	"	"	"	"	"	"	
Copper	2.8	1.0	"	"	"	"	"	"	
Lead	ND	2.5	"	"	"	"	"	"	
Mercury	ND	0.10	"	1	CZ08886	12/02/16	12/05/16	EPA 7471A	
Molybdenum	ND	1.0	"	5	CZ08885	12/02/16	12/02/16	EPA 6020	
Nickel	9.5	1.0	"	"	"	"	"	"	
Selenium	ND	2.5	"	"	"	"	"	"	
Silver	ND	1.0	"	"	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	"	"	
Vanadium	22	1.0	"	"	"	"	"	"	
Zinc	15	2.5	"	"	"	"	"	"	

CALIFORNIA LABORATORY SERVICES

Wallace Kuhl & Associates- West Sacramento 3050 Industrial Boulevard West Sacramento, CA 95691	Project: 368 &402 Petaluma Boulevard North Project Number: 10410.04 Project Manager: Matthew Taylor	CLS Work Order #: CZK1152 COC #:
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CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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S34 (CZK1152-41) Soil Sampled: 11/29/16 10:10 Received: 11/30/16 13:49

Antimony	ND	2.5	mg/kg	5	CZ08885	12/02/16	12/02/16	EPA 6020	
Arsenic	ND	1.0	"	"	"	"	"	"	
Barium	42	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	QC-2H
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	15	1.0	"	"	"	"	"	"	
Cobalt	2.1	1.0	"	"	"	"	"	"	
Copper	3.7	1.0	"	"	"	"	"	"	
Lead	28	2.5	"	"	"	"	"	"	
Mercury	ND	0.10	"	1	CZ08886	12/02/16	12/05/16	EPA 7471A	
Molybdenum	ND	1.0	"	5	CZ08885	12/02/16	12/02/16	EPA 6020	
Nickel	12	1.0	"	"	"	"	"	"	
Selenium	ND	2.5	"	"	"	"	"	"	
Silver	ND	1.0	"	"	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	"	"	
Vanadium	27	1.0	"	"	"	"	"	"	
Zinc	31	2.5	"	"	"	"	"	"	

S58 (CZK1152-69) Soil Sampled: 11/29/16 12:00 Received: 11/30/16 13:49

Antimony	ND	2.5	mg/kg	5	CZ08885	12/02/16	12/02/16	EPA 6020	
Arsenic	ND	1.0	"	"	"	"	"	"	
Barium	50	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	QC-2H
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	16	1.0	"	"	"	"	"	"	
Cobalt	3.2	1.0	"	"	"	"	"	"	
Copper	3.6	1.0	"	"	"	"	"	"	
Lead	2.8	2.5	"	"	"	"	"	"	
Mercury	ND	0.10	"	1	CZ08886	12/02/16	12/05/16	EPA 7471A	
Molybdenum	ND	1.0	"	5	CZ08885	12/02/16	12/02/16	EPA 6020	
Nickel	16	1.0	"	"	"	"	"	"	

CALIFORNIA LABORATORY SERVICES

Wallace Kuhl & Associates- West Sacramento 3050 Industrial Boulevard West Sacramento, CA 95691	Project: 368 &402 Petaluma Boulevard North Project Number: 10410.04 Project Manager: Matthew Taylor	CLS Work Order #: CZK1152 COC #:
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CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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S58 (CZK1152-69) Soil Sampled: 11/29/16 12:00 Received: 11/30/16 13:49

Selenium	ND	2.5	mg/kg	5	CZ08885	"	12/02/16	EPA 6020	
Silver	ND	1.0	"	"	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	"	"	
Vanadium	21	1.0	"	"	"	"	"	"	
Zinc	14	2.5	"	"	"	"	"	"	

S59 (CZK1152-70) Soil Sampled: 11/29/16 12:05 Received: 11/30/16 13:49

Antimony	ND	2.5	mg/kg	5	CZ08885	12/02/16	12/02/16	EPA 6020	
Arsenic	ND	1.0	"	"	"	"	"	"	
Barium	39	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	QC-2H
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	18	1.0	"	"	"	"	"	"	
Cobalt	2.4	1.0	"	"	"	"	"	"	
Copper	3.5	1.0	"	"	"	"	"	"	
Lead	2.5	2.5	"	"	"	"	"	"	
Mercury	ND	0.10	"	1	CZ08886	12/02/16	12/05/16	EPA 7471A	
Molybdenum	ND	1.0	"	5	CZ08885	12/02/16	12/02/16	EPA 6020	
Nickel	11	1.0	"	"	"	"	"	"	
Selenium	ND	2.5	"	"	"	"	"	"	
Silver	ND	1.0	"	"	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	"	"	
Vanadium	26	1.0	"	"	"	"	"	"	
Zinc	17	2.5	"	"	"	"	"	"	

CALIFORNIA LABORATORY SERVICES

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CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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S60 (CZK1152-71) Soil Sampled: 11/29/16 12:10 Received: 11/30/16 13:49

Antimony	ND	2.5	mg/kg	5	CZ08885	12/02/16	12/02/16	EPA 6020	
Arsenic	ND	1.0	"	"	"	"	"	"	
Barium	42	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	QC-2H
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	21	1.0	"	"	"	"	"	"	
Cobalt	2.3	1.0	"	"	"	"	"	"	
Copper	3.1	1.0	"	"	"	"	"	"	
Lead	3.3	2.5	"	"	"	"	"	"	
Mercury	ND	0.10	"	1	CZ08886	12/02/16	12/05/16	EPA 7471A	
Molybdenum	ND	1.0	"	5	CZ08885	12/02/16	12/02/16	EPA 6020	
Nickel	10	1.0	"	"	"	"	"	"	
Selenium	ND	2.5	"	"	"	"	"	"	
Silver	ND	1.0	"	"	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	"	"	
Vanadium	25	1.0	"	"	"	"	"	"	
Zinc	14	2.5	"	"	"	"	"	"	

S61 (CZK1152-72) Soil Sampled: 11/29/16 12:15 Received: 11/30/16 13:49

Antimony	ND	2.5	mg/kg	5	CZ08885	12/02/16	12/02/16	EPA 6020	
Arsenic	ND	1.0	"	"	"	"	"	"	
Barium	110	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	QC-2H
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	19	1.0	"	"	"	"	"	"	
Cobalt	4.5	1.0	"	"	"	"	"	"	
Copper	3.8	1.0	"	"	"	"	"	"	
Lead	2.7	2.5	"	"	"	"	"	"	
Mercury	ND	0.10	"	1	CZ08886	12/02/16	12/05/16	EPA 7471A	
Molybdenum	ND	1.0	"	5	CZ08885	12/02/16	12/02/16	EPA 6020	
Nickel	19	1.0	"	"	"	"	"	"	

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CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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S61 (CZK1152-72) Soil Sampled: 11/29/16 12:15 Received: 11/30/16 13:49

Selenium	ND	2.5	mg/kg	5	CZ08885	"	12/02/16	EPA 6020	
Silver	ND	1.0	"	"	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	"	"	
Vanadium	32	1.0	"	"	"	"	"	"	
Zinc	16	2.5	"	"	"	"	"	"	

S90-93 (Composite) (CZK1152-AL) Soil Sampled: 11/29/16 14:55 Received: 11/30/16 13:49

Antimony	ND	2.5	mg/kg	5	CZ08885	12/02/16	12/02/16	EPA 6020	
Arsenic	3.2	1.0	"	"	"	"	"	"	
Barium	75	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	QC-2H
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	31	1.0	"	"	"	"	"	"	
Cobalt	8.4	1.0	"	"	"	"	"	"	
Copper	20	1.0	"	"	"	"	"	"	
Lead	52	2.5	"	"	"	"	"	"	
Mercury	ND	0.10	"	1	CZ08886	12/02/16	12/05/16	EPA 7471A	
Molybdenum	ND	1.0	"	5	CZ08885	12/02/16	12/02/16	EPA 6020	
Nickel	35	1.0	"	"	"	"	"	"	
Selenium	ND	2.5	"	"	"	"	"	"	
Silver	ND	1.0	"	"	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	"	"	
Vanadium	37	1.0	"	"	"	"	"	"	
Zinc	120	2.5	"	"	"	"	"	"	

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Chlorinated Herbicides by EPA Method 8151A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S90-93 (Composite) (CZK1152-AL) Soil Sampled: 11/29/16 14:55 Received: 11/30/16 13:49 QRL-8									
2,4,5-T	ND	0.050	mg/kg	5	CZ08868	12/02/16	12/06/16	EPA 8151A	
2,4,5-TP (Silvex)	ND	0.050	"	"	"	"	"	"	
2,4-D (2,4-Dichlorophenoxyacetic acid)	ND	0.25	"	"	"	"	"	"	
2,4-DB	ND	0.50	"	"	"	"	"	"	
Dalapon	ND	5.0	"	"	"	"	"	"	
Dicamba	ND	0.050	"	"	"	"	"	"	
Dichloroprop	ND	0.50	"	"	"	"	"	"	
Dinoseb	ND	0.050	"	"	"	"	"	"	
MCPA	ND	10	"	"	"	"	"	"	
MCPP	ND	10	"	"	"	"	"	"	
Pentachlorophenol	ND	0.050	"	"	"	"	"	"	
<i>Surrogate: 2,4-DCAA</i>		54 %		50-150	"	"	"	"	

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Extractable Petroleum Hydrocarbons by EPA Method 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S89-12 (Composite) (CZK1152-15) Soil Sampled: 11/29/16 08:20 Received: 11/30/16 13:49									
Diesel	ND	10	mg/kg	10	CZ08836	12/01/16	12/02/16	EPA 8015M	
Motor Oil	300	10	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i> 83 % 65-135 " " " "									
S84-86 (Composite) (CZK1152-AC) Soil Sampled: 11/29/16 14:20 Received: 11/30/16 13:49									
Diesel	ND	1.0	mg/kg	1	CZ08836	12/01/16	12/02/16	EPA 8015M	
Motor Oil	4.7	1.0	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i> 72 % 65-135 " " " "									
S87-89 (Composite) (CZK1152-AG) Soil Sampled: 11/29/16 14:35 Received: 11/30/16 13:49									
Diesel	ND	1.0	mg/kg	1	CZ08836	12/01/16	12/02/16	EPA 8015M	
Motor Oil	8.2	1.0	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i> 87 % 65-135 " " " "									
S90-93 (Composite) (CZK1152-AL) Soil Sampled: 11/29/16 14:55 Received: 11/30/16 13:49									
Diesel	ND	1.0	mg/kg	1	CZ08836	12/01/16	12/02/16	EPA 8015M	
Motor Oil	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i> 70 % 65-135 " " " "									

