

May 17, 2017

Project No: 229649

Ms. Nina Larssen Remediation Project Manager Presidio of San Francisco 103 Montgomery Street San Francisco, California 94129

RE: Buildings 1255 and 1256 Confirmation Sampling Report and LUC Area Identification Lendrum Court Remediation Project Presidio of San Francisco, California

Dear Ms. Larssen:

This letter report ("report") summarizes the results of field sampling conducted on March 28 and April 26, 2017 by TRC Solutions, Inc., (TRC) on behalf of the Presidio Trust (Trust) in the vicinity of buildings 1255 and 1256 as part of the Lendrum Court Site Remediation. The report presents the limits of remedial excavation to achieve clean closure as outlined in the Remedial Action Work Plan, Lendrum Court, Presidio of San Francisco, California (RAW; TRC, 2015). Additionally, we identify the general extent of lead-impacted soil in the adjacent forest area. To avoid impacts associated with tree removal, implementation of land use controls in this area is recommended.

## SITE BACKGROUND

Lendrum Court remedial construction has been performed in accordance with the Department of Toxics Substance Control (DTSC) approved Revised Remedial Design and Implementation Plan, Lendrum Court, Presidio of San Francisco, California (RDIP; TRC, 2016) and the Remedial Action Work Plan, Lendrum Court, Presidio of San Francisco, California (RAW; TRC, 2015). Remedial construction consists of excavation, disposal, consolidation, and construction of a soil and hardscape cap. The soil cap extends to the west of Building 1257.

As outlined in the RAW, an area between the western edge of the soil cap containing lead above CULs but not containing debris was identified to be clean closed. A portion of this area has been excavated. Confirmation soil samples were collected at the western limit of the area in support of the clean closure designation. Analytical results showed lead concentrations above the residential screening level of 80 milligram per kilogram (mg/kg) along the southwestern perimeter of the clean closure area and above ecologic special status screening level of 160 mg/kg in a portion of the forest area to the southwest as shown on Figure 1.

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Following discussion with DTSC, additional soil samples were collected to 1) further delineate the horizontal and vertical extents of lead impacts to the south (north of building 1256) and to the west (north of building 1255 and forested area), and 2) determine the boundaries of additional excavation necessary to address identified lead impacts.

## MARCH AND APRIL 2017 SOIL SAMPLING ACTIVITIES

Prior to mobilizing for subsurface investigation activities, TRC submitted an Excavation Clearance Application to the Trust and received approval on March 20, 2017. To avoid damage to underground utility installations, TRC notified Underground Service Alert (USA). All proposed boring locations were cleared and any utilities in the proposed investigation vicinity were clearly marked. No conflicts with existing utilities and proposed soil boring locations were encountered during sampling.

On March 28, 2017, TRC mobilized to the Site and hand-augered 22 soil borings, 1255SB100 through 1255SB121, to a maximum depth of three (3) feet below ground surface (bgs). A total of 69 soil samples were collected. Sample depths ranged from 0.75 to 3.0 feet bgs. In accordance with the Trust's 2001 Quality Assurance Project Plan (QAPP), 10% duplicate samples were collected during the investigation. All samples were labeled, placed in a cooler with ice pending delivery to an accredited laboratory.

Collected samples were submitted to the laboratory, with an initial set of samples scheduled for analysis. The remaining samples were placed on hold pending results of the initial set. Samples on hold were released in a sequential manner until laboratory results indicated soil sample concentration were below or near screening levels. A total of 26 out of the 69 samples were analyzed for total lead and moisture content to delineate the vertical and horizontal extent of lead impacts above screening levels.

Based on results from the analytical samples collected in March, additional samples were collected adjacent to existing boring 1255SB116 and two step-out locations 1255SB120 and 1255SB121. A total of five samples were collected with sample depths ranging from 1.0 to 3.5 feet bgs. All samples were analyzed. Figure 2 present the locations of the soil samples collected and analyzed during this investigation.

## ANALYTICAL RESULTS

Soil samples were submitted to Curtis & Tompkins, Inc. laboratories, in Berkeley, California for analysis. Submitted samples were analyzed for total lead by EPA Test Method 6010B and moisture content by ASTM D2216. Total lead laboratory analytical results were reported on a dry weight basis. The lead analytical results were compared to the screening levels identified in the RAW; 80 mg/kg for residential areas and 160 mg/kg for forest areas. Lead was detected in all analyzed samples. A summary of the lead results for the forest area (ecologic special status) and the Building



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1255/1256 area (residential) is summarized in Table 1 and sample locations presented in Figure 1. Laboratory reports are included in Appendix A.

## **CONFIRMATION SAMPLE DATA**

## Building 1255 and 1256 Area Excavation

Areas with identified lead impacts will be remediated by extending the existing clean closed excavation to the south and southwest. The excavation volumes and depths are as follow:

Location	Estimated Excavation Area (square feet)	Excavation Depth (feet bgs)	Estimated Volume (cubic yards)
Alleyway and North of Building 1256	1,130	1.5	63
North of Building 1255	788	2	59
North of Building 1256	622	3.5	81

The vertical and horizontal limits of the excavation are defined by bottom and edge samples collected during the March/April 2017 investigation and by soil samples 1255SS05 and 1255SS13 that were collected by Haley & Aldrich, Inc. during an investigation conducted in 2011 to assess lead-based paint in soil around building 1255. The limits of the excavation and location of the confirmation samples used to determine the limits are presented in Figure 2. Following the completion of excavation the area will be backfilled to existing grade or will be slightly modified to optimize slope stability and drainage.

A 95-percent upper confidence limit (95UCL) on the arithmetic mean was calculated for the confirmation samples. The calculated 95UCL value for the residual soil lead concentration is 69.84 mg/kg and below the residential screening level of 80 mg/kg. The 95UCL calculation was conducted using EPA's ProUCL software version 5.1. The confirmation samples and concentration used for the 95UCL calculation are presented in Table 2 and the ProUCL output sheet is included as Appendix B.

## **Forest Area Land Use Control**

As shown on Figure 2, lead in soil above the 160 mg/kg CUL extends into the adjacent forest area. As discussed with Trust forestry and DTSC, the trees in this area serve as a wind block and are considered an important element of the neighborhood. Clean closure would require removal of these trees. As an alternative, Land Use Control (LUC) restrictions are proposed for the forest area. Access to the forest area is limited by the dense vegetation. Photographs of the forested area are presented in Appendix C. The limits of the LUC are preliminarily defined in Figure 2. Final LUC boundaries for the forest area will be determined in consultation with the Department of Toxic Substances Control (DTSC) and documented under separate cover.



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## CONCLUSIONS

Based on the results of this investigation, lead impacts above residential and recreational screening levels extend to the west and south west of the Lendrum Court western clean-closed zone. The lead impacts extend into the Historic Forest and Building 1255 and 1256 Area. A remedial excavation is proposed to address soil impacts in the Building 1255 and 1256 Area with an LUC for the forested area. We recommend requesting DTSC's concurrence for the excavation and further discussion of the extents of the forest area LUC.

Sincerely,

### TRC SOLUTIONS, INC.

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Justin Hanzel-Durbin, EIT Senior Engineer / Project Manager

Attachments:

Alfren Ay

Alfonso Ang, PE Senior Engineer / Project Manager

Figure 1 – Buildings 1255/1256 Lead Investigation Figure 2 – 1255-1256 Excavation Limits and Confirmation Sample Locations Table 1 – Lead Analysis Results Table 2 – Lead Risk Evaluation Appendix A – Laboratory Data Reports Appendix B – Buildings 1255 and 1256 Area Lead Risk Evaluation Pro UCL Appendix C – Fores Area Photographs



Figures





	LEGEND			
ALL	-145-	Exis	ting co	ontour elevation
- aux		Арр	roxima	ate limits of soil cap
6[0.0] 0		App serv	roxima e as ca	ate areas of building that ap
		Area hard	as of a lscape	sphalt / pavement / that serve as cap
		App clea	roxima n close	ate areas consolidated and ed (0.5')
2[0.5] I		App clea	roxima n close	ate areas consolidated and ed (2.0')
		Арр	roxima	ate forested area
	$\boxtimes$	LUC	Area	
		Exca	avation	n- 1.5 ft. (1130 ft <sup>2</sup> , 63 yd <sup>3</sup> )
		Exca	avation	n- 2 ft. (788 ft <sup>2</sup> , 59 yd <sup>3</sup> )
		Exca	avation	n- 3.5 ft. (622 ft <sup>2</sup> , 81 yd <sup>3</sup> )
	Δ	Perii loca	meter ( tion	confirmation sampling
	•	Exca loca	avation tion	n confirmation sampling
		Lano (80 i	dscape mg/kg)	ed / Residential Levels )
		Perii loca	meter ( tion (20	confirmation sampling 017)
	•	Exca loca	avation tion (20	n confirmation sampling 017)
	0	Hale	ey & Al	drich sample (2011)
	1256SS04(0.25)/89	Sarr bgs)	nple ide /Lead	entification(depth in feet concentration in mg/Kg
	S	Side	wall S	ample
	В	Botte	om Sa	mple
			Samp	ole ID
	Inorganic		Conc	entration (mg/kg)
	SOURCE: Base	plan b	y Towill,	October 29-November 4, 2015
	1255-125 CONFIRM	6 EX ATIC	CAVA	ATION LIMITS AND AMPLE LOCATIONS
	s	Len Th San F	drum ( e Pres ranciso	Court Area sidio Trust co, California
	<b>OTRC</b>	229	649	FIGURE 2

Tables

# Table 1Lead Analysis Results (March/April 2017)Buildings 1255-1256 Lead InvestigationLendrum CourtPresidio of San Francisco, San Francisco, CA