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Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S1 (CZK1152-01) Soil Sampled: 11/29/16 07:30 Received: 11/30/16 13:49									
Lead	18	2.5	mg/kg	5	CZ08850	12/01/16	12/01/16	EPA 6010B	ICP/MS
S2 (CZK1152-02) Soil Sampled: 11/29/16 07:35 Received: 11/30/16 13:49									
Lead	220	2.5	mg/kg	5	CZ08850	12/01/16	12/01/16	EPA 6010B	ICP/MS
S3 (CZK1152-03) Soil Sampled: 11/29/16 08:45 Received: 11/30/16 13:49									
Lead	60	2.5	mg/kg	5	CZ08850	12/01/16	12/01/16	EPA 6010B	ICP/MS
S4 (CZK1152-05) Soil Sampled: 11/29/16 07:40 Received: 11/30/16 13:49									
Lead	340	2.5	mg/kg	5	CZ08850	12/01/16	12/01/16	EPA 6010B	ICP/MS
S5 (CZK1152-06) Soil Sampled: 11/29/16 07:45 Received: 11/30/16 13:49									
Lead	250	2.5	mg/kg	5	CZ08850	12/01/16	12/01/16	EPA 6010B	ICP/MS
S6 (CZK1152-07) Soil Sampled: 11/29/16 07:50 Received: 11/30/16 13:49									
Lead	410	2.5	mg/kg	5	CZ08850	12/01/16	12/01/16	EPA 6010B	ICP/MS
S7 (CZK1152-08) Soil Sampled: 11/29/16 07:55 Received: 11/30/16 13:49									
Lead	420	2.5	mg/kg	5	CZ08850	12/01/16	12/01/16	EPA 6010B	ICP/MS
S8 (CZK1152-10) Soil Sampled: 11/29/16 08:00 Received: 11/30/16 13:49									
Lead	410	2.5	mg/kg	5	CZ08850	12/01/16	12/01/16	EPA 6010B	ICP/MS
S9 (CZK1152-11) Soil Sampled: 11/29/16 08:05 Received: 11/30/16 13:49									
Lead	9.5	2.5	mg/kg	5	CZ08850	12/01/16	12/01/16	EPA 6010B	ICP/MS

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Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S10 (CZK1152-12) Soil Sampled: 11/29/16 08:10 Received: 11/30/16 13:49									
Lead	38	2.5	mg/kg	5	CZ08850	12/01/16	12/01/16	EPA 6010B	ICP/MS
S11 (CZK1152-13) Soil Sampled: 11/29/16 08:15 Received: 11/30/16 13:49									
Lead	13	2.5	mg/kg	5	CZ08850	12/01/16	12/01/16	EPA 6010B	ICP/MS
S12 (CZK1152-14) Soil Sampled: 11/29/16 08:20 Received: 11/30/16 13:49									
Lead	57	2.5	mg/kg	5	CZ08850	12/01/16	12/01/16	EPA 6010B	ICP/MS
S13 (CZK1152-16) Soil Sampled: 11/29/16 08:25 Received: 11/30/16 13:49									
Lead	61	2.5	mg/kg	5	CZ08850	12/01/16	12/01/16	EPA 6010B	ICP/MS
S14 (CZK1152-17) Soil Sampled: 11/29/16 08:30 Received: 11/30/16 13:49									
Lead	37	2.5	mg/kg	5	CZ08850	12/01/16	12/01/16	EPA 6010B	ICP/MS
S15 (CZK1152-18) Soil Sampled: 11/29/16 08:35 Received: 11/30/16 13:49									
Lead	33	2.5	mg/kg	5	CZ08850	12/01/16	12/01/16	EPA 6010B	ICP/MS
S16 (CZK1152-19) Soil Sampled: 11/29/16 08:40 Received: 11/30/16 13:49									
Lead	32	2.5	mg/kg	5	CZ08850	12/01/16	12/01/16	EPA 6010B	ICP/MS
S17 (CZK1152-20) Soil Sampled: 11/29/16 08:45 Received: 11/30/16 13:49									
Lead	41	2.5	mg/kg	5	CZ08850	12/01/16	12/01/16	EPA 6010B	ICP/MS
S18 (CZK1152-21) Soil Sampled: 11/29/16 08:50 Received: 11/30/16 13:49									
Lead	35	2.5	mg/kg	5	CZ08850	12/01/16	12/01/16	EPA 6010B	ICP/MS

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Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S19 (CZK1152-22) Soil Sampled: 11/29/16 08:55 Received: 11/30/16 13:49									
Lead	34	2.5	mg/kg	5	CZ08850	12/01/16	12/01/16	EPA 6010B	ICP/MS
S20 (CZK1152-24) Soil Sampled: 11/29/16 09:00 Received: 11/30/16 13:49									
Lead	78	2.5	mg/kg	5	CZ08850	12/01/16	12/01/16	EPA 6010B	ICP/MS
S21 (CZK1152-25) Soil Sampled: 11/29/16 09:05 Received: 11/30/16 13:49									
Lead	31	2.5	mg/kg	5	CZ08851	12/01/16	12/01/16	EPA 6010B	ICP/MS
S22 (CZK1152-26) Soil Sampled: 11/29/16 09:10 Received: 11/30/16 13:49									
Lead	48	2.5	mg/kg	5	CZ08851	12/01/16	12/01/16	EPA 6010B	ICP/MS
S23 (CZK1152-28) Soil Sampled: 11/29/16 09:15 Received: 11/30/16 13:49									
Lead	37	2.5	mg/kg	5	CZ08851	12/01/16	12/01/16	EPA 6010B	ICP/MS
S24 (CZK1152-29) Soil Sampled: 11/29/16 09:20 Received: 11/30/16 13:49									
Lead	48	2.5	mg/kg	5	CZ08851	12/01/16	12/01/16	EPA 6010B	ICP/MS
S25 (CZK1152-30) Soil Sampled: 11/29/16 09:25 Received: 11/30/16 13:49									
Lead	99	2.5	mg/kg	5	CZ08851	12/01/16	12/01/16	EPA 6010B	ICP/MS
S26 (CZK1152-31) Soil Sampled: 11/29/16 09:30 Received: 11/30/16 13:49									
Lead	39	2.5	mg/kg	5	CZ08851	12/01/16	12/01/16	EPA 6010B	ICP/MS
S27 (CZK1152-33) Soil Sampled: 11/29/16 09:35 Received: 11/30/16 13:49									
Lead	ND	2.5	mg/kg	5	CZ08851	12/01/16	12/01/16	EPA 6010B	ICP/MS

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Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S28 (CZK1152-34) Soil Sampled: 11/29/16 09:40 Received: 11/30/16 13:49									
Lead	7.6	2.5	mg/kg	5	CZ08851	12/01/16	12/01/16	EPA 6010B	ICP/MS
S29 (CZK1152-35) Soil Sampled: 11/29/16 09:45 Received: 11/30/16 13:49									
Lead	ND	2.5	mg/kg	5	CZ08851	12/01/16	12/01/16	EPA 6010B	ICP/MS
S30 (CZK1152-36) Soil Sampled: 11/29/16 09:50 Received: 11/30/16 13:49									
Lead	ND	2.5	mg/kg	5	CZ08851	12/01/16	12/01/16	EPA 6010B	ICP/MS
S35 (CZK1152-42) Soil Sampled: 11/29/16 10:15 Received: 11/30/16 13:49									
Lead	3.7	2.5	mg/kg	5	CZ08851	12/01/16	12/01/16	EPA 6010B	ICP/MS
S36 (CZK1152-43) Soil Sampled: 11/29/16 10:20 Received: 11/30/16 13:49									
Lead	84	2.5	mg/kg	5	CZ08851	12/01/16	12/01/16	EPA 6010B	ICP/MS
S37 (CZK1152-44) Soil Sampled: 11/29/16 10:25 Received: 11/30/16 13:49									
Lead	87	2.5	mg/kg	5	CZ08851	12/01/16	12/01/16	EPA 6010B	ICP/MS
S38 (CZK1152-45) Soil Sampled: 11/29/16 10:30 Received: 11/30/16 13:49									
Lead	14	2.5	mg/kg	5	CZ08851	12/01/16	12/01/16	EPA 6010B	ICP/MS
S39 (CZK1152-46) Soil Sampled: 11/29/16 10:35 Received: 11/30/16 13:49									
Lead	58	2.5	mg/kg	5	CZ08851	12/01/16	12/01/16	EPA 6010B	ICP/MS
S40 (CZK1152-47) Soil Sampled: 11/29/16 10:40 Received: 11/30/16 13:49									
Lead	17	2.5	mg/kg	5	CZ08851	12/01/16	12/01/16	EPA 6010B	ICP/MS

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Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S41 (CZK1152-48) Soil Sampled: 11/29/16 10:45 Received: 11/30/16 13:49									
Lead	28	2.5	mg/kg	5	CZ08851	12/01/16	12/01/16	EPA 6010B	ICP/MS
S42 (CZK1152-49) Soil Sampled: 11/29/16 10:50 Received: 11/30/16 13:49									
Lead	70	2.5	mg/kg	5	CZ08851	12/01/16	12/01/16	EPA 6010B	ICP/MS
S43 (CZK1152-50) Soil Sampled: 11/29/16 10:55 Received: 11/30/16 13:49									
Lead	23	2.5	mg/kg	5	CZ08851	12/01/16	12/01/16	EPA 6010B	ICP/MS
S44 (CZK1152-51) Soil Sampled: 11/29/16 11:00 Received: 11/30/16 13:49									
Lead	22	2.5	mg/kg	5	CZ08851	12/01/16	12/01/16	EPA 6010B	ICP/MS
S45 (CZK1152-52) Soil Sampled: 11/29/16 11:05 Received: 11/30/16 13:49									
Lead	61	2.5	mg/kg	5	CZ08867	12/02/16	12/02/16	EPA 6010B	ICP/MS
S46 (CZK1152-53) Soil Sampled: 11/29/16 11:10 Received: 11/30/16 13:49									
Lead	190	2.5	mg/kg	5	CZ08867	12/02/16	12/02/16	EPA 6010B	ICP/MS
S47 (CZK1152-55) Soil Sampled: 11/29/16 11:15 Received: 11/30/16 13:49									
Lead	24	2.5	mg/kg	5	CZ08867	12/02/16	12/02/16	EPA 6010B	ICP/MS
S48 (CZK1152-56) Soil Sampled: 11/29/16 11:20 Received: 11/30/16 13:49									
Lead	140	2.5	mg/kg	5	CZ08867	12/02/16	12/02/16	EPA 6010B	ICP/MS
S49 (CZK1152-57) Soil Sampled: 11/29/16 11:25 Received: 11/30/16 13:49									
Lead	66	2.5	mg/kg	5	CZ08867	12/02/16	12/02/16	EPA 6010B	ICP/MS

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Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S50 (CZK1152-59) Soil Sampled: 11/29/16 11:20 Received: 11/30/16 13:49									
Lead	300	2.5	mg/kg	5	CZ08867	12/02/16	12/02/16	EPA 6010B	ICP/MS
S51 (CZK1152-60) Soil Sampled: 11/29/16 11:25 Received: 11/30/16 13:49									
Lead	84	2.5	mg/kg	5	CZ08867	12/02/16	12/02/16	EPA 6010B	ICP/MS
S52 (CZK1152-61) Soil Sampled: 11/29/16 11:30 Received: 11/30/16 13:49									
Lead	160	2.5	mg/kg	5	CZ08867	12/02/16	12/02/16	EPA 6010B	ICP/MS
S53 (CZK1152-62) Soil Sampled: 11/29/16 11:35 Received: 11/30/16 13:49									
Lead	140	2.5	mg/kg	5	CZ08867	12/02/16	12/02/16	EPA 6010B	ICP/MS
S54 (CZK1152-64) Soil Sampled: 11/29/16 11:40 Received: 11/30/16 13:49									
Lead	2.5	2.5	mg/kg	5	CZ08867	12/02/16	12/02/16	EPA 6010B	ICP/MS
S55 (CZK1152-65) Soil Sampled: 11/29/16 11:45 Received: 11/30/16 13:49									
Lead	26	2.5	mg/kg	5	CZ08867	12/02/16	12/02/16	EPA 6010B	ICP/MS
S56 (CZK1152-66) Soil Sampled: 11/29/16 11:50 Received: 11/30/16 13:49									
Lead	51	2.5	mg/kg	5	CZ08898	12/05/16	12/05/16	EPA 6010B	ICP/MS
S57 (CZK1152-67) Soil Sampled: 11/29/16 11:53 Received: 11/30/16 13:49									
Lead	3.0	2.5	mg/kg	5	CZ08898	12/05/16	12/05/16	EPA 6010B	ICP/MS
S62 (CZK1152-73) Soil Sampled: 11/29/16 12:20 Received: 11/30/16 13:49									
Lead	ND	2.5	mg/kg	5	CZ08867	12/02/16	12/02/16	EPA 6010B	ICP/MS

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Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S63 (CZK1152-74) Soil Sampled: 11/29/16 12:25 Received: 11/30/16 13:49									
Lead	3.3	2.5	mg/kg	5	CZ08867	12/02/16	12/02/16	EPA 6010B	ICP/MS
S64 (CZK1152-75) Soil Sampled: 11/29/16 12:30 Received: 11/30/16 13:49									
Lead	43	2.5	mg/kg	5	CZ08867	12/02/16	12/02/16	EPA 6010B	ICP/MS
S65 (CZK1152-76) Soil Sampled: 11/29/16 12:35 Received: 11/30/16 13:49									
Lead	62	2.5	mg/kg	5	CZ08867	12/02/16	12/02/16	EPA 6010B	ICP/MS
S66 (CZK1152-77) Soil Sampled: 11/29/16 12:40 Received: 11/30/16 13:49									
Lead	2.7	2.5	mg/kg	5	CZ08867	12/02/16	12/02/16	EPA 6010B	ICP/MS
S67 (CZK1152-78) Soil Sampled: 11/29/16 12:45 Received: 11/30/16 13:49									
Lead	5.4	2.5	mg/kg	5	CZ08867	12/02/16	12/02/16	EPA 6010B	ICP/MS
S68 (CZK1152-80) Soil Sampled: 11/29/16 12:50 Received: 11/30/16 13:49									
Lead	21	2.5	mg/kg	5	CZ08867	12/02/16	12/02/16	EPA 6010B	ICP/MS
S69 (CZK1152-81) Soil Sampled: 11/29/16 12:55 Received: 11/30/16 13:49									
Lead	19	2.5	mg/kg	5	CZ08867	12/02/16	12/02/16	EPA 6010B	ICP/MS
S70 (CZK1152-83) Soil Sampled: 11/29/16 13:00 Received: 11/30/16 13:49									
Lead	29	2.5	mg/kg	5	CZ08867	12/02/16	12/02/16	EPA 6010B	ICP/MS
S71 (CZK1152-84) Soil Sampled: 11/29/16 13:05 Received: 11/30/16 13:49									
Lead	41	2.5	mg/kg	5	CZ08867	12/02/16	12/02/16	EPA 6010B	ICP/MS

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Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S72 (CZK1152-85) Soil Sampled: 11/29/16 13:10 Received: 11/30/16 13:49									
Lead	33	2.5	mg/kg	5	CZ08869	12/02/16	12/02/16	EPA 6010B	ICP/MS
S73 (CZK1152-86) Soil Sampled: 11/29/16 13:15 Received: 11/30/16 13:49									
Lead	29	2.5	mg/kg	5	CZ08869	12/02/16	12/02/16	EPA 6010B	ICP/MS
S74 (CZK1152-87) Soil Sampled: 11/29/16 13:20 Received: 11/30/16 13:49									
Lead	130	2.5	mg/kg	5	CZ08869	12/02/16	12/02/16	EPA 6010B	ICP/MS
S75 (CZK1152-88) Soil Sampled: 11/29/16 13:25 Received: 11/30/16 13:49									
Lead	50	2.5	mg/kg	5	CZ08869	12/02/16	12/02/16	EPA 6010B	ICP/MS
S76 (CZK1152-89) Soil Sampled: 11/29/16 13:30 Received: 11/30/16 13:49									
Lead	170	2.5	mg/kg	5	CZ08869	12/02/16	12/02/16	EPA 6010B	ICP/MS
S77 (CZK1152-90) Soil Sampled: 11/29/16 13:35 Received: 11/30/16 13:49									
Lead	52	2.5	mg/kg	5	CZ08869	12/02/16	12/02/16	EPA 6010B	ICP/MS
S78 (CZK1152-92) Soil Sampled: 11/29/16 13:40 Received: 11/30/16 13:49									
Lead	150	2.5	mg/kg	5	CZ08869	12/02/16	12/02/16	EPA 6010B	ICP/MS
S79 (CZK1152-93) Soil Sampled: 11/29/16 13:45 Received: 11/30/16 13:49									
Lead	16	2.5	mg/kg	5	CZ08869	12/02/16	12/02/16	EPA 6010B	ICP/MS
S80 (CZK1152-94) Soil Sampled: 11/29/16 13:50 Received: 11/30/16 13:49									
Lead	40	2.5	mg/kg	5	CZ08869	12/02/16	12/02/16	EPA 6010B	ICP/MS

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Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S81 (CZK1152-95) Soil Sampled: 11/29/16 13:55 Received: 11/30/16 13:49									
Lead	16	2.5	mg/kg	5	CZ08869	12/02/16	12/02/16	EPA 6010B	ICP/MS
S82 (CZK1152-96) Soil Sampled: 11/29/16 14:00 Received: 11/30/16 13:49									
Lead	61	2.5	mg/kg	5	CZ08869	12/02/16	12/02/16	EPA 6010B	ICP/MS
S83 (CZK1152-98) Soil Sampled: 11/29/16 14:05 Received: 11/30/16 13:49									
Lead	120	2.5	mg/kg	5	CZ08869	12/02/16	12/02/16	EPA 6010B	ICP/MS
S84 (CZK1152-99) Soil Sampled: 11/29/16 14:10 Received: 11/30/16 13:49									
Lead	11	2.5	mg/kg	5	CZ08869	12/02/16	12/02/16	EPA 6010B	ICP/MS
S85 (CZK1152-AA) Soil Sampled: 11/29/16 14:15 Received: 11/30/16 13:49									
Lead	10	2.5	mg/kg	5	CZ08869	12/02/16	12/02/16	EPA 6010B	ICP/MS
S86 (CZK1152-AB) Soil Sampled: 11/29/16 14:20 Received: 11/30/16 13:49									
Lead	44	2.5	mg/kg	5	CZ08869	12/02/16	12/02/16	EPA 6010B	ICP/MS
S84-86 (Composite) (CZK1152-AC) Soil Sampled: 11/29/16 14:20 Received: 11/30/16 13:49									
Cadmium	ND	1.0	mg/kg	1	CZ08885	12/02/16	12/02/16	EPA 6010B	
Chromium	ND	5.0	"	"	"	"	"	"	
Lead	ND	10	"	"	"	"	"	"	
Nickel	ND	10	"	"	"	"	"	"	
Zinc	15	5.0	"	"	"	"	"	"	
S87 (CZK1152-AD) Soil Sampled: 11/29/16 14:25 Received: 11/30/16 13:49									
Lead	22	2.5	mg/kg	5	CZ08869	12/02/16	12/02/16	EPA 6010B	ICP/MS