		Sample		
		Depth	Total Lead <sup>a</sup>	
Sample ID	Date Collected	(feet bgs)	(mg/kg)	Location
125550100	3/28/2017	1.5	230	Building 1255/1256
125558100	3/28/2017	2.0	15	Buluing 1255/1250
125550101	3/28/2017	1.5	1400	Building 12EE /12EC
125558101	3/28/2017	2.0	25	Buluing 1255/1250
1255SB102	3/28/2017	1.5	52	Forest Area
	3/28/2017	1.5	53000/1500 <sup>b</sup>	
1255SB103	3/28/2017	2.0	920	Building 12EE /12E6
	3/28/2017	3.0	120	Duluing 1255/1250
DUP-03282017-02	3/28/2017	1.5	3600/2500 <sup>b</sup>	
1255SB104	3/28/2017	0.75	13	Bulding 1255/1256
1255SB105	3/28/2017	0.75	39	Bulding 1255/1256
1255SB106	3/28/2017	0.75	96	Bulding 1255/1256
1255SB107	3/28/2017	0.75	100	Forest Area
	3/28/2017	0.25	260	
1255SB108	3/28/2017	0.75	200	Forest Area
	3/28/2017	1.5	8.1	
1255SB109	3/28/2017	0.75	34	Forest Area
DUP-03282017-01	3/28/2017	0.75	110	Torest Area
	3/28/2017	0.75	250	
1255SB116	3/28/2017	1.5	1100	
120000110	3/28/2017	2.0	540	Bulding 1255/1256
	4/26/2017	3.5	11	Duluing 1233/1230
DUP-03282017-06	3/28/2017	0.75	33	
DUP-042617-01	4/26/2017	3.5	6.5	
1255SB117	3/28/2017	0.75	200	
	3/28/2017	1.5	78	Bulding 1255/1256
DUP-03282017-05	3/28/2017	0.75	260	
1255SB118	3/28/2017	1.5	8.5	Bulding 1255/1256
1255SB120	4/26/2017	1.0	140	Bulding 1255/1256
120000120	4/26/2017	2.0	620	- 313116 - 2007 - 200



# Table 1Lead Analysis Results (March/April 2017)Buildings 1255-1256 Lead InvestigationLendrum CourtPresidio of San Francisco, San Francisco, CA

Sample ID	Date Collected	Sample Depth (feet bgs)	Total Lead <sup>a</sup> (mg/kg)	Location
1255SB121	4/26/2017 4/26/2017	1.0 2.0	82 130	Bulding 1255/1256

#### Footnotes:

<sup>a</sup> Total lead report on a dry weight basis. **Bold** values denote results above site specific cleanup level

<sup>b</sup> Re-analysis value

#### Abbreviations:

bgs = below ground surface ID = identification mg/kg = milligrams per kilogram



## Table 2Lead Risk EvaluationBuildings 1255-1256 Lead InvestigationLendrum CourtPresidio of San Francisco, San Francisco, CA

Sample Location	Sample Depth (feet bgs)	Confirmation Type	Lead <sup>a</sup> (mg/kg)
1255SS05[0.25] <sup>d</sup>	0.25	Sidewall	94
1255SS05[0.75] <sup>d</sup>	0.75	Sidewall	10
1255SS13[0.25] <sup>d</sup>	0.25	Sidewall	87
1255SS13[0.75] <sup>d</sup>	0.75	Sidewall	6.0
1255SB100[2.0]	2.0	Bottom/Sidewall	15
1255SB101[2.0]	2.0	Bottom	25
1255SB104[0.75]	0.75	Sidewall	13
1255SB105[0.75]	0.75	Sidewall	39
1255SB106[0.75]	0.75	Sidewall	96
1255SB116[3.5]	3.5	Bottom	11
1255SB117[1.5]	1.5	Bottom/Sidewall	78
1255SB118[1.5]	1.5	Bottom	8.5
1255SB121[1.0]	1.0	Sidewall	82
1255SB121[2.0]	2.0	Sidewall	130
	69.84		
	80		

#### Abbreviations:

bgs = below ground surface mg/kg = milligrams per kilogram

#### Footnotes:

<sup>a</sup> Data set used to calculate the 95UCL, which will remain after excavation activities.

<sup>b</sup> The 95UCL calculated using United States Environmental Protection Agency (USEPA) statistical software ProUCL Version 5.1.00 published June 20, 2016.

- <sup>c</sup> Presidio-wide screening levels are from EKI's October 2002 with updates through 2015 *Development of Presidio-Wide Cleanup Levels for Soil, Sediment, Groundwater, and Surface Water, Presidio of San Francisco.*
- <sup>d</sup> Samples from lead-base paint investigation conducted by Haely & Aldrich in 2011 and retained as excavation boundary conditions.



Appendix A

Laboratory Data Reports



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Laboratory Job Number 287485 ANALYTICAL REPORT

TRC Environmental Solutions, Inc. 55 Second Street San Francisco, CA 94105-3491 Project : 229649.0 Location : Presidio Bldg 1255 Investigation Level : II

Complete TD			T-L TD		Tab TD
<u>sample ID</u>		Sample ID	Lad ID	Sample ID	Lab ID
1255SB100 (1.5)	287485-001	1255SB107 (2.0)	287485-024	1255SB115 (1.5)	287485-047
1255SB100 (2.0)	287485-002	1255SB108 (0.75)	287485-025	1255SB115 (2.0)	287485-048
1255SB100 (3.0)	287485-003	1255SB108 (1.5)	287485-026	1255SB116 (0.75)	287485-049
1255SB101 (1.5)	287485-004	1255SB108 (2.0)	287485-027	1255SB116 (1.5)	287485-050
1255SB101 (2.0)	287485-005	1255SB109 (0.75)	287485-028	1255SB116 (2.0)	287485-051
1255SB101 (3.0)	287485-006	1255SB109 (1.5)	287485-029	1255SB117 (0.75)	287485-052
1255SB102 (1.5)	287485-007	1255SB109 (2.0)	287485-030	1255SB117 (1.5)	287485-053
1255SB102 (2.0)	287485-008	1255SB110 (0.75)	287485-031	1255SB117 (2.0)	287485-054
1255SB102 (3.0)	287485-009	1255SB110 (1.5)	287485-032	1255SB118 (0.75)	287485-055
1255SB103 (1.5)	287485-010	1255SB110 (2.0)	287485-033	1255SB118 (1.5)	287485-056
1255SB103 (2.0)	287485-011	1255SB111 (0.75)	287485-034	1255SB118 (2.0)	287485-057
1255SB103 (3.0)	287485-012	1255SB111 (1.5)	287485-035	1255SB119 (0.75)	287485-058
1255SB104 (0.75)	287485-013	1255SB111 (2.0)	287485-036	1255SB119 (1.5)	287485-059
1255SB104 (1.5)	287485-014	1255SB112 (0.75)	287485-037	1255SB119 (2.0)	287485-060
1255SB104 (2.0)	287485-015	1255SB112 (1.5)	287485-038	1255SB108 (0.25)	287485-061
1255SB105 (0.75)	287485-016	1255SB112 (2.0)	287485-039	1255SB109 (0.25)	287485-062
1255SB105 (1.5)	287485-017	1255SB113 (0.75)	287485-040	DUP-03282017-01	287485-063
1255SB105 (2.0)	287485-018	1255SB113 (1.5)	287485-041	DUP-03282017-02	287485-064
1255SB106 (0.75)	287485-019	1255SB113 (2.0)	287485-042	DUP-03282017-03	287485-065
1255SB106 (1.5)	287485-020	1255SB114 (0.75)	287485-043	DUP-03282017-04	287485-066
1255SB106 (2.0)	287485-021	1255SB114 (1.5)	287485-044	DUP-03282017-05	287485-067
1255SB107 (0.75)	287485-022	1255SB114 (2.0)	287485-045	DUP-03282017-06	287485-068
1255SB107 (1.5)	287485-023	1255SB115 (0.75)	287485-046		

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature:

Mike Dahlquist Project Manager mike.dahlquist@ctberk.com (510) 204-2225 Ext 13101

CA ELAP# 2896, NELAP# 4044-001

Date: 04/04/2017



#### CASE NARRATIVE

Laboratory number: Client: Project: Location: Request Date: Samples Received: 287485 TRC Solutions 229649.0 Presidio Bldg 1255 Investigation 03/29/17 03/29/17

This data package contains sample and QC results for eleven soil samples, requested for the above referenced project on 03/29/17. The samples were received cold and intact.

#### Metals (EPA 6010B):

No analytical problems were encountered.

#### Moisture (ASTM D2216/CLP):

No analytical problems were encountered.