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Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S88 (CZK1152-AE) Soil Sampled: 11/29/16 14:30 Received: 11/30/16 13:49									
Lead	12	2.5	mg/kg	5	CZ08869	12/02/16	12/02/16	EPA 6010B	ICP/MS
S89 (CZK1152-AF) Soil Sampled: 11/29/16 14:35 Received: 11/30/16 13:49									
Lead	7.9	2.5	mg/kg	5	CZ08869	12/02/16	12/02/16	EPA 6010B	ICP/MS
S87-89 (Composite) (CZK1152-AG) Soil Sampled: 11/29/16 14:35 Received: 11/30/16 13:49									
Cadmium	ND	1.0	mg/kg	1	CZ08885	12/02/16	12/02/16	EPA 6010B	
Chromium	ND	5.0	"	"	"	"	"	"	
Lead	ND	10	"	"	"	"	"	"	
Nickel	ND	10	"	"	"	"	"	"	
Zinc	14	5.0	"	"	"	"	"	"	

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Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S1-3 (Composite) (CZK1152-04) Soil Sampled: 11/29/16 08:45 Received: 11/30/16 13:49									
4,4'-DDD	ND	33	µg/kg	10	CZ08859	12/01/16	12/06/16	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	"	"	"	"	"	"	
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

<i>Surrogate: Decachlorobiphenyl</i>	108 %	52-141	"	"	"	"
<i>Surrogate: Tetrachloro-meta-xylene</i>	78 %	46-139	"	"	"	"

S4-7 (Composite) (CZK1152-09) Soil Sampled: 11/29/16 07:55 Received: 11/30/16 13:49 **QRL-8**

4,4'-DDD	ND	33	µg/kg	10	CZ08859	12/01/16	12/06/16	EPA 8081A	
4,4'-DDE	ND	33	"	"	"	"	"	"	
4,4'-DDT	110	33	"	"	"	"	"	"	
Aldrin	ND	10	"	"	"	"	"	"	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	ND	17	"	"	"	"	"	"	

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Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S4-7 (Composite) (CZK1152-09) Soil Sampled: 11/29/16 07:55 Received: 11/30/16 13:49 QRL-8									
Chlordane-technical	ND	33	µg/kg	10	CZ08859	"	12/06/16	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	"	"	"	"	"	"	

<i>Surrogate: Decachlorobiphenyl</i>	257 %	52-141	"	"	"	"	"	"	<i>QS-4</i>
<i>Surrogate: Tetrachloro-meta-xylene</i>	72 %	46-139	"	"	"	"	"	"	

S17-19 (Composite) (CZK1152-23) Soil Sampled: 11/29/16 08:55 Received: 11/30/16 13:49 QRL-8									
4,4'-DDD	ND	17	µg/kg	5	CZ08859	12/01/16	12/06/16	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
S17-19 (Composite) (CZK1152-23) Soil Sampled: 11/29/16 08:55 Received: 11/30/16 13:49 QRL-8									
Endrin	ND	17	µg/kg	5	CZ08859	"	12/06/16	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	"	"	"	"	"	"	

Surrogate: Decachlorobiphenyl 90 % 52-141 " " " "

Surrogate: Tetrachloro-meta-xylene 85 % 46-139 " " " "

S20-22 (Composite) (CZK1152-27) Soil Sampled: 11/29/16 09:10 Received: 11/30/16 13:49 QRL-8									
4,4'-DDD	ND	17	µg/kg	5	CZ08859	12/01/16	12/06/16	EPA 8081A	
4,4'-DDE	ND	17	"	"	"	"	"	"	
4,4'-DDT	19	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	"	"	"	"	"	"	

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Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S20-22 (Composite) (CZK1152-27) Soil Sampled: 11/29/16 09:10 Received: 11/30/16 13:49									QRL-8
Mirex	ND	17	µg/kg	5	CZ08859	"	12/06/16	EPA 8081A	
Toxaphene	ND	100	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		94 %	52-141		"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		82 %	46-139		"	"	"	"	
S23-26 (Composite) (CZK1152-32) Soil Sampled: 11/29/16 09:30 Received: 11/30/16 13:49									QRL-8
4,4'-DDD	ND	33	µg/kg	10	CZ08859	12/01/16	12/06/16	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	"	"	"	"	"	"	
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	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		116 %	52-141		"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		75 %	46-139		"	"	"	"	

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Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S27-30 (Composite) (CZK1152-37) Soil Sampled: 11/29/16 09:50 Received: 11/30/16 13:49									
4,4'-DDD	ND	3.3	µg/kg	1	CZ08859	12/01/16	12/06/16	EPA 8081A	
4,4'-DDE	ND	3.3	"	"	"	"	"	"	
4,4'-DDT	ND	3.3	"	"	"	"	"	"	
Aldrin	ND	1.0	"	"	"	"	"	"	
alpha-BHC	ND	1.7	"	"	"	"	"	"	
beta-BHC	ND	1.7	"	"	"	"	"	"	
Chlordane-technical	ND	3.3	"	"	"	"	"	"	
delta-BHC	ND	1.7	"	"	"	"	"	"	
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	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.7	"	"	"	"	"	"	
Heptachlor	ND	1.7	"	"	"	"	"	"	
Heptachlor epoxide	ND	1.7	"	"	"	"	"	"	
Methoxychlor	ND	17	"	"	"	"	"	"	
Mirex	ND	3.3	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Decachlorobiphenyl	93 %	52-141	"	"	"	"	"	"
Surrogate: Tetrachloro-meta-xylene	81 %	46-139	"	"	"	"	"	"

S44-46 Composite (CZK1152-54) Soil Sampled: 11/29/16 11:10 Received: 11/30/16 13:49 **QRL-8**

4,4'-DDD	ND	33	µg/kg	10	CZ08859	12/01/16	12/06/16	EPA 8081A	
4,4'-DDE	ND	33	"	"	"	"	"	"	
4,4'-DDT	ND	33	"	"	"	"	"	"	
Aldrin	ND	10	"	"	"	"	"	"	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	ND	17	"	"	"	"	"	"	

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Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S44-46 Composite (CZK1152-54) Soil Sampled: 11/29/16 11:10 Received: 11/30/16 13:49									QRL-8
Chlordane-technical	ND	33	µg/kg	10	CZ08859	"	12/06/16	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	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		92 %	52-141	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		307 %	46-139	"	"	"	"	"	QS-4
S47-49 (Composite) (CZK1152-58) Soil Sampled: 11/29/16 11:25 Received: 11/30/16 13:49									QRL-8
4,4'-DDD	ND	17	µg/kg	5	CZ08859	12/01/16	12/06/16	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
S47-49 (Composite) (CZK1152-58) Soil Sampled: 11/29/16 11:25 Received: 11/30/16 13:49 QRL-8									
Endrin	ND	17	µg/kg	5	CZ08859	"	12/06/16	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	"	"	"	"	"	"	

Surrogate: Decachlorobiphenyl

80 %

52-141

"

"

"

"

Surrogate: Tetrachloro-meta-xylene

79 %

46-139

"

"

"

"

S50-53 (Composite) (CZK1152-63) Soil Sampled: 11/29/16 11:35 Received: 11/30/16 13:49 QRL-8									
4,4'-DDD	ND	33	µg/kg	10	CZ08859	12/01/16	12/06/16	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	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	

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Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S50-S53 (Composite) (CZK1152-63) Soil Sampled: 11/29/16 11:35 Received: 11/30/16 13:49									QRL-8
Mirex	ND	33	µg/kg	10	CZ08859	"	12/06/16	EPA 8081A	
Toxaphene	ND	200	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		122 %		52-141	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		78 %		46-139	"	"	"	"	
S54-S57 (Composite) (CZK1152-68) Soil Sampled: 11/29/16 11:55 Received: 11/30/16 13:49									QRL-8
4,4'-DDD	ND	17	µg/kg	5	CZ08859	12/01/16	12/06/16	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>		103 %		52-141	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		83 %		46-139	"	"	"	"	

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Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S66-67 (Composite) (CZK1152-79) Soil Sampled: 11/29/16 12:45 Received: 11/30/16 13:49									
4,4'-DDD	ND	3.3	µg/kg	1	CZ08859	12/01/16	12/06/16	EPA 8081A	
4,4'-DDE	ND	3.3	"	"	"	"	"	"	
4,4'-DDT	ND	3.3	"	"	"	"	"	"	
Aldrin	ND	1.0	"	"	"	"	"	"	
alpha-BHC	ND	1.7	"	"	"	"	"	"	
beta-BHC	ND	1.7	"	"	"	"	"	"	
Chlordane-technical	ND	3.3	"	"	"	"	"	"	
delta-BHC	ND	1.7	"	"	"	"	"	"	
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	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.7	"	"	"	"	"	"	
Heptachlor	ND	1.7	"	"	"	"	"	"	
Heptachlor epoxide	ND	1.7	"	"	"	"	"	"	
Methoxychlor	ND	17	"	"	"	"	"	"	
Mirex	ND	3.3	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Decachlorobiphenyl	86 %	52-141	"	"	"	"	"	"
Surrogate: Tetrachloro-meta-xylene	83 %	46-139	"	"	"	"	"	"

S68-69 (Composite) (CZK1152-82) Soil Sampled: 11/29/16 12:55 Received: 11/30/16 13:49									QRL-8
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	ND	17	µg/kg	5	CZ08859	12/01/16	12/06/16	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
S68-69 (Composite) (CZK1152-82) Soil									QRL-8
Sampled: 11/29/16 12:55 Received: 11/30/16 13:49									
Chlordane-technical	ND	17	µg/kg	5	CZ08859	"	12/06/16	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	"	"	"	"	"	"	

Surrogate: Decachlorobiphenyl		113 %		52-141	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		99 %		46-139	"	"	"	"	

S74-77 (Composite) (CZK1152-91) Soil									QRL-8
Sampled: 11/29/16 13:35 Received: 11/30/16 13:49									
4,4'-DDD	ND	17	µg/kg	5	CZ08859	12/01/16	12/06/16	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
S74-77 (Composite) (CZK1152-91) Soil Sampled: 11/29/16 13:35 Received: 11/30/16 13:49									
Endrin	ND	17	µg/kg	5	CZ08859	"	12/06/16	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

<i>Surrogate: Decachlorobiphenyl</i>	96 %	52-141	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>	81 %	46-139	"	"	"	"	"	"	

S78 (CZK1152-92) Soil Sampled: 11/29/16 13:40 Received: 11/30/16 13:49									
4,4'-DDD	ND	17	µg/kg	5	CZ08859	12/01/16	12/06/16	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	180	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
S78 (CZK1152-92) Soil Sampled: 11/29/16 13:40 Received: 11/30/16 13:49									QRL-8
Mirex	ND	17	µg/kg	5	CZ08859	"	12/06/16	EPA 8081A	
Toxaphene	ND	100	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		78 %	52-141		"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		82 %	46-139		"	"	"	"	
S79-82 (Composite) (CZK1152-97) Soil Sampled: 11/29/16 14:00 Received: 11/30/16 13:49									QRL-8
4,4'-DDD	ND	17	µg/kg	5	CZ08859	12/01/16	12/06/16	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>		87 %	52-141		"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		74 %	46-139		"	"	"	"	

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Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S83 (CZK1152-98) Soil Sampled: 11/29/16 14:05 Received: 11/30/16 13:49 QRL-8									
4,4'-DDD	ND	17	µg/kg	5	CZ08859	12/01/16	12/06/16	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>	69 %	52-141	"	"	"	"	"	"
<i>Surrogate: Tetrachloro-meta-xylene</i>	57 %	46-139	"	"	"	"	"	"

S84-86 (Composite) (CZK1152-AC) Soil Sampled: 11/29/16 14:20 Received: 11/30/16 13:49 QRL-8									
4,4'-DDD	ND	17	µg/kg	5	CZ08859	12/01/16	12/06/16	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
S84-86 (Composite) (CZK1152-AC) Soil Sampled: 11/29/16 14:20 Received: 11/30/16 13:49 QRL-8									
Chlordane-technical	ND	17	µg/kg	5	CZ08859	"	12/06/16	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	"	"	"	"	"	"	

<i>Surrogate: Decachlorobiphenyl</i>		99 %		52-141	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		87 %		46-139	"	"	"	"	

S87-89 (Composite) (CZK1152-AG) Soil Sampled: 11/29/16 14:35 Received: 11/30/16 13:49 QRL-8									
4,4'-DDD	ND	17	µg/kg	5	CZ08859	12/01/16	12/06/16	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	"	"	"	"	"	"	

CALIFORNIA LABORATORY SERVICES

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Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S87-89 (Composite) (CZK1152-AG) Soil									QRL-8
Sampled: 11/29/16 14:35 Received: 11/30/16 13:49									
Endrin	ND	17	µg/kg	5	CZ08859	"	12/06/16	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	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		95 %	52-141	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		91 %	46-139	"	"	"	"	"	

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Polynuclear Aromatic Compounds by EPA Method 8310

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S31 (CZK1152-38) Soil Sampled: 11/29/16 09:55 Received: 11/30/16 13:49									
Acenaphthene	ND	17	µg/kg	1	CZ08852	12/01/16	12/05/16	EPA 8310	
Acenaphthylene	ND	17	"	"	"	"	"	"	
Anthracene	ND	17	"	"	"	"	"	"	
Benzo (a) anthracene	ND	17	"	"	"	"	"	"	
Benzo (a) pyrene	ND	17	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	17	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	17	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	17	"	"	"	"	"	"	
Chrysene	ND	17	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	17	"	"	"	"	"	"	
Fluoranthene	ND	17	"	"	"	"	"	"	
Fluorene	ND	17	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	17	"	"	"	"	"	"	
Naphthalene	ND	17	"	"	"	"	"	"	
Phenanthrene	ND	17	"	"	"	"	"	"	
Pyrene	ND	17	"	"	"	"	"	"	

Surrogate: Terphenyl-dl4 100% 70-130 " " " "

S32 (CZK1152-39) Soil Sampled: 11/29/16 10:00 Received: 11/30/16 13:49									
Acenaphthene	ND	17	µg/kg	1	CZ08852	12/01/16	12/05/16	EPA 8310	
Acenaphthylene	ND	17	"	"	"	"	"	"	
Anthracene	ND	17	"	"	"	"	"	"	
Benzo (a) anthracene	26	17	"	"	"	"	"	"	
Benzo (a) pyrene	19	17	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	17	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	17	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	17	"	"	"	"	"	"	
Chrysene	34	17	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	17	"	"	"	"	"	"	
Fluoranthene	56	17	"	"	"	"	"	"	

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Polynuclear Aromatic Compounds by EPA Method 8310

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S32 (CZK1152-39) Soil Sampled: 11/29/16 10:00 Received: 11/30/16 13:49									
Fluorene	ND	17	µg/kg	1	CZ08852	"	12/05/16	EPA 8310	
Indeno (1,2,3-cd) pyrene	ND	17	"	"	"	"	"	"	
Naphthalene	ND	17	"	"	"	"	"	"	
Phenanthrene	86	17	"	"	"	"	"	"	
Pyrene	64	17	"	"	"	"	"	"	

Surrogate: Terphenyl-d14 129 % 70-130 " " " "

S33 (CZK1152-40) Soil Sampled: 11/29/16 10:05 Received: 11/30/16 13:49									
Acenaphthene	ND	17	µg/kg	1	CZ08852	12/01/16	12/05/16	EPA 8310	
Acenaphthylene	ND	17	"	"	"	"	"	"	
Anthracene	ND	17	"	"	"	"	"	"	
Benzo (a) anthracene	ND	17	"	"	"	"	"	"	
Benzo (a) pyrene	ND	17	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	17	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	17	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	17	"	"	"	"	"	"	
Chrysene	18	17	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	17	"	"	"	"	"	"	
Fluoranthene	ND	17	"	"	"	"	"	"	
Fluorene	ND	17	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	17	"	"	"	"	"	"	
Naphthalene	ND	17	"	"	"	"	"	"	
Phenanthrene	ND	17	"	"	"	"	"	"	
Pyrene	19	17	"	"	"	"	"	"	

Surrogate: Terphenyl-d14 102 % 70-130 " " " "

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Polynuclear Aromatic Compounds by EPA Method 8310

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S34 (CZK1152-41) Soil Sampled: 11/29/16 10:10 Received: 11/30/16 13:49									
Acenaphthene	ND	85	µg/kg	5	CZ08852	12/01/16	12/05/16	EPA 8310	
Acenaphthylene	ND	85	"	"	"	"	"	"	
Anthracene	ND	85	"	"	"	"	"	"	
Benzo (a) anthracene	270	85	"	"	"	"	"	"	
Benzo (a) pyrene	270	85	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	85	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	85	"	"	"	"	"	"	
Benzo (k) fluoranthene	220	85	"	"	"	"	"	"	
Chrysene	430	85	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	85	"	"	"	"	"	"	
Fluoranthene	840	85	"	"	"	"	"	"	
Fluorene	ND	85	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	180	85	"	"	"	"	"	"	
Naphthalene	ND	85	"	"	"	"	"	"	
Phenanthrene	830	85	"	"	"	"	"	"	
Pyrene	870	85	"	"	"	"	"	"	

Surrogate: Terphenyl-dl4 290 % 70-130 " " " " QS-4

S58 (CZK1152-69) Soil Sampled: 11/29/16 12:00 Received: 11/30/16 13:49									
Acenaphthene	ND	17	µg/kg	1	CZ08852	12/01/16	12/05/16	EPA 8310	
Acenaphthylene	ND	17	"	"	"	"	"	"	
Anthracene	ND	17	"	"	"	"	"	"	
Benzo (a) anthracene	ND	17	"	"	"	"	"	"	
Benzo (a) pyrene	ND	17	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	17	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	17	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	17	"	"	"	"	"	"	
Chrysene	ND	17	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	17	"	"	"	"	"	"	
Fluoranthene	ND	17	"	"	"	"	"	"	

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Polynuclear Aromatic Compounds by EPA Method 8310

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S58 (CZK1152-69) Soil Sampled: 11/29/16 12:00 Received: 11/30/16 13:49									
Fluorene	ND	17	µg/kg	1	CZ08852	"	12/05/16	EPA 8310	
Indeno (1,2,3-cd) pyrene	ND	17	"	"	"	"	"	"	
Naphthalene	ND	17	"	"	"	"	"	"	
Phenanthrene	ND	17	"	"	"	"	"	"	
Pyrene	24	17	"	"	"	"	"	"	

Surrogate: Terphenyl-d14 77 % 70-130 " " " "

S59 (CZK1152-70) Soil Sampled: 11/29/16 12:05 Received: 11/30/16 13:49									
Acenaphthene	ND	17	µg/kg	1	CZ08852	12/01/16	12/05/16	EPA 8310	
Acenaphthylene	ND	17	"	"	"	"	"	"	
Anthracene	ND	17	"	"	"	"	"	"	
Benzo (a) anthracene	ND	17	"	"	"	"	"	"	
Benzo (a) pyrene	ND	17	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	17	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	17	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	17	"	"	"	"	"	"	
Chrysene	ND	17	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	17	"	"	"	"	"	"	
Fluoranthene	ND	17	"	"	"	"	"	"	
Fluorene	ND	17	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	17	"	"	"	"	"	"	
Naphthalene	ND	17	"	"	"	"	"	"	
Phenanthrene	ND	17	"	"	"	"	"	"	
Pyrene	ND	17	"	"	"	"	"	"	

Surrogate: Terphenyl-d14 93 % 70-130 " " " "

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Polynuclear Aromatic Compounds by EPA Method 8310