Login #       1374435       Date Received G: M 17       Number of coolers       1         Client M       Mignal 255       In Westrage         Date Logged in	COOLER RECEIL I CHECKLIST	Curtis & Tompkins, Ltd.
Date Opened 2: 29.17- By (print)       (sign)         Date Labeled       By (print)       (sign)         Date Labeled       By (print)       (sign)         1. Did cooler come with a shipping slip (airbill, etc)       YES (cicle)       on cooler         Shipping info       Name       Date         2A. Were custody seals present?       YES (cicle)       on cooler       on samples         B. Were custody seals intact upon arrival?       YES NO       YES NO         3. Were custody papers fled out properly (ink, signed, etc)?       CTBS NO         4. Were custody papers filed out properly (ink, signed, etc)?       CTBS NO         5. Is the project identifiable from custody papers? (If so fill out top of form)       CBS NO         6. Indicate the packing in cooler: (I other, describe)       Bage:       None         Bubble Wrap       Pean bleck       Bage:       None         Bubble Wrap       Pean bleck       Bage:       None         Cloth material       Cardboard       Styrofoam       Paper towels         7. Temperature documentation:       * Notify PM if temperature exceeds 6°C       Type of ice used: Wet       Blue/Gel       None       Temp(°C)       . (I         1       Temperature blank(s) included?       Thermometer#       IR Gun#       A       Storfoam <th>Login # <math>2\$7435</math> Date Received <math>3.29.17</math> Client TPC Project Presiding</th> <th>Number of coolers / Bbla 1255 Invibilities</th>	Login # $2$7435$ Date Received $3.29.17$ Client TPC Project Presiding	Number of coolers / Bbla 1255 Invibilities
Date Logged in By (print)		
Date Labeled       By (print)       (sign)         1. Did cooler come with a shipping slip (airbill, etc)       YES (sign)         Shipping info	Date Logged in By (print) (sign)	
1. Did cooler come with a shipping slip (airbill, etc)	Date Labeled By (print) (sign)	
1. Did cooler come with a shipping slip (airbill, etc)       YES       YES       YES         Shipping info		
2A. Were custody seals present?	1. Did cooler come with a shipping slip (airbill, etc) Shipping info	yks QD
How many       Name       Date         2B. Were custody seals intact upon arrival?       YES NO       YES NO         3. Were custody papers filled out properly (ink, signed, etc)?       CES NO         4. Were custody papers filled out properly (ink, signed, etc)?       CES NO         5. Is the project identifiable from custody papers? (If so fill out top of form)       CES NO         6. Indicate the packing in cooler: (if other, describe)	2A. Were custody seals present?   YES (circle) on coole	r on samples ANO
2B. Were custody seals intact upon arrival?       YES NO         3. Were custody papers dry and intact when received?       GTS NO         4. Were custody papers filled out properly (ink, signed, etc)?       GTS NO         5. Is the project identifiable from custody papers? (If so fill out top of form)       GTS NO         6. Indicate the packing in cooler: (if other, describe)	How many Name	Date
3. Were custody papers dry and intact when received?	2B. Were custody seals intact upon arrival?	YES NO NA
4. Were custody papers filled out properly (ink, signed, etc)?       CES NO         5. Is the project identifiable from custody papers? (If so fill out top of form)       CDS NO         6. Indicate the packing in cooler: (if other, describe)	3. Were custody papers dry and intact when received?	CTES NO
5. Is the project identifiable from custody papers? (If so fill out top of form)	4. Were custody papers filled out properly (ink, signed, etc)?	CES NO
6. Indicate the packing in cooler: (if other, describe)	5. Is the project identifiable from custody papers? (If so fill out to	p of form) <u>(T</u> ES NO
Bubble Wrap       Foam blocks       Bags       None         Cloth material       Cardboard       Styrofoam       Paper towels         7. Temperature documentation:       * Notify PM if temperature exceeds 6°C         Type of ice used:       Wet       Blue/Gel       None       Temp(°C)       (/          Temperature blank(s) included?       Thermometer#       IR Gun#       A          Samples received on ice directly from the field. Cooling process had begun         3. Were Method 5035 sampling containers present?       YES       YES         If YES, what time were they transferred to freezer?       YES       NO         0. Are there any missing / extra samples?       YES       YES       NO         2. Are samples labels present, in good condition and complete?       YES       NO         3. Do the sample labels agree with custody papers?       YES       NO         4. Was sufficient amount of sample sent for tests requested?       YES       NO         5. Are the samples appropriately preserved?       YES       NO         6. Did you change the hold time in LIMS for upreserved VOAs?       YES       YES         7. Did you change the hold time in LIMS for upreserved terracores?       YES       NO         9. Did you change the hold time in LIMS for upreserved terracores?	0. Indicate the packing in cooler: (if other, describe)	
Cloth material       Cardboard       Styrofoam       Paper towels         7. Temperature documentation:       * Notify PM if temperature exceeds 6°C         Type of ice used:       Wet       Blue/Gel       None       Temp(°C)       . (/ <ul> <li>Temperature blank(s) included?</li> <li>Thermometer#</li> <li>IR Gun#</li> <li>Samples received on ice directly from the field. Cooling process had begun</li> </ul> 3. Were Method 5035 sampling containers present?       YES       YES       YES         If YES, what time were they transferred to freezer?       YES       YES       YES         0. Are there any missing / extra samples?       YES       YES       YES         1. Are sample labels present, in good condition and complete?       YES       NO         2. Are sample labels agree with custody papers?       YES       NO         3. Do the sample labels agree with custody papers?       YES       NO         4. Was sufficient amount of sample sent for tests requested?       YES       YES         7. Did you chack preservatives for all bottles for each sample?       YES       YES         7. Did you change the hold time in LIMS for upreserved VOAs?       YES       YES       YES         9. Did you change the hold time in LIMS for upreserved terracores?       YES       YES       YE	Bubble Wrap Foam blocks Bags	<u> </u>
7. reinpetature documentation:       * Notify PM if temperature exceeds 6°C         Type of ice used:       Wet       Blue/Gel       None       Temp(°C)          Competative blank(s) included?       Thermometer#       IR Gun#       A         Samples received on ice directly from the field. Cooling process had begun         8. Were Method 5035 sampling containers present?       YES       YES         1. YES, what time were they transferred to freezer?       YES       NO         0. Are there any missing / extra samples?       YES       NO         1. Are samples in the appropriate containers for indicated tests?       YES       NO         2. Are sample labels present, in good condition and complete?       YES       NO         3. Do the sample labels agree with custody papers?       YES       NO         4. Was sufficient amount of sample sent for tests requested?       YES       NO         5. Are the samples appropriately preserved?       YES       NO         6. Did you check preservatives for all bottles for each sample?       YES       NO         7. Did you document your preservative check? (pH strip lot#       YES       NO         8. Did you change the hold time in LIMS for upreserved VOAs?       YES       YES         9. Did you change the hold time in VOA samples?       YES       YES	Cloth material Cardboard Styrofoam	Paper towels
Type of ice used:       Wet       Blue/Gel       None       Temp(°C)       . () <ul> <li>Temperature blank(s) included?</li> <li>Thermometer#</li> <li>IR Gun#</li> <li>A</li> </ul> <ul> <li>Samples received on ice directly from the field. Cooling process had begun</li> </ul> <ul> <li>Were Method 5035 sampling containers present?</li> <li>YES NO</li> <li>If YES, what time were they transferred to freezer?</li> <li>YES NO</li> <li>Are there any missing / extra samples?</li> <li>YES NO</li> <li>Are samples in the appropriate containers for indicated tests?</li> <li>YES NO</li> <li>Are sample labels agree with custody papers?</li> <li>YES NO</li> <li>Are sample labels agree with custody papers?</li> <li>YES NO</li> </ul> <li>Are sample labels agree with custody papers?</li> <li>YES NO</li> <li>Are the sample appropriately preserved?</li> <li>YES NO</li> <li>Are sample appropriately preserved?</li> <li>YES NO</li>	* Notify PM if temperature ex	xceeds 6°C
□ Temperature blank(s) included? □ Thermometer# IR Gun#         □ Samples received on ice directly from the field. Cooling process had begun         8. Were Method 5035 sampling containers present? YES NO         If YES, what time were they transferred to freezer?         0. Did all bottles arrive unbroken/unopened?         1. Are samples in the appropriate containers for indicated tests?         2. Are there any missing / extra samples?         1. Are sample labels present, in good condition and complete?         2. Are sample labels present, in good condition and complete?         3. Do the sample labels agree with custody papers?         4. Was sufficient amount of sample sent for tests requested?         YES NO         5. Are the samples appropriately preserved?         YES NO         6. Did you check preservatives for all bottles for each sample?         YES NO         8. Did you change the hold time in LIMS for unpreserved VOAs?YES NO         9. Did you change the hold time in LIMS for preserved terracores?YES NO         9. Are bubbles > 6mm absent in VOA samples?YES NO         9. Math client contacted concerning this sample delivery?YES NO         9. Math client contacted concerning this sample delivery?YES NO         9. MMENTS         9. MMENTS	Type of ice used:	Temp(°C) . (0
□ Samples received on ice directly from the field. Cooling process had begun         8. Were Method 5035 sampling containers present?       YES         If YES, what time were they transferred to freezer?       YES         9. Did all bottles arrive unbroken/unopened?       YES         1. Are samples in the appropriate containers for indicated tests?       YES         2. Are sample labels present, in good condition and complete?       YES         3. Do the sample labels agree with custody papers?       YES         4. Was sufficient amount of sample sent for tests requested?       YES         7. Did you check preservatives for all bottles for each sample?       YES         9. Did you change the hold time in LIMS for unpreserved VOAs?       YES         9. Did you change the hold time in LIMS for preserved terracores?       YES         9. Did you change the hold time in LIMS for samples?       YES         9. Did you change the hold time in LIMS for upreserved terracores?       YES         9. Did you change the hold time in LIMS for upreserved terracores?       YES         9. Are bubbles > 6mm absent in VOA samples?       YES         9. Mot was called?       By       Date:         0. MMENTS       By       Date:	Temperature blank(s) included? Thermometer#	IR Gun# A
8. Were Method 5035 sampling containers present?       YES NO         If YES, what time were they transferred to freezer?       YES NO         9. Did all bottles arrive unbroken/unopened?       YES NO         1. Are samples in the appropriate containers for indicated tests?       YES NO         2. Are sample labels present, in good condition and complete?       YES NO         3. Do the sample labels agree with custody papers?       YES NO         4. Was sufficient amount of sample sent for tests requested?       YES NO         5. Are the samples appropriately preserved?       YES NO         6. Did you check preservatives for all bottles for each sample?       YES NO         7. Did you document your preservative check? (pH strip lot#       YES NO         9. Did you change the hold time in LIMS for unpreserved VOAs?       YES NO         9. Did you change the hold time in VOA samples?       YES NO         9. Did you change the concerning this sample delivery?       YES NO         9. May the client contacted concerning this sample delivery?       YES NO         9. Was the client contacted concerning this sample delivery?       YES NO         9. MMENTS       By       Date:	Samples received on ice directly from the field. Cooling n	
9. Were Method 5055 sampling containers present?       YES (NO)         If YES, what time were they transferred to freezer?       YES (NO)         0. Did all bottles arrive unbroken/unopened?       YES (NO)         0. Are there any missing / extra samples?       YES (NO)         1. Are samples in the appropriate containers for indicated tests?       YES (NO)         2. Are sample labels present, in good condition and complete?       YES (NO)         3. Do the sample labels agree with custody papers?       YES (NO)         4. Was sufficient amount of sample sent for tests requested?       YES (NO)         5. Are the samples appropriately preserved?       YES (NO)         6. Did you check preservatives for all bottles for each sample?       YES (NO)         7. Did you document your preservative check? (pH strip lot#       YES NO)         8. Did you change the hold time in LIMS for unpreserved VOAs?       YES NO         9. Did you change the hold time in LIMS for preserved terracores?       YES NO         9. Did you change the hold time in UAS for preserved terracores?       YES NO         9. Did you change the hold time in LIMS for preserved terracores?       YES NO         9. Did you change the hold time in LIMS for preserved terracores?       YES NO         9. Did you change the hold time in LIMS as maple delivery?       YES NO         9. Mate blies > 6mm absent in VOA samples?       YES	Were Math at 5025 and 11 and a control of the second secon	Tocess had begun
A TES, what the were they transferred to freezer?         D. Did all bottles arrive unbroken/unopened?         0. Are there any missing / extra samples?         1. Are samples in the appropriate containers for indicated tests?         YES NO         2. Are sample labels present, in good condition and complete?         3. Do the sample labels agree with custody papers?         Was sufficient amount of sample sent for tests requested?         ES NO         5. Are the samples appropriately preserved?         YES NO         6. Did you check preservatives for all bottles for each sample?         YES NO         7. Did you document your preservative check? (pH strip lot#         9. Did you change the hold time in LIMS for unpreserved VOAs?         YES NO         9. Did you change the hold time in LIMS for preserved terracores?         YES NO         9. Did you change the hold time in LIMS for preserved terracores?         YES NO         9. Are bubbles > 6mm absent in VOA samples?         YES NO         16 YES, Who was called?         By         Date:         DMMENTS	If VES what time ware there to be S	YES (NO)
0. Are there any missing / extra samples?       YES       YES         1. Are samples in the appropriate containers for indicated tests?       YES       NO         2. Are sample labels present, in good condition and complete?       YES       NO         3. Do the sample labels agree with custody papers?       YES       NO         4. Was sufficient amount of sample sent for tests requested?       YES       NO         5. Are the samples appropriately preserved?       YES       YES       NO         6. Did you check preservatives for all bottles for each sample?       YES       YES       NO         7. Did you document your preservative check? (pH strip lot#       YES       YES       NO         8. Did you change the hold time in LIMS for unpreserved VOAs?       YES       YES       NO         9. Did you change the hold time in LIMS for preserved terracores?       YES       YES       NO         9. Did you change the hold time in LIMS for preserved terracores?       YES       YES       YES         9. Are bubbles > 6mm absent in VOA samples?       YES       YES       YES       YES         1. Was the client contacted concerning this sample delivery?       YES       YES       YES       YES         1. Was the client contacted concerning this sample delivery?       YES       YES       YES       YES       <	Did all bottles arrive unbroken/unergrad?	
1. Are samples in the appropriate containers for indicated tests?       YES NO         2. Are sample labels present, in good condition and complete?       YES NO         3. Do the sample labels agree with custody papers?       YES NO         4. Was sufficient amount of sample sent for tests requested?       YES NO         5. Are the samples appropriately preserved?       YES NO         6. Did you check preservatives for all bottles for each sample?       YES NO         7. Did you document your preservative check? (pH strip lot#       YES NO         8. Did you change the hold time in LIMS for unpreserved VOAs?       YES NO         9. Did you change the hold time in LIMS for preserved terracores?       YES NO         9. Did you change the hold time in LIMS for preserved terracores?       YES NO         9. Did you change the hold time in LIMS for preserved terracores?       YES NO         9. Did you change the hold time in LIMS for preserved terracores?       YES NO         9. Are bubbles > 6mm absent in VOA samples?       YES NO         14. Was the client contacted concerning this sample delivery?       YES NO         15 YES, Who was called?       By       Date:         OMMENTS	10. Are there any missing / extra samples?	VES_NO
2. Are sample labels present, in good condition and complete?       The sample labels present, in good condition and complete?         3. Do the sample labels agree with custody papers?       The sample labels agree with custody papers?         4. Was sufficient amount of sample sent for tests requested?       The sample labels agree with custody papers?         5. Are the samples appropriately preserved?       YES NO         6. Did you check preservatives for all bottles for each sample?       YES NO         7. Did you document your preservative check? (pH strip lot#       YES NO         8. Did you change the hold time in LIMS for unpreserved VOAs?       YES NO         9. Did you change the hold time in LIMS for preserved terracores?       YES NO         9. Did you change the hold time in VOA samples?       YES NO         10. Was the client contacted concerning this sample delivery?       YES NO         11. Was the client contacted concerning this sample delivery?       YES NO         15. MARENTS       Date:	1. Are samples in the appropriate containers for indicated tests?	YES NO
3. Do the sample labels agree with custody papers?	2. Are sample labels present in good condition and complete?	
4. Was sufficient amount of sample sent for tests requested?       (ES) NO         5. Are the samples appropriately preserved?       YES NO         6. Did you check preservatives for all bottles for each sample?       YES NO         7. Did you document your preservative check? (pH strip lot#) YES NO       YES NO         8. Did you change the hold time in LIMS for unpreserved VOAs?       YES NO         9. Did you change the hold time in LIMS for preserved terracores?       YES NO         9. Did you change the hold time in VOA samples?       YES NO         9. Are bubbles > 6mm absent in VOA samples?       YES NO         10. Was the client contacted concerning this sample delivery?       YES NO         11 YES, Who was called?       By       Date:         OMMENTS	3. Do the sample labels agree with custody papers?	
5. Are the samples appropriately preserved?YES NO WA 6. Did you check preservatives for all bottles for each sample?YES NO WA 7. Did you document your preservative check? (pH strip lot#)YES NO WA 8. Did you change the hold time in LIMS for unpreserved VOAs?YES NO WA 9. Did you change the hold time in LIMS for preserved terracores?YES NO WA 9. Did you change the hold time in VOA samples?YES NO WA 1. Was the client contacted concerning this sample delivery?YES NO If YES, Who was called?ByDate: DMMENTS	4. Was sufficient amount of sample sent for tests requested?	VES NO
6. Did you check preservatives for all bottles for each sample?YES NO YA 7. Did you document your preservative check? (pH strip lot#) YES NO YA 8. Did you change the hold time in LIMS for unpreserved VOAs?YES NO YA 9. Did you change the hold time in LIMS for preserved terracores?YES NO YA 9. Did you change the hold time in VOA samples?YES NO YA 1. Was the client contacted concerning this sample delivery?YES NO YA 1. Was the client contacted concerning this sample delivery?YES NO If YES, Who was called?ByDate: DMMENTS	5. Are the samples appropriately preserved?	VES NO NV
7. Did you document your preservative check? (pH strip lot#) YES NO X7 8. Did you change the hold time in LIMS for unpreserved VOAs?YES NO X7 9. Did you change the hold time in LIMS for preserved terracores?YES NO X7 0. Are bubbles > 6mm absent in VOA samples?YES NO X7 1. Was the client contacted concerning this sample delivery?YES TO If YES, Who was called?ByDate: DMMENTS	6. Did you check preservatives for all bottles for each sample?	YES NO NTA
8. Did you change the hold time in LIMS for unpreserved VOAs?YES NO YA 9. Did you change the hold time in LIMS for preserved terracores?YES NO YA 0. Are bubbles > 6mm absent in VOA samples?YES NO YA 1. Was the client contacted concerning this sample delivery?YES YES YES YES YES If YES, Who was called?ByDate: DMMENTS	7. Did you document your preservative check? (pH strip lot#	) YES NO XTA
9. Did you change the hold time in LIMS for preserved terracores?YES NO WA 0. Are bubbles > 6mm absent in VOA samples?YES NO WA 1. Was the client contacted concerning this sample delivery?YES NO If YES, Who was called?ByDate: OMMENTS	8. Did you change the hold time in LIMS for unpreserved VOAs?	YES NO N7A
D. Are bubbles > 6mm absent in VOA samples?YES NO YES NO YES NO YES NO YES TO YES, Who was called?ByDate:	9. Did you change the hold time in LIMS for preserved terracores?	YES NO NA
I. Was the client contacted concerning this sample delivery?YES       YES         If YES, Who was called?ByDate:       Date:         DMMENTS	). Are bubbles > 6mm absent in VOA samples?	YES NO NOA
IT YES, Who was called?ByDate:Date:	. Was the client contacted concerning this sample delivery?	YES NO
OMMENTS	If YES, Who was called? By	Date:
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## Detections Summary for 287485

Results for any subcontracted analyses are not included in this summary.

Client : TRC Solutions Project : 229649.0 Location : Presidio Bldg 1255 Investigation

Client Sam	ple ID :	1255SB100	) (1.5)		Laborat	ory Sam	ple ID :	287485-001
Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Lead	230		1.3	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Client Samp	ple ID :	1255SB101	(1.5)		Laborat	ory Sam	ple ID :	287485-004
Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Lead	1,400		60	mg/Kg	Dry	100.0	EPA 6010B	EPA 3050B
Client Sam	ple ID :	1255SB102	2 (1.5)		Laborat	ory Sam	ple ID :	287485-007
Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Lead	52		1.2	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Client Samp No Detecti Client Samp	ple ID : ions ple ID :	1255SB103 1255SB104	3 (1.5) 4 (0.75	)	Laborat Labora	ory Sam tory Sa	ple ID : mple ID :	287485-010 287485-013
Analyte	Result	Flags	RL	Units	Basis	TDF	Method	Prep Method
Lead	13		1.2	ma/Ka	Drv	1.000	EPA 6010B	EPA 3050B
Client Samp	ple ID :	1255SB105	5 (0.75	)	Labora	tory Sa	mple ID :	287485-016
Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Lead	39		1.2	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Client Samp	ple ID :	1255SB106	5 (0.75	)	Labora	tory Sa	mple ID :	287485-019
Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Lead	96		1.2	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B

8.0



Client Sam <u>r</u>	ple ID :	1255SB1(	)7 (0.75	)	Labora	tory Sa	287485-022			
Analyte	Result	Method	Prep Method							
Lead	100		1.4	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B		
Client Sample ID : 1255SB108 (0.75) Laboratory Sample ID : 287485-025										
Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method		
Lead	200		1.3	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B		
Client Samp	ple ID :	1255SB1(	)8 (0.25	)	Labora	tory Sa	mple ID :	287485-061		
Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method		
Lead	260		1.3	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B		
Client Sam	ole ID :	DUP-0328	32017-02		Laborat	orv Sam	ple ID :	287485-064		
<u>-</u>							L			