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S60 (CZK1152-71) Soil Sampled: 11/29/16 12:10 Received: 11/30/16 13:49									
Acenaphthene	ND	17	µg/kg	1	CZ08852	12/01/16	12/05/16	EPA 8310	
Acenaphthylene	ND	17	"	"	"	"	"	"	
Anthracene	ND	17	"	"	"	"	"	"	
Benzo (a) anthracene	ND	17	"	"	"	"	"	"	
Benzo (a) pyrene	ND	17	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	17	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	17	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	17	"	"	"	"	"	"	
Chrysene	ND	17	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	17	"	"	"	"	"	"	
Fluoranthene	ND	17	"	"	"	"	"	"	
Fluorene	ND	17	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	17	"	"	"	"	"	"	
Naphthalene	ND	17	"	"	"	"	"	"	
Phenanthrene	ND	17	"	"	"	"	"	"	
Pyrene	ND	17	"	"	"	"	"	"	

Surrogate: Terphenyl-dl4 88 % 70-130 " " " "

S61 (CZK1152-72) Soil Sampled: 11/29/16 12:15 Received: 11/30/16 13:49									
Acenaphthene	ND	17	µg/kg	1	CZ08852	12/01/16	12/05/16	EPA 8310	
Acenaphthylene	ND	17	"	"	"	"	"	"	
Anthracene	ND	17	"	"	"	"	"	"	
Benzo (a) anthracene	ND	17	"	"	"	"	"	"	
Benzo (a) pyrene	ND	17	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	17	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	17	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	17	"	"	"	"	"	"	
Chrysene	ND	17	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	17	"	"	"	"	"	"	
Fluoranthene	ND	17	"	"	"	"	"	"	

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Polynuclear Aromatic Compounds by EPA Method 8310

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S61 (CZK1152-72) Soil Sampled: 11/29/16 12:15 Received: 11/30/16 13:49									
Fluorene	ND	17	µg/kg	1	CZ08852	"	12/05/16	EPA 8310	
Indeno (1,2,3-cd) pyrene	ND	17	"	"	"	"	"	"	
Naphthalene	ND	17	"	"	"	"	"	"	
Phenanthrene	ND	17	"	"	"	"	"	"	
Pyrene	ND	17	"	"	"	"	"	"	

Surrogate: Terphenyl-d14 90 % 70-130 " " " "

S90-93 (Composite) (CZK1152-AL) Soil Sampled: 11/29/16 14:55 Received: 11/30/16 13:49

Acenaphthene	ND	85	µg/kg	5	CZ08852	12/01/16	12/05/16	EPA 8310	
Acenaphthylene	ND	85	"	"	"	"	"	"	
Anthracene	ND	85	"	"	"	"	"	"	
Benzo (a) anthracene	ND	85	"	"	"	"	"	"	
Benzo (a) pyrene	ND	85	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	85	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	85	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	85	"	"	"	"	"	"	
Chrysene	28	25	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	85	"	"	"	"	"	"	
Fluoranthene	60	50	"	"	"	"	"	"	
Fluorene	ND	85	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	85	"	"	"	"	"	"	
Naphthalene	ND	85	"	"	"	"	"	"	
Phenanthrene	60	50	"	"	"	"	"	"	
Pyrene	160	85	"	"	"	"	"	"	

Surrogate: Terphenyl-d14 108 % 70-130 " " " "

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TPH-Gasoline by GC/MS

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S9-12 (Composite) (CZK1152-15) Soil Sampled: 11/29/16 08:20 Received: 11/30/16 13:49									
Gasoline	ND	0.20	mg/kg	1	CZ08892	12/02/16	12/02/16	EPA 8260M	
<i>Surrogate: Toluene-d8</i>		84 %	65-135		"	"	"	"	
S84-86 (Composite) (CZK1152-AC) Soil Sampled: 11/29/16 14:20 Received: 11/30/16 13:49									
Gasoline	ND	0.20	mg/kg	1	CZ08892	12/02/16	12/02/16	EPA 8260M	
<i>Surrogate: Toluene-d8</i>		84 %	65-135		"	"	"	"	
S87-89 (Composite) (CZK1152-AG) Soil Sampled: 11/29/16 14:35 Received: 11/30/16 13:49									
Gasoline	ND	0.20	mg/kg	1	CZ08892	12/02/16	12/02/16	EPA 8260M	
<i>Surrogate: Toluene-d8</i>		84 %	65-135		"	"	"	"	

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S84-86 (Composite) (CZK1152-AC) Soil Sampled: 11/29/16 14:20 Received: 11/30/16 13:49									
Benzene	ND	5.0	µg/kg	1	CZ08892	12/02/16	12/02/16	EPA 8260B	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
<hr/>									
<i>Surrogate: Toluene-d8</i>		84 %		60-140	"	"	"	"	
S87-89 (Composite) (CZK1152-AG) Soil Sampled: 11/29/16 14:35 Received: 11/30/16 13:49									
Benzene	ND	5.0	µg/kg	1	CZ08892	12/02/16	12/02/16	EPA 8260B	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
<hr/>									
<i>Surrogate: Toluene-d8</i>		84 %		60-140	"	"	"	"	
S94 (CZK1152-AM) Soil Sampled: 11/29/16 08:15 Received: 11/30/16 13:49									
Methyl tert-butyl ether	ND	5.0	µg/kg	1	CZ08892	12/02/16	12/02/16	EPA 8260B	
<hr/>									
<i>Surrogate: Toluene-d8</i>		85 %		60-140	"	"	"	"	

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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 CZ08885 - EPA 3050B

Blank (CZ08885-BLK1)

Prepared & Analyzed: 12/02/16

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

LCS (CZ08885-BS1)

Prepared & Analyzed: 12/02/16

Arsenic	93.0	1.0	mg/kg	100	93	75-125
Lead	97.9	2.5	"	100	98	75-125
Selenium	96.0	2.5	"	100	96	75-125
Thallium	95.6	1.0	"	100	96	75-125
Antimony	104	2.5	"	100	104	75-125
Barium	98.5	1.0	"	100	99	75-125
Beryllium	105	1.0	"	100	105	75-125
Cadmium	94.7	1.0	"	100	95	75-125
Chromium	86.6	1.0	"	100	87	75-125
Cobalt	83.5	1.0	"	100	83	75-125
Copper	88.3	1.0	"	100	88	75-125
Nickel	87.4	1.0	"	100	87	75-125
Molybdenum	96.0	1.0	"	100	96	75-125
Silver	119	1.0	"	100	119	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 CZ08885 - EPA 3050B

LCS (CZ08885-BS1)

Prepared & Analyzed: 12/02/16

Vanadium	96.0	1.0	mg/kg	100		96	75-125			
Zinc	84.3	2.5	"	100		84	75-125			

Matrix Spike (CZ08885-MS1)

Source: CZL0031-01

Prepared & Analyzed: 12/02/16

Arsenic	82.7	1.0	mg/kg	100	4.35	78	75-125			
Lead	119	2.5	"	100	13.4	106	75-125			
Selenium	81.8	2.5	"	100	ND	82	75-125			
Thallium	105	1.0	"	100	0.265	105	75-125			
Antimony	43.0	2.5	"	100	0.695	42	75-125			QM-5
Barium	300	1.0	"	100	168	132	75-125			QM-5
Beryllium	101	1.0	"	100	0.260	101	75-125			
Cadmium	99.9	1.0	"	100	0.390	100	75-125			
Chromium	123	1.0	"	100	33.2	90	75-125			
Cobalt	88.7	1.0	"	100	7.89	81	75-125			
Copper	107	1.0	"	100	22.2	85	75-125			
Nickel	115	1.0	"	100	26.0	89	75-125			
Molybdenum	98.3	1.0	"	100	1.29	97	75-125			
Silver	126	1.0	"	100	0.105	126	75-125			QM-5
Vanadium	148	1.0	"	100	51.4	96	75-125			
Zinc	124	2.5	"	100	43.2	81	75-125			

Matrix Spike Dup (CZ08885-MSD1)

Source: CZL0031-01

Prepared & Analyzed: 12/02/16

Arsenic	85.0	1.0	mg/kg	100	4.35	81	75-125	3	30	
Lead	117	2.5	"	100	13.4	104	75-125	1	30	
Selenium	81.1	2.5	"	100	ND	81	75-125	1	30	
Thallium	102	1.0	"	100	0.265	102	75-125	3	30	
Antimony	43.6	2.5	"	100	0.695	43	75-125	1	30	QM-5
Barium	306	1.0	"	100	168	137	75-125	2	30	QM-5
Beryllium	102	1.0	"	100	0.260	101	75-125	0.9	30	
Cadmium	101	1.0	"	100	0.390	100	75-125	0.7	30	
Chromium	128	1.0	"	100	33.2	95	75-125	4	30	
Cobalt	87.0	1.0	"	100	7.89	79	75-125	2	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 CZ08885 - EPA 3050B

Matrix Spike Dup (CZ08885-MSD1)	Source: CZL0031-01	Prepared & Analyzed: 12/02/16								
Copper	110	1.0	mg/kg	100	22.2	88	75-125	3	30	
Nickel	117	1.0	"	100	26.0	91	75-125	2	30	
Molybdenum	97.4	1.0	"	100	1.29	96	75-125	0.9	30	
Silver	124	1.0	"	100	0.105	124	75-125	2	30	
Vanadium	151	1.0	"	100	51.4	99	75-125	2	30	
Zinc	131	2.5	"	100	43.2	88	75-125	5	30	

Batch CZ08886 - EPA 7471A

Blank (CZ08886-BLK1)	Prepared: 12/02/16 Analyzed: 12/05/16									
Mercury	ND	0.10	mg/kg							
LCS (CZ08886-BS1)	Prepared: 12/02/16 Analyzed: 12/05/16									
Mercury	0.265	0.10	mg/kg	0.250		106	75-125			
Matrix Spike (CZ08886-MS1)	Source: CZL0031-01	Prepared: 12/02/16 Analyzed: 12/05/16								
Mercury	0.381	0.10	mg/kg	0.250	0.0841	119	75-125			
Matrix Spike Dup (CZ08886-MSD1)	Source: CZL0031-01	Prepared: 12/02/16 Analyzed: 12/05/16								
Mercury	0.361	0.10	mg/kg	0.250	0.0841	111	75-125	5	25	

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Chlorinated Herbicides by EPA Method 8151A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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Batch CZ08868 - EPA 8151A

Blank (CZ08868-BLK1)