No Detections

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0.95

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		Lead			
Lab #:	287485	Location:	Presidio Bldg 12	255 Invest	igation
Client:	TRC Solutions	Prep:	EPA 3050B		
Project#:	229649.0	Analysis:	EPA 6010B		
Analyte:	Lead	Sampled:	03/28/17		
Matrix:	Soil	Received:	03/29/17		
Units:	mg/Kg	Prepared:	04/01/17		
Basis:	dry	Analyzed:	04/03/17		
Batch#:	246199				
Field ID	Type Lab ID	Result	RL	Moisture	Diln Fac
1255SB100 (1.5)	SAMPLE 287485-001	230	1.3	25%	1.000
1255SB101 (1.5)	SAMPLE 287485-004	1,400	60	16%	100.0
1255SB102 (1.5)	SAMPLE 287485-007	52	1.2	18%	1.000
1255SB104 (0.75)	SAMPLE 287485-013	13	1.2	16%	1.000
1255SB105 (0.75)	SAMPLE 287485-016	39	1.2	17%	1.000
1255SB106 (0.75)	SAMPLE 287485-019	96	1.2	24%	1.000
1255SB107 (0.75)	SAMPLE 287485-022	100	1.4	26%	1.000
1255SB108 (0.75)	SAMPLE 287485-025	200	1.3	24%	1.000
1255SB108 (0.25)	SAMPLE 287485-061	260	1.3	30%	1.000

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BLANK QC879643



#### Batch QC Report

MSD

QC879647

			Lead					
Lab #:		287485	Location: H	Presidio Bld	lg 1255 I	Investiga	tion	
Client	:	TRC Solutions	Prep: H	EPA 3050B				
Projec	t#:	229649.0	Analysis: H	EPA 6010B				
Analyt	e:	Lead	Diln Fac:	1.000				
Field	ID:	ZZZZZZZZZZ	Batch#:	24619	9			
MSS La	b ID:	287562-001	Sampled:	03/31	/17			
Matrix	:	Soil	Received:	03/31	/17			
Units:		mg/Kg	Prepared:	04/01	/17			
Basis:		as received	Analyzed:	04/03	/17			
Туре	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC879644		55.56	56.68	102	80-120		
BSD	QC879645		51.02	51.28	101	80-120	2	20
MS	QC879646	10.21	53.76	59.78	92	50-131		

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and setting to the

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Laboratory Job Number 287805 ANALYTICAL REPORT

TRC Environmental Solutions, Inc. 55 Second Street San Francisco, CA 94105-3491 Project : 229649.0 Location : Presidio Bldg 1255 Investigation Level : II

<u>Sample ID</u>	<u>Lab ID</u>
1255SB100 (2.0)	287805-001
1255SB101 (2.0)	287805-002
1255SB103 (1.5)	287805-003
1255SB108 (1.5)	287805-004
1255SB109 (0.75)	287805-005
DUP-03282017-01	287805-006
DUP-03282017-02	287805-007

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature:

Mike Dahlquist Project Manager mike.dahlquist@ctberk.com (510) 204-2225 Ext 13101

CA ELAP# 2896, NELAP# 4044-001

Date: <u>04/10/2017</u>



#### CASE NARRATIVE

Laboratory number: Client: Project: Location: Request Date: Samples Received: 287805 TRC Solutions 229649.0 Presidio Bldg 1255 Investigation 04/07/17 03/29/17

This data package contains sample and QC results for seven soil samples, requested for the above referenced project on 04/07/17. The samples were received cold and intact.

#### Metals (EPA 6010B):

No analytical problems were encountered.

#### Moisture (ASTM D2216/CLP):

No analytical problems were encountered.

5.0



## Detections Summary for 287805

Results for any subcontracted analyses are not included in this summary.

Client : TRC Solutions Project : 229649.0 Location : Presidio Bldg 1255 Investigation

Client Sam	ple ID : 1	255SB100	(2.0)	(2.0) Laboratory Sample ID : 287805-00				
Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Lead	15		1.3	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Client Samp	ple ID : 1	255SB101	(2.0)		Laborato	ory Samj	ple ID :	287805-002
Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Lead	25		1.2	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Client Samp	Client Sample ID : 1255SB103 (1.5) Laboratory Sample ID : 287805-00							287805-003
Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Lead	53,000		61	mg/Kg	Dry	100.0	EPA 6010B	EPA 3050B
Client Sample ID : 1255SB108 (1.5) Laboratory Sample ID : 287805-00						287805-004		
Analyte	Result	Flags	RL	Units	Basis	LDF.	Method	Prep Method
				$m \alpha / l / \alpha$				
Leau	8.1		⊥.3	IIIG / KG	Dry	1.000	EPA 6010B	EPA 3050B
Client Sam	8.1 ple ID : 1	255SB109	(0.75	)	Laborat	tory Sa	mple ID :	EPA 3050B 287805-005
Client Samp Analyte	8.1 Dle ID : 1 Result	255SB109 Flags	(0.75 RL	) Units	Laborat Basis	I.000 tory Sau	Method	EPA 3050B 287805-005 Prep Method
Client Samp Analyte Lead	8.1 ole ID : 1 Result 34	255SB109 Flags	(0.75 RL 1.3	) Units mg/Kg	Laborat Basis Dry	1.000 tory Sau IDF 1.000	Method EPA 6010B	EPA 3050B 287805-005 Prep Method EPA 3050B
Client Samp Analyte Lead Client Samp	8.1 ole ID : 1 Result 34 ole ID : D	255SB109 Flags UP-032820	(0.75 RL 1.3	) Units mg/Kg	Laborat Basis Dry Laborato	I.000 tory San IDF 1.000 ory Sam	Method EPA 6010B	EPA 3050B 287805-005 Prep Method EPA 3050B 287805-006
Client Samp Analyte Lead Client Samp Analyte	8.1 ole ID : 1 Result 34 ole ID : D Result	255SB109 Flags UP-032820 Flags	(0.75 RL 1.3 D17-01 RL	Units Mg/Kg	Laborat Basis Dry Laborato Basis	I.000 tory Sau IDF 1.000 ory Samj IDF	Method ple ID : Method EPA 6010B ple ID : Method	EPA 3050B 287805-005 Prep Method EPA 3050B 287805-006 Prep Method
Client Samp Analyte Lead Client Samp Analyte Lead	8.1 ple ID : 1 Result 34 ple ID : D Result 110	255SB109 Flags UP-032820 Flags	(0.75 RL 1.3 D17-01 RL 1.2	Units Mg/Kg Units Mg/Kg	Laborat Basis Dry Laborato Basis Dry	I.000 tory San 1.000 ory Sam IDF 1.000	Method ple ID : ple ID : Method EPA 6010B	EPA 3050B 287805-005 Prep Method EPA 3050B 287805-006 Prep Method EPA 3050B
Client Samp Analyte Lead Client Samp Analyte Lead Client Samp	8.1 ole ID : 1 Result 34 ole ID : D Result 110 ole ID : D	255SB109 Flags UP-032820 Flags UP-032820	(0.75 <u>RL</u> 1.3 017-01 <u>RL</u> 1.2 017-02	Units mg/Kg Units mg/Kg	Laborato	I.000 IDF I.000 Dry Samj IDF I.000 Dry Samj	mple ID : Method EPA 6010B ple ID : Method EPA 6010B ple ID : ple ID :	EPA 3050B 287805-005 Prep Method EPA 3050B 287805-006 Prep Method EPA 3050B 287805-007 287805-007
Client Samp Analyte Lead Client Samp Analyte Lead Client Samp Analyte Lead	8.1 ple ID : 1 Result 34 ple ID : D Result 110 ple ID : D Result	255SB109 Flags UP-032820 Flags UP-032820 Flags	(0.75 <u>RL</u> 1.3 017-01 <u>RL</u> 1.2 017-02 <u>RL</u>	Units mg/Kg Units mg/Kg	Laborato Basis Dry Laborato Basis Dry Laborato Basis	I.000 IDF I.000 Dry Samj IDF I.000 Dry Samj	mple ID : Method EPA 6010B ple ID : Method EPA 6010B ple ID : Method PDA 6010B	287805-005 Prep Method EPA 3050B 287805-006 Prep Method EPA 3050B 287805-007 Prep Method Prep Method

7.0



1.000

1.0

		Lead			
Lab #:	287805	Location:	Presidio Bldg 125	55 Investi	gation
Client:	TRC Solutions	Prep:	EPA 3050B		
Project#:	229649.0	Analysis:	EPA 6010B		
Analyte:	Lead	Sampled:	03/28/17		
Matrix:	Soil	Received:	03/29/17		
Units:	mg/Kg	Prepared:	04/08/17		
Basis:	dry	Analyzed:	04/10/17		
Batch#:	246450				
Field ID	Type Lab ID	Result	RL	Moisture	Diln Fac
1255SB100 (2.0)	SAMPLE 287805-0	15	1.3	22%	1.000
1255SB101 (2.0)	SAMPLE 287805-0	22 25	1.2	19%	1.000
1255SB103 (1.5)	SAMPLE 287805-0	03 53,000	61	23%	100.0
1255SB108 (1.5)	SAMPLE 287805-0	8.1	1.3	26%	1.000
1255SB109 (0.75)	SAMPLE 287805-0	34	1.3	24%	1.000
DUP-03282017-01	SAMPLE 287805-00	06 110	1.2	23%	1.000
DUP-03282017-02	SAMPLE 287805-00	3,600	65	21%	100.0

ND

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## Batch QC Report

Lead						
Lab #:	287805		Location: Pre	sidio Bldg 1255	Investigation	
Client:	TRC Solutions		Prep: EPA	3050B		
Project#:	229649.0		Analysis: EPA	6010B		
Analyte:	Lead		Diln Fac:	1.000		
Field ID:	ZZZZZZZZZZ		Batch#:	246450		
MSS Lab ID:	287739-001		Sampled:	04/05/17		
Matrix:	Soil		Received:	04/05/17		
Units:	mg/Kg		Prepared:	04/08/17		
Basis:	dry		Analyzed:	04/10/17		
Type Lab ID	MSS Result	Spiked	Result	%REC Limits	Moisture RPD	Lim
50 0000640		E 1 E E		100 00 100		

туре	Lab ID	MSS Result	spiked	Result	%REC	LIMITS	Moisture R	RPD	LIM
BS	QC880642		51.55	52.77	102	80-120			
BSD	QC880643		51.02	53.29	104	80-120	2	2	20
MS	QC880644	11.49	56.75	58.59	83	50-131	11%		
MSD	QC880645		59.77	61.70	84	50-131	11% 1	1	48



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#### Laboratory Job Number 287921 ANALYTICAL REPORT

TRC Environmental Solutions, Inc. 55 Second Street San Francisco, CA 94105-3491 Project : 229649.0 Location : Presidio Bldg 1255 Investigation Level : II

<u>Sample ID</u>	<u>Lab ID</u>
1255SB103 (1.5)	287921-001
DUP-03282017-02	287921-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature:

Mike Dahlquist Project Manager mike.dahlquist@ctberk.com (510) 204-2225 Ext 13101

CA ELAP# 2896, NELAP# 4044-001

Date: <u>04/12/2017</u>



#### CASE NARRATIVE

Laboratory number: Client: Project: Location: Request Date: Samples Received: 287921 TRC Solutions 229649.0 Presidio Bldg 1255 Investigation 04/11/17 03/29/17

This data package contains sample and QC results for two soil samples, requested for the above referenced project on 04/11/17. The samples were received cold and intact.

#### Metals (EPA 6010B):

No analytical problems were encountered.

3.0


## Detections Summary for 287921

Results for any subcontracted analyses are not included in this summary.

Client : TRC Solutions Project : 229649.0 Location : Presidio Bldg 1255 Investigation

Client Sample ID : 1255SB103 (1.5) Laboratory Sample ID : 287921-001

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Lead	1,500		62	mg/Kg	Dry	100.0	EPA 6010B	EPA 3050B

Client Sample ID : DUP-03282017-02 Laboratory Sample ID : 287921-002

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Lead	2,500		66	mg/Kg	Dry	100.0	EPA 6010B	EPA 3050B



0.93

1.000

	Lead							
Lab #:	287921	Location:	Presidio Bldg 1255	5 Investigation				
Client:	TRC Solutions	Prep:	EPA 3050B					
Project#:	229649.0	Analysis:	EPA 6010B					
Analyte:	Lead	Sampled:	03/28/17					
Matrix:	Soil	Received:	03/29/17					
Units:	mg/Kg	Prepared:	04/11/17					
Basis:	dry	Analyzed:	04/12/17					
Batch#:	246551							
Field ID	Type Lab ID	Result	RL M	Moisture Diln Fac				
1255SB103 (1.5)	SAMPLE 287921-001	1,500	62 2	23% 100.0				
DUP-03282017-02	SAMPLE 287921-002	2,500	66 2	21% 100.0				

ND

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ND= Not Detected RL= Reporting Limit Page 1 of 1



		Lead
Lab #:	287921	Location: Presidio Bldg 1255 Investigation
Client:	TRC Solutions	Prep: EPA 3050B
Project#:	229649.0	Analysis: EPA 6010B
Analyte:	Lead	Batch#: 246551
Field ID:	DUP-03282017-02	Sampled: 03/28/17
MSS Lab ID:	287921-002	Received: 03/29/17
Matrix:	Soil	Prepared: 04/11/17
Units:	mg/Kg	Analyzed: 04/12/17
Basis:	dry	

Туре	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim	Diln Fac
BS	QC881062		53.19	52.78	99	80-120				1.000
BSD	QC881063		47.17	47.77	101	80-120		2	20	1.000
MS	QC881064	2,502	59.15	2,755	426 NM	50-131	21%			10.00
MSD	QC881065		69.55	3,845	1930 NM	50-131	21%	33	48	10.00



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#### Laboratory Job Number 287990 ANALYTICAL REPORT

TRC Environmental Solutions, Inc. 55 Second Street San Francisco, CA 94105-3491 Project : 229649.0 Location : Presidio Bldg 1255 Investigation Level : II

<u>Sample ID</u>	<u>Lab ID</u>
1255SB103 (2.0)	287990-001
1255SB116 (0.75)	287990-002
1255SB117 (0.75)	287990-003
DUP-03282017-05	287990-004
DUP-03282017-06	287990-005

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

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Signature:

Will Rice Project Manager will.rice@ctberk.com (510) 204-2221 Ext 13102

CA ELAP# 2896, NELAP# 4044-001

Date: <u>04/19/2017</u>



#### CASE NARRATIVE

Laboratory number: Client: Project: Location: Request Date: Samples Received: 287990 TRC Solutions 229649.0 Presidio Bldg 1255 Investigation 04/13/17 03/29/17

This data package contains sample and QC results for five soil samples, requested for the above referenced project on 04/13/17. The samples were received cold and intact.

#### Metals (EPA 6010B):

No analytical problems were encountered.

#### Moisture (ASTM D2216/CLP):

No analytical problems were encountered.



#### Detections Summary for 287990

Results for any subcontracted analyses are not included in this summary.

Client : TRC Solutions Project : 229649.0 Location : Presidio Bldg 1255 Investigation

Client Sample ID : 1255SB103 (2.0) Laboratory Sample ID : 287990-001

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Lead	920		61	mg/Kg	Dry	100.0	EPA 6010B	EPA 3050B
Moisture, Percent	21		1	00	As Recd	1.000	ASTM D2216/CLP	METHOD

Client Sample ID : 1255SB116 (0.75) Laboratory Sample ID : 287990-002

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Lead	250		1.2	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	17		1	010	As Recd	1.000	ASTM D2216/CLP	METHOD

Client Sample ID : 1255SB117 (0.75) Laboratory Sample ID : 287990-003

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Lead	200		1.2	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	17		1	00	As Recd	1.000	ASTM D2216/CLP	METHOD

Client Sample ID : DUP-03282017-05 Laboratory Sample ID : 287990-004

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Lead	260		1.2	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	17		1	010	As Recd	1.000	ASTM D2216/CLP	METHOD

Client Sample ID : DUP-03282017-06

Laboratory Sample ID :

287990-005

Analyte	Result	Flags	RL	Units	Basis	TDF.	Method	Prep Method
Lead	33		1.2	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	17		1	010	As Recd	1.000	ASTM D2216/CLP	METHOD



	L	ead
Lab #:	287990	Location: Presidio Bldg 1255 Investigation
Client:	TRC Solutions	Prep: EPA 3050B
Project#:	229649.0	Analysis: EPA 6010B
Analyte:	Lead	Batch#: 246791
Matrix:	Soil	Sampled: 03/28/17
Units:	mg/Kg	Received: 03/29/17
Basis:	dry	Prepared: 04/17/17

Field ID	Type	Lab ID	Result	RL	Moisture	Diln Fac	Analyzed
1255SB103 (2.0)	SAMPLE	287990-001	920	61	21%	100.0	04/18/17
1255SB116 (0.75)	SAMPLE	287990-002	250	1.2	17%	1.000	04/18/17
1255SB117 (0.75)	SAMPLE	287990-003	200	1.2	17%	1.000	04/18/17
DUP-03282017-05	SAMPLE	287990-004	260	1.2	17%	1.000	04/18/17
DUP-03282017-06	SAMPLE	287990-005	33	1.2	17%	1.000	04/18/17
	BLANK	QC881980	ND	1.0		1.000	04/17/17

ND= Not Detected RL= Reporting Limit Page 1 of 1



MSD

QC881984

			Lead					
Lab #:		287990	Location: H	Presidio Bld	lg 1255 I	Investiga	tion	
Client	:	TRC Solutions	Prep: H	EPA 3050B				
Projec	t#:	229649.0	Analysis: H	EPA 6010B				
Analyt	e:	Lead	Diln Fac:	1.000				
Field	ID:	ZZZZZZZZZZ	Batch#:	24679	1			
MSS La	b ID:	287924-001	Sampled:	04/11	/17			
Matrix	:	Soil	Received:	04/11	/17			
Units:		mg/Kg	Prepared:	04/17	/17			
Basis:		as received	Analyzed:	04/17	/17			
Туре	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC881981		46.73	46.59	100	80-120		
BSD	QC881982		50.51	50.09	99	80-120	1	20
MS	QC881983	10.67	53.76	54.42	81	50-131		

48.54

48.39

78

50-131

3

48



Moisture								
Lab #:	287990	Location:	Presidio Bldg 1255 Investigation					
Client:	TRC Solutions	Prep:	METHOD					
Project#:	229649.0	Analysis:	ASTM D2216/CLP					
Analyte:	Moisture, Percent	Batch#:	246856					
Matrix:	Soil	Sampled:	03/28/17					
Units:	8	Received:	03/29/17					
Diln Fac:	1.000	Analyzed:	04/19/17					

Field ID	Lab ID	Result	RL	
1255SB103 (2.0)	287990-001	21	1	
1255SB116 (0.75)	287990-002	17	1	
1255SB117 (0.75)	287990-003	17	1	
DUP-03282017-05	287990-004	17	1	
DUP-03282017-06	287990-005	17	1	



		Moisture	
Lab #:	287990	Location:	: Presidio Bldg 1255 Investigation
Client:	TRC Solutions	Prep:	METHOD
Project#:	229649.0	Analysis:	: ASTM D2216/CLP
Analyte:	Moisture, Percent	Units:	8
Field ID:	ZZZZZZZZZZ	Diln Fac:	: 1.000
Type:	SDUP	Batch#:	246856
MSS Lab ID:	288065-046	Sampled:	04/12/17
Lab ID:	QC882230	Received:	: 04/14/17
Matrix:	Soil	Analyzed:	: 04/19/17
MSS Result	Result	RL	RPD Lim
38.82	36.31	1.000	7 26

RL= Reporting Limit RPD= Relative Percent Difference Page 1 of 1



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#### Laboratory Job Number 288132 ANALYTICAL REPORT

TRC Environmental Solutions, Inc. 55 Second Street San Francisco, CA 94105-3491 Project : 229649.0 Location : Presidio Bldg 1255 Investigation Level : II

Sample	ID	<u>Lab ID</u>
1255SB103	(3.0)	288132-001
1255SB116	(1.5)	288132-002
1255SB117	(1.5)	288132-003
1255SB118	(1.5)	288132-004

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature:

Trog

Tracy Babjar Project Manager tracy.babjar@ctberk.com (510) 204-2226 Ext 13107

CA ELAP# 2896, NELAP# 4044-001

Date: <u>04/21/2017</u>



#### CASE NARRATIVE

Laboratory number: Client: Project: Location: Request Date: Samples Received: 288132 TRC Solutions 229649.0 Presidio Bldg 1255 Investigation 04/18/17 03/29/17

This data package contains sample and QC results for four soil samples, requested for the above referenced project on 04/18/17. The samples were received cold and intact.