Prepared: 12/02/16 Analyzed: 12/06/16

2,4-D (2,4-Dichlorophenoxyacetic acid)	ND	0.050	mg/kg							
Dalapon	ND	1.0	"							
2,4-DB	ND	0.10	"							
Dicamba	ND	0.010	"							
Dichloroprop	ND	0.10	"							
Dinoseb	ND	0.010	"							
MCPA	ND	2.0	"							
MCPP	ND	2.0	"							
Pentachlorophenol	ND	0.010	"							
2,4,5-T	ND	0.010	"							
2,4,5-TP (Silvex)	ND	0.010	"							

Surrogate: 2,4-DCAA 0.0437 " 0.0500 87 50-150

LCS (CZ08868-BS1)

Prepared: 12/02/16 Analyzed: 12/06/16

Dicamba	0.0256	0.010	mg/kg	0.0250		102	50-150			
Dichloroprop	0.0294	0.10	"	0.0250		117	50-150			
Surrogate: 2,4-DCAA	0.0427		"	0.0500		85	50-150			

LCS Dup (CZ08868-BSD1)

Prepared: 12/02/16 Analyzed: 12/06/16

Dicamba	0.0275	0.010	mg/kg	0.0250		110	50-150	7	30	
Dichloroprop	0.0313	0.10	"	0.0250		125	50-150	6	30	
Surrogate: 2,4-DCAA	0.0445		"	0.0500		89	50-150			

Matrix Spike (CZ08868-MS1)

Source: CZK1152-AL

Prepared: 12/02/16 Analyzed: 12/06/16

QRL-8

Dicamba	0.0214	0.050	mg/kg	0.0250	ND	86	50-150			
Dichloroprop	0.0233	0.50	"	0.0250	ND	93	50-150			
Surrogate: 2,4-DCAA	0.0358		"	0.0500		72	50-150			

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Chlorinated Herbicides by EPA Method 8151A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CZ08868 - EPA 8151A

Matrix Spike Dup (CZ08868-MSD1)	Source: CZK1152-AL		Prepared: 12/02/16		Analyzed: 12/06/16		QRL-8			
Dicamba	0.0193	0.050	mg/kg	0.0250	ND	77	50-150	10	30	
Dichloroprop	0.0201	0.50	"	0.0250	ND	80	50-150	15	30	
Surrogate: 2,4-DCAA	0.0336		"	0.0500		67	50-150			

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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 CZ08836 - CA LUFT - orb shaker										
Blank (CZ08836-BLK1) Prepared: 11/30/16 Analyzed: 12/02/16										
Diesel	ND	1.0	mg/kg							
Motor Oil	ND	1.0	"							
Surrogate: <i>o</i> -Terphenyl	0.401		"	0.500		80	65-135			
LCS (CZ08836-BS1) Prepared: 11/30/16 Analyzed: 12/02/16										
Diesel	54.6	1.0	mg/kg	50.0		109	65-135			
Surrogate: <i>o</i> -Terphenyl	0.423		"	0.500		85	65-135			
LCS Dup (CZ08836-BSD1) Prepared: 11/30/16 Analyzed: 12/02/16										
Diesel	56.1	1.0	mg/kg	50.0		112	65-135	3	30	
Surrogate: <i>o</i> -Terphenyl	0.428		"	0.500		86	65-135			
Matrix Spike (CZ08836-MS1) Source: CZK1121-01 Prepared: 11/30/16 Analyzed: 12/02/16										
Diesel	64.2	1.0	mg/kg	50.0	ND	128	59-138			
Surrogate: <i>o</i> -Terphenyl	0.430		"	0.500		86	65-135			
Matrix Spike Dup (CZ08836-MSD1) Source: CZK1121-01 Prepared: 11/30/16 Analyzed: 12/02/16										
Diesel	66.0	1.0	mg/kg	50.0	ND	132	59-138	3	37	
Surrogate: <i>o</i> -Terphenyl	0.435		"	0.500		87	65-135			

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Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CZ08850 - EPA 3050B										
Blank (CZ08850-BLK1) Prepared & Analyzed: 12/01/16										
Lead	ND	2.5	mg/kg							
LCS (CZ08850-BS1) Prepared & Analyzed: 12/01/16										
Lead	94.8	2.5	mg/kg	100		95	75-125			
Matrix Spike (CZ08850-MS1) Source: CZK1152-01 Prepared & Analyzed: 12/01/16										
Lead	95.0	2.5	mg/kg	100	18.1	77	75-125			
Matrix Spike Dup (CZ08850-MSD1) Source: CZK1152-01 Prepared & Analyzed: 12/01/16										
Lead	103	2.5	mg/kg	100	18.1	85	75-125	8	30	
Batch CZ08851 - EPA 3050B										
Blank (CZ08851-BLK1) Prepared & Analyzed: 12/01/16										
Lead	ND	2.5	mg/kg							
LCS (CZ08851-BS1) Prepared & Analyzed: 12/01/16										
Lead	96.9	2.5	mg/kg	100		97	75-125			
Matrix Spike (CZ08851-MS1) Source: CZK1152-25 Prepared & Analyzed: 12/01/16										
Lead	90.7	2.5	mg/kg	100	31.0	60	75-125			QM-5
Matrix Spike Dup (CZ08851-MSD1) Source: CZK1152-25 Prepared & Analyzed: 12/01/16										
Lead	84.6	2.5	mg/kg	100	31.0	54	75-125	7	30	QM-5
Batch CZ08867 - EPA 3050B										
Blank (CZ08867-BLK1) Prepared & Analyzed: 12/02/16										
Lead	ND	2.5	mg/kg							

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Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CZ08867 - EPA 3050B										
Blank (CZ08867-BLK2) Prepared: 12/02/16 Analyzed: 12/06/16										
Lead	ND	0.50	mg/kg							
LCS (CZ08867-BS1) Prepared & Analyzed: 12/02/16										
Lead	105	2.5	mg/kg	100		105	75-125			
Matrix Spike (CZ08867-MS1) Source: CZK1152-52 Prepared & Analyzed: 12/02/16										
Lead	56.3	2.5	mg/kg	100	60.8	NR	75-125			QM-5
Matrix Spike Dup (CZ08867-MSD1) Source: CZK1152-52 Prepared & Analyzed: 12/02/16										
Lead	131	2.5	mg/kg	100	60.8	71	75-125	80	30	QM-5
Batch CZ08869 - EPA 3050B										
Blank (CZ08869-BLK1) Prepared & Analyzed: 12/02/16										
Lead	ND	2.5	mg/kg							
LCS (CZ08869-BS1) Prepared & Analyzed: 12/02/16										
Lead	100	2.5	mg/kg	100		100	75-125			
Matrix Spike (CZ08869-MS1) Source: CZK1152-85 Prepared & Analyzed: 12/02/16										
Lead	135	2.5	mg/kg	100	32.8	102	75-125			
Matrix Spike Dup (CZ08869-MSD1) Source: CZK1152-85 Prepared & Analyzed: 12/02/16										
Lead	127	2.5	mg/kg	100	32.8	94	75-125	6	30	
Batch CZ08885 - EPA 3050B										
Blank (CZ08885-BLK1) Prepared & Analyzed: 12/02/16										
Cadmium	ND	5.0	mg/kg							
Chromium	ND	25	"							
Lead	ND	50	"							
Nickel	ND	50	"							
Zinc	ND	25	"							

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Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CZ08885 - EPA 3050B

LCS (CZ08885-BS1)

Prepared & Analyzed: 12/02/16

Cadmium	94.7	5.0	mg/kg	100		95	75-125			
Chromium	86.6	25	"	100		87	75-125			
Lead	97.9	50	"	100		98	75-125			
Nickel	87.4	50	"	100		87	75-125			
Zinc	84.3	25	"	100		84	75-125			

Matrix Spike (CZ08885-MS1)

Source: CZL0031-01

Prepared & Analyzed: 12/02/16

Cadmium	99.9	5.0	mg/kg	100	ND	100	75-125			
Chromium	123	25	"	100	6.64	117	75-125			
Lead	119	50	"	100	ND	119	75-125			
Nickel	115	50	"	100	5.21	109	75-125			
Zinc	124	25	"	100	8.65	116	75-125			

Matrix Spike Dup (CZ08885-MSD1)

Source: CZL0031-01

Prepared & Analyzed: 12/02/16

Cadmium	101	5.0	mg/kg	100	ND	101	75-125	0.7	30	
Chromium	128	25	"	100	6.64	122	75-125	4	30	
Lead	117	50	"	100	ND	117	75-125	1	30	
Nickel	117	50	"	100	5.21	112	75-125	2	30	
Zinc	131	25	"	100	8.65	123	75-125	5	30	

Batch CZ08898 - EPA 3020A

Blank (CZ08898-BLK1)

Prepared & Analyzed: 12/05/16

Lead	ND	2.5	mg/kg							
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LCS (CZ08898-BS1)

Prepared & Analyzed: 12/05/16

Lead	10.1	2.5	mg/kg	10.0		101	75-125			
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Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CZ08898 - EPA 3020A

Matrix Spike (CZ08898-MS1)	Source: CZL0079-01			Prepared & Analyzed: 12/05/16						
Lead	17.6	2.5	mg/kg	10.0	7.34	103	75-125			
Matrix Spike Dup (CZ08898-MSD1)	Source: CZL0079-01			Prepared & Analyzed: 12/05/16						
Lead	17.6	2.5	mg/kg	10.0	7.34	103	75-125	0.07	30	

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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 CZ08859 - LUFT-DHS GCNV

Blank (CZ08859-BLK1)

Prepared: 12/01/16 Analyzed: 12/06/16

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	7.95		"	8.33		95	46-139			
Surrogate: Decachlorobiphenyl	8.64		"	8.33		104	52-141			

LCS (CZ08859-BS1)

Prepared: 12/01/16 Analyzed: 12/06/16

Aldrin	15.0	1.0	µg/kg	16.7		90	47-132			
gamma-BHC (Lindane)	14.7	1.7	"	16.7		88	56-133			
4,4'-DDT	17.1	3.3	"	16.7		103	46-137			
Dieldrin	15.5	1.0	"	16.7		93	44-143			
Endrin	18.5	3.3	"	16.7		111	30-147			
Heptachlor	16.5	1.7	"	16.7		99	33-148			
Surrogate: Tetrachloro-meta-xylene	8.37		"	8.33		100	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 CZ08859 - LUFT-DHS GCNV