#### Metals (EPA 6010B):

No analytical problems were encountered.

#### Moisture (ASTM D2216/CLP):

No analytical problems were encountered.



#### Detections Summary for 288132

Results for any subcontracted analyses are not included in this summary.

Client : TRC Solutions Project : 229649.0 Location : Presidio Bldg 1255 Investigation

Client Sample ID : 1255SB103 (3.0) Laboratory Sample ID : 288132-001

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Lead	120		1.0	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	3		1	00	As Recd	1.000	ASTM D2216/CLP	METHOD

Client Sample ID : 1255SB116 (1.5) Laboratory Sample ID : 288132-002

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Lead	1,100		60	mg/Kg	Dry	100.0	EPA 6010B	EPA 3050B
Moisture, Percent	19		1	00	As Recd	1.000	ASTM D2216/CLP	METHOD

Client Sample ID : 1255SB117 (1.5) Laboratory Sample ID : 288132-003

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Lead	78		1.1	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	17		1	010	As Recd	1.000	ASTM D2216/CLP	METHOD

Client Sample ID : 1255SB118 (1.5) Laboratory Sample ID : 288132-004

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Lead	8.5		1.2	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	18		1	00	As Recd	1.000	ASTM D2216/CLP	METHOD



Lead								
Lab #:	288132	Location: Presidio Bldg 1255 Investigation						
Client:	TRC Solutions	Prep: EPA 3050B						
Project#:	229649.0	Analysis: EPA 6010B						
Analyte:	Lead	Batch#: 246900						
Matrix:	Soil	Sampled: 03/28/17						
Units:	mg/Kg	Received: 03/29/17						
Basis:	dry	Prepared: 04/19/17						

Field ID	Type	Lab ID	Result	RL	Moisture	Diln Fac	Analyzed
1255SB103 (3.0)	SAMPLE	288132-001	120	1.0	3%	1.000	04/20/17
1255SB116 (1.5)	SAMPLE	288132-002	1,100	60	19%	100.0	04/21/17
1255SB117 (1.5)	SAMPLE	288132-003	78	1.1	17%	1.000	04/21/17
1255SB118 (1.5)	SAMPLE	288132-004	8.5	1.2	18%	1.000	04/20/17
	BLANK	QC882405	ND	1.0		1.000	04/20/17

ND= Not Detected RL= Reporting Limit Page 1 of 1



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QC882409

Lead								
Lab #:		288132	Location: H	Presidio Bld	lg 1255 I	Investiga	tion	
Client	:	TRC Solutions	Prep: H	EPA 3050B				
Projec	t#:	229649.0	Analysis: H	EPA 6010B				
Analyte: Lead		Lead	Diln Fac:	1.000				
Field ID:		ZZZZZZZZZZ	Batch#:	246900				
MSS Lab ID: 287		287992-002	Sampled:	04/12/17				
Matrix: Soil		Received: 04/13/17						
Units:		mg/Kg	Prepared:	04/19	/17			
Basis:		as received	Analyzed:	04/20	/17			
Туре	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC882406		50.51	50.44	100	80-120		
BSD	QC882407		50.51	50.68	100	80-120	0	20
MS	QC882408	19.77	51.55	71.21	100	50-131		

53.76

70.39

94

50-131

4

3.0

48



	Moi	sture
Lab #:	288132	Location: Presidio Bldg 1255 Investigation
Client:	TRC Solutions	Prep: METHOD
Project#:	229649.0	Analysis: ASTM D2216/CLP
Analyte:	Moisture, Percent	Batch#: 246908
Matrix:	Soil	Sampled: 03/28/17
Units:	8	Received: 03/29/17
Diln Fac:	1.000	Analyzed: 04/20/17

Field ID	Lab ID	Result	RL	
1255SB103 (3.0)	288132-001	3	1	
1255SB116 (1.5)	288132-002	19	1	
1255SB117 (1.5)	288132-003	17	1	
1255SB118 (1.5)	288132-004	18	1	



		Moisture	
Lab #:	288132	Location:	Presidio Bldg 1255 Investigation
Client:	TRC Solutions	Prep:	METHOD
Project#:	229649.0	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Units:	8
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Туре:	SDUP	Batch#:	246908
MSS Lab ID:	288115-060	Sampled:	04/14/17
Lab ID:	QC882429	Received:	04/18/17
Matrix:	Soil	Analyzed:	04/20/17
MSS Result	Result	RL	RPD Lim
23.34	19.94	1.000	16 26

RL= Reporting Limit RPD= Relative Percent Difference Page 1 of 1



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## Laboratory Job Number 288247 ANALYTICAL REPORT

TRC Environmental Solutions, Inc. Project : 229649.0 55 Second Street San Francisco, CA 94105-3491

Location : Presidio Bldg 1255 Investigation Level : II

Sample ID <u>Sample ID</u> <u>Lab ID</u> 1255SB116 (2.0) 288247-001

<u>Lab ID</u>

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

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Signature: \_

Dina Ali Project Manager dina.ali@ctberk.com (510) 204-2223 Ext 13105

CA ELAP# 2896, NELAP# 4044-001

Date: <u>04/25/2017</u>



#### CASE NARRATIVE

Laboratory number: Client: Project: Location: Request Date: Samples Received: 288247 TRC Solutions 229649.0 Presidio Bldg 1255 Investigation 04/21/17 03/29/17

This data package contains sample and QC results for one soil sample, requested for the above referenced project on 04/21/17. The sample was received on ice and intact.

#### Metals (EPA 6010B):

No analytical problems were encountered.

#### Moisture (ASTM D2216/CLP):

No analytical problems were encountered.

https://mail.google.com/mail/?ui=2&ik=1b741c84b6&view=pt&sear...



CT#288247

Tracy Babjar <tbabjar@montrose-env.com>

Fri, Apr 21, 2017 at 1:02 PM

RE: 229649.0 - C&T Data (288132)

2 messages

Ang, Alfonso <AAng@trcsolutions.com> To: "tracy.babjar@ctberk.com" <tracy.babjar@ctberk.com> Cc: "Hanzel-Durbin, Justin" <JHanzel-Durbin@trcsolutions.com>

Hi Tracy,

I sent the following email to Will Rice, but I have not heard back from him. Can you help me ensure that the requested analysis is logged? Thanks.

Hello Will,

Please analyze the following sample for total lead (dry weight basis) on 48-hour TAT if possible:

1255SB116 [2.0] - Lab ID 051

Alfonso Ang, PE Senior Engineer/Project Manager

T: 415-644-3003 | C: 415-786-7830

aang@trcsolutions.com

From: Tracy Babjar [mailto:tracy.babjar@ctberk.com] Sent: Friday, April 21, 2017 1:00 PM To: Ang, Alfonso <AAng@trcsolutions.com> Subject: 229649.0 - C&T Data (288132)

Hi Alfonso,

Final report and invoice.

https://mail.google.com/mail/?ui=2&ik=1b741c84b6&view=pt&sear...

Have a great day!

Tracy

Please find attached the following files:

Invoice

PDF Deliverable

Email was also sent to: apinvoiceapproval@trcsolutions.com, jhanzel-durbin@trcsolutions.com

C&T sends its e-reports via the Internet as Portable Document Format (PDF) files. Reports in this format, when accompanied by a signed cover page, are considered official reports. <u>No hardcopy reports will be sent</u> either by fax or U.S. Postal Service unless otherwise requested. You may distribute your PDF files electronically or as printed hardcopies, as long as they are distributed in their entirety.

 Tracy Babjar <tracy.babjar@ctberk.com>
 Fri, Apr 21, 2017 at 1:12 PM

 To: "Ang, Alfonso" <AAng@trcsolutions.com>
 Cc: "Hanzel-Durbin, Justin" <JHanzel-Durbin@trcsolutions.com>, Will Rice <will.rice@ctberk.com>

Hi Alfonso,

Will has been stuck in a meeting.

I will get that logged in for you now.

Have great day!

Tracy [Quoted text hidden]

Tracy Babjar Project Manager Curtis & Tompkins, Ltd. 510 204-2226 www.curtisandtompkins.com





6 of 13



7 с

7 of 13





# Detections Summary for 288247

Results for any subcontracted analyses are not included in this summary.