LCS (CZ08859-BS1)

Prepared: 12/01/16 Analyzed: 12/06/16

Surrogate: Decachlorobiphenyl	9.24		µg/kg	8.33		111	52-141			
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LCS Dup (CZ08859-BS1)

Prepared: 12/01/16 Analyzed: 12/06/16

Aldrin	13.9	1.0	µg/kg	16.7		84	47-132	7	30	
gamma-BHC (Lindane)	13.7	1.7	"	16.7		82	56-133	7	30	
4,4'-DDT	16.0	3.3	"	16.7		96	46-137	7	30	
Dieldrin	14.4	1.0	"	16.7		86	44-143	7	30	
Endrin	17.1	3.3	"	16.7		102	30-147	8	30	
Heptachlor	15.4	1.7	"	16.7		92	33-148	7	30	
Surrogate: Tetrachloro-meta-xylene	8.75		"	8.33		105	46-139			
Surrogate: Decachlorobiphenyl	9.14		"	8.33		110	52-141			

Matrix Spike (CZ08859-MS1)

Source: CZK1152-04

Prepared: 12/01/16 Analyzed: 12/06/16

QRL-8

Aldrin	12.3	10	µg/kg	16.7	ND	74	47-138			
gamma-BHC (Lindane)	10.8	17	"	16.7	ND	65	38-144			
4,4'-DDT	19.6	33	"	16.7	ND	118	41-157			
Dieldrin	11.7	10	"	16.7	ND	70	46-155			
Endrin	16.9	33	"	16.7	ND	101	34-149			
Heptachlor	15.3	17	"	16.7	ND	92	36-155			
Surrogate: Tetrachloro-meta-xylene	17.5		"	20.8		84	46-139			
Surrogate: Decachlorobiphenyl	22.0		"	20.8		105	52-141			

Matrix Spike Dup (CZ08859-MSD1)

Source: CZK1152-04

Prepared: 12/01/16 Analyzed: 12/06/16

QRL-8

Aldrin	11.7	10	µg/kg	16.7	ND	70	47-138	5	35	
gamma-BHC (Lindane)	10.5	17	"	16.7	ND	63	38-144	2	35	
4,4'-DDT	18.2	33	"	16.7	ND	109	41-157	7	35	
Dieldrin	12.1	10	"	16.7	ND	72	46-155	3	35	
Endrin	16.2	33	"	16.7	ND	97	34-149	4	35	
Heptachlor	14.3	17	"	16.7	ND	86	36-155	7	35	
Surrogate: Tetrachloro-meta-xylene	16.7		"	20.8		80	46-139			
Surrogate: Decachlorobiphenyl	12.1		"	20.8		58	52-141			

CALIFORNIA LABORATORY SERVICES

Wallace Kuhl & Associates- West Sacramento 3050 Industrial Boulevard West Sacramento, CA 95691	Project: 368 &402 Petaluma Boulevard North Project Number: 10410.04 Project Manager: Matthew Taylor	CLS Work Order #: CZK1152 COC #:
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Polynuclear Aromatic Compounds by EPA Method 8310 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CZ08852 - LUFT-DHS HPLC

Blank (CZ08852-BLK1)

Prepared: 12/01/16 Analyzed: 12/05/16

Naphthalene	ND	17	µg/kg							
Acenaphthylene	ND	17	"							
Acenaphthene	ND	17	"							
Fluorene	ND	17	"							
Phenanthrene	ND	17	"							
Anthracene	ND	17	"							
Fluoranthene	ND	17	"							
Pyrene	ND	17	"							
Benzo (a) anthracene	ND	17	"							
Chrysene	ND	17	"							
Benzo (b) fluoranthene	ND	17	"							
Benzo (k) fluoranthene	ND	17	"							
Benzo (a) pyrene	ND	17	"							
Dibenz (a,h) anthracene	ND	17	"							
Benzo (g,h,i) perylene	ND	17	"							
Indeno (1,2,3-cd) pyrene	ND	17	"							
Surrogate: Terphenyl-dl4	87.3		"	83.3		105	70-130			

LCS (CZ08852-BS1)

Prepared: 12/01/16 Analyzed: 12/05/16

Phenanthrene	85.7	17	µg/kg	83.3		103	70-130			
Chrysene	95.0	17	"	83.3		114	70-130			
Benzo (g,h,i) perylene	98.8	17	"	83.3		119	70-130			
Surrogate: Terphenyl-dl4	91.2		"	83.3		109	70-130			

LCS Dup (CZ08852-BSD1)

Prepared: 12/01/16 Analyzed: 12/05/16

Phenanthrene	90.2	17	µg/kg	83.3		108	70-130	5	30	
Chrysene	100	17	"	83.3		120	70-130	5	30	
Benzo (g,h,i) perylene	104	17	"	83.3		125	70-130	5	30	
Surrogate: Terphenyl-dl4	89.8		"	83.3		108	70-130			

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Polynuclear Aromatic Compounds by EPA Method 8310 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CZ08852 - LUFT-DHS HPLC

Matrix Spike (CZ08852-MS1)	Source: CZK1152-39			Prepared: 12/01/16 Analyzed: 12/05/16						
Phenanthrene	196	85	µg/kg	83.3	85.8	132	60-140			
Chrysene	216	85	"	83.3	33.5	219	60-140			QM-5
Benzo (g,h,i) perylene	144	85	"	83.3	ND	173	60-140			QM-5
Surrogate: Terphenyl-d14	152		"	83.3		182	70-130			QS-4
Matrix Spike Dup (CZ08852-MSD1)	Source: CZK1152-39			Prepared: 12/01/16 Analyzed: 12/05/16						
Phenanthrene	99.2	85	µg/kg	83.3	85.8	16	60-140	66	35	QM-5
Chrysene	94.2	85	"	83.3	33.5	73	60-140	78	35	QM-5
Benzo (g,h,i) perylene	74.2	85	"	83.3	ND	89	60-140	64	35	QM-5
Surrogate: Terphenyl-d14	95.8		"	83.3		115	70-130			

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TPH-Gasoline by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CZ08892 - EPA 5030 Soil MS										
Blank (CZ08892-BLK1)										
Prepared & Analyzed: 12/02/16										
Gasoline	ND	0.20	mg/kg							
Surrogate: Toluene-d8	0.0251		"	0.0300		84	65-135			
LCS (CZ08892-BS1)										
Prepared & Analyzed: 12/02/16										
Gasoline	1.60	0.20	mg/kg	2.00		80	65-135			
Surrogate: Toluene-d8	0.0314		"	0.0300		105	65-135			
LCS Dup (CZ08892-BSD1)										
Prepared & Analyzed: 12/02/16										
Gasoline	1.71	0.20	mg/kg	2.00		85	65-135	6	30	
Surrogate: Toluene-d8	0.0318		"	0.0300		106	65-135			
Matrix Spike (CZ08892-MS1)										
Source: CZL0014-02 Prepared & Analyzed: 12/02/16										
Gasoline	1.51	0.20	mg/kg	2.00	ND	75	63-124			
Surrogate: Toluene-d8	0.0317		"	0.0300		106	65-135			
Matrix Spike Dup (CZ08892-MSD1)										
Source: CZL0014-02 Prepared: 12/02/16 Analyzed: 12/03/16										
Gasoline	1.48	0.20	mg/kg	2.00	ND	74	63-124	2	35	
Surrogate: Toluene-d8	0.0329		"	0.0300		110	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 CZ08892 - EPA 5030 Soil MS

Blank (CZ08892-BLK1)

Prepared & Analyzed: 12/02/16

Methyl tert-butyl ether	ND	5.0	µg/kg							
Benzene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
Toluene	ND	5.0	"							
Xylenes (total)	ND	10	"							

Surrogate: Toluene-d8

25.1 " 30.0 84 60-140

LCS (CZ08892-BS1)

Prepared & Analyzed: 12/02/16

Methyl tert-butyl ether	15.8	5.0	µg/kg	20.0		79	60-140			
Benzene	17.3	5.0	"	20.0		86	60-140			
Surrogate: Toluene-d8	31.4		"	30.0		105	60-140			

LCS Dup (CZ08892-BSD1)

Prepared & Analyzed: 12/02/16

Methyl tert-butyl ether	14.8	5.0	µg/kg	20.0		74	60-140	7	30	
Benzene	17.4	5.0	"	20.0		87	60-140	0.9	30	
Surrogate: Toluene-d8	31.8		"	30.0		106	60-140			

Matrix Spike (CZ08892-MS1)

Source: CZL0014-02

Prepared & Analyzed: 12/02/16

Methyl tert-butyl ether	11.7	5.0	µg/kg	20.0	ND	59	60-140			QM-5
Benzene	13.8	5.0	"	20.0	ND	69	60-140			
Surrogate: Toluene-d8	31.7		"	30.0		106	60-140			

Matrix Spike Dup (CZ08892-MSD1)

Source: CZL0014-02

Prepared: 12/02/16 Analyzed: 12/03/16

Methyl tert-butyl ether	15.0	5.0	µg/kg	20.0	ND	75	60-140	25	30	
Benzene	16.7	5.0	"	20.0	ND	84	60-140	19	30	
Surrogate: Toluene-d8	32.9		"	30.0		110	60-140			

CALIFORNIA LABORATORY SERVICES

Wallace Kuhl & Associates- West Sacramento 3050 Industrial Boulevard West Sacramento, CA 95691	Project: 368 &402 Petaluma Boulevard North Project Number: 10410.04 Project Manager: Matthew Taylor	CLS Work Order #: CZK1152 COC #:
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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-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.
- QC-2H The recovery of one CCV was greater than the acceptance limit. However, all analytes in the associated samples were ND; therefore a reanalysis was not performed.
- ICP/MS It was run by ICP/MS (EPA method 200.8/6020).
- 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