Client : TRC Solutions Project : 229649.0 Location : Presidio Bldg 1255 Investigation

Client Sample ID : 1255SB116 (2.0) Laboratory Sample ID : 288247-001

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Lead	540		1.1	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	18		1	010	As Recd	1.000	ASTM D2216/CLP	METHOD



	L	ead
Lab #:	288247	Location: Presidio Bldg 1255 Investigation
Client:	TRC Solutions	Prep: EPA 3050B
Project#:	229649.0	Analysis: EPA 6010B
Analyte:	Lead	Batch#: 247098
Field ID:	1255SB116 (2.0)	Sampled: 03/28/17
Matrix:	Soil	Received: 03/29/17
Units:	mg/Kg	Prepared: 04/25/17
Basis:	dry	Analyzed: 04/25/17
Diln Fac:	1.000	

Type	Lab ID	Result	RL	Moisture
SAMPLE	288247-001	540	1.1	18%
BLANK	QC883148	ND	1.0	

ND= Not Detected RL= Reporting Limit Page 1 of 1



		L	ead				
Lab #:	288247		Location: Pre	esidio Bl	dg 1255	Investigation	
Client:	TRC Solutions		Prep: EPA	A 3050B			
Project#:	229649.0		Analysis: EPA	A 6010B			
Analyte:	Lead		Diln Fac:	1.00	0		
Field ID:	1255SB116 (2.0)		Batch#:	2470	98		
MSS Lab ID:	288247-001		Sampled:	03/2	8/17		
Matrix:	Soil		Received:	03/2	9/17		
Units:	mg/Kg		Prepared:	04/2	5/17		
Basis:	dry		Analyzed:	04/2	5/17		
Type Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture RPD	Lim
BS 0C883149		4 902	4 835	99	80-120		

TIPC		MDD RCDUIC	opinea	Repute	ORLEC	HTWIT CD	HOIDCUIC I		
BS	QC883149		4.902	4.835	99	80-120			
BSD	QC883150		4.808	4.716	98	80-120	-	1	20
MS	QC883151	540.3	6.557	602.1	942 NM	50-131	18%		
MSD	QC883152		5.646	822.6 >LR	4999 NM	50-131	18% 1	NC	48

NC= Not Calculated NM= Not Meaningful: Sample concentration > 4X spike concentration >LR= Response exceeds instrument's linear range RPD= Relative Percent Difference Page 1 of 1



		Moisture	
Lab #:	288247	Location:	Presidio Bldg 1255 Investigation
Client:	TRC Solutions	Prep:	METHOD
Project#:	229649.0	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Diln Fac:	1.000
Field ID:	1255SB116 (2.0)	Batch#:	247080
Lab ID:	288247-001	Sampled:	03/28/17
Matrix:	Soil	Received:	03/29/17
Units:	8	Analyzed:	04/25/17
Result	RT.		
18	1		



		Moisture	
Lab #:	288247	Location:	Presidio Bldg 1255 Investigation
Client:	TRC Solutions	Prep:	METHOD
Project#:	229649.0	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Units:	8
Field ID:	1255SB116 (2.0)	Diln Fac:	1.000
Type:	SDUP	Batch#:	247080
MSS Lab ID:	288247-001	Sampled:	03/28/17
Lab ID:	QC883094	Received:	03/29/17
Matrix:	Soil	Analyzed:	04/25/17
MSS Result	Result	RL	RPD Lim
18.09	18.40	1.000	2 26

RL= Reporting Limit RPD= Relative Percent Difference Page 1 of 1



and setting to the

H



Laboratory Job Number 288386 ANALYTICAL REPORT

TRC SolutionsProject505 Sansome StLocationSan Francisco, CA 94111Level	: 229649 : 1255-1256 Sampling at lendrum : II
--	---

<u>Sample ID</u>	<u>Lab ID</u>
1255SB116[3.5]	288386-001
DUP042617-01	288386-002
1255SB120[1.0]	288386-003
1255SB120[2.0]	288386-004
1255SB121[1.0]	288386-005
1255SB121[2.0]	288386-006

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Will Ake

Signature:

Will Rice Project Manager will.rice@ctberk.com (510) 204-2221 Ext 13102

CA ELAP# 2896, NELAP# 4044-001

Date: <u>05/01/2017</u>



#### CASE NARRATIVE

Laboratory number: Client: Project: Location: Request Date: Samples Received: 288386 TRC Solutions 229649 1255-1256 Sampling at lendrum 04/26/17 04/26/17

This data package contains sample and QC results for six soil samples, requested for the above referenced project on 04/26/17. The samples were received cold and intact.

#### Metals (EPA 6010B):

No analytical problems were encountered.
Por Carlor	Chain of Custody #													🤶 RECEIVED BY:	DATE: 12 C TIME: 1) 41	DATE: TIME:	DATE: TIME:
CHAIN OF CUSTODY	Intersities Aboratory Iness Since 1878 C&I LOGIN # 28838	10) 486-0900 10) 486-0532 moler: Partick WoodS	port To: Alterise Ang mpany: TRC	eprione: 712/271-200 Anilians com		<u>)</u> <u>9</u> + <u></u> <u>4</u> Noue Noue HXO3 HXO3 HC1 HC1 HC1 Moter Soliq Moter	X X / / X / /			//23 × / X × X	X X / X X				Partin War Date: 1/4/AIME: 1/49	BATE: U DATE: U DATE: U DATE: U DATE:	DATE: TIME:
	CC Curtis & Tompkins Labo Environmental analytical testing I mbus	2323 Fifth Street Phone (5) Berkeley, CA 94710 Fax (5) Project No. 27 @ X 4/ @ Say	Project Name: 125-1256 Sumpling at Level 146	EDD Formar:       Keport Levelu II       III       III       V       Levelu II       III       V       Levelu II       III       Levelu II       Levelu III       Levelu IIII       Levelu III       Levelu IIII       Levelu IIIIIII       Levelu IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Somple ID.	No. Date Collected	125550116 [3.5] 4/26/17	07672/2-21	7 22 5 B(20 (20)	12555612 [1.0]	A [0.2] 12/855521			Notes:	Emples are to be RECEIPT	ary weight corrected acold	On Ice

3 of 7

1. Did cooler come with a shipping slip (airbill, etc)       YES         Shipping info	Date Opened <u>4.26.17</u> Date Logged in Date Labelled	By (print) By (print) By (print)	(sign) (sign) (sign)	
2A. Were custody seals present?	1. Did cooler come with a Shipping info	shipping slip (airbill, etc)	YES NO	
□ Bubble Wrap       □ Foam blocks       □ Bags       □ None         □ Cloth material       □ Cardboard       □ Styrofoam       □ Paper towels         7. Temperature documentation:       * Notify PM if temperature exceeds 6°C       ✓         Type of ice used:       ✓ Wet       □ Blue/Gel       □ None       Temp(°C)       ✓         □ Temperature blank(s) included?       □ Thermometer#       ✓ IR Gun#       Ø         □ Samples received on ice directly from the field. Cooling process had begun       8.         8. Were Method 5035 sampling containers present?       YES       ✓         If YES, what time were they transferred to freezer?       YES       NO         9. Did all bottles arrive unbroken/unopened?       ✓       ✓       NO         12. Are sample labels present, in good condition and complete?       ✓       NO         13. Do the sample labels agree with custody papers?       ✓       NO         14. Was sufficient amount of sample sent for tests requested?       ✓       YES       NO         15. Are the samples appropriately preserved?       ✓       ✓       NO         16. Did you check preservatives for all bottles for each sample?       ✓       ✓       NO         16. Did you change the hold time in LIMS for unpreserved VOAs?       ✓       ✓       ✓       ✓	<ul> <li>2A. Were custody seals pr How many</li> <li>2B. Were custody seals int</li> <li>3. Were custody papers dry</li> <li>4. Were custody papers fill</li> <li>5. Is the project identifiable</li> <li>6. Indicate the packing in c</li> </ul>	esent? [] YES (circle) Name act upon arrival? act upon arrival? and intact when received? ed out properly (ink, signed, e from custody papers? (If so	on cooler on samples Date YES NO etc)? fill out top of form) TES NO	NO NZAS
Type of ice used:       Wet       Blue/Gel       None       Temp(°C) <ul> <li>Temperature blank(s) included?</li> <li>Thermometer#</li> <li>IR Gun#</li> <li>Samples received on ice directly from the field. Cooling process had begun</li> </ul> 8. Were Method 5035 sampling containers present?       YES         If YES, what time were they transferred to freezer?       YES         9. Did all bottles arrive unbroken/unopened?       YES         10. Are there any missing / extra samples?       YES         11. Are samples in the appropriate containers for indicated tests?       NO         12. Are sample labels present, in good condition and complete?       NO         13. Do the sample labels agree with custody papers?       NO         14. Was sufficient amount of sample sent for tests requested?       YES       NO         15. Are the samples appropriately preserved?       YES       YES       NO         16. Did you check preservatives for all bottles for each sample?       YES       YES       NO         17. Did you document your preservative check? (pH strip lot#       ) YES       YES       NO         18. Did you change the hold time in LIMS for upreserved VOAs?       YES       YES       NO         18. Did you change the hold time in LIMS for preserved terracores?       YES       YES       NO	Bubble Wrap Cloth material 7. Temperature documentat	□ Foam blocks □ Cardboard ion: * Notify PM if term	ags INone tyrofoam IPaper towels	
<ul> <li>8. Were Method 5035 sampling containers present?YES If YES, what time were they transferred to freezer?</li></ul>	Type of ice used: Temperature blank Samples received o	Wet 🗌 Blue/Gel 🔲 (s) included? 🗌 Thermometer n icc directly from the field.	None Temp(°C) / /	
OMMENTS	<ol> <li>8. Were Method 5035 samp If YES, what time were 9. Did all bottles arrive unbr 10. Are there any missing / e 11. Are samples in the appropriation 12. Are sample labels present 13. Do the sample labels agree 14. Was sufficient amount of 15. Are the samples appropriation 16. Did you check preservative 17. Did you check preservative 17. Did you change the hold to 19. Did you change the hold to 20. Are bubbles &gt; 6mm absent 21. Was the client contacted control of 21. Was the client contacted control of 22. Are State Comments</li> </ol>	ling containers present? ere they transferred to freezer oken/unopened? extra samples? priate containers for indicated t, in good condition and comp ee with custody papers? "sample sent for tests request ately preserved? ves for all bottles for each sar reservative check? (pH strip ime in LIMS for unpreserved te t in VOA samples? oncerning this sample deliver ed?By	YES         Y	

4 of 7



1.000 EPA 6010B EPA 3050B

# Detections Summary for 288386

Results for any subcontracted analyses are not included in this summary.

Client : TRC Solutions Project : 229649 Location : 1255-1256 Sampling at lendrum

Client Sam	ple ID :	1255SB11	6[3.5]		Laborat	288386-001				
Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method		
Lead	11		1.2	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B		
					·					
Client Sam	ple ID :	DUP04261	7-01	L	aborato	288386-002				
Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method		
Lead	7.6		1.2	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B		
Client Sam	ple ID :	1255SB12	0[1.0]		Laborat	ory Sam	ple ID :	288386-003		
Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method		
Lead	160		1.2	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B		
Client Sam	ple ID :	1255SB12	0[2.0]		Laborat	ory Sam	ple ID :	288386-004		
Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method		
Lead	750		58	mg/Kg	Dry	100.0	EPA 6010B	EPA 3050B		
Client Samp	ple ID :	1255SB12	1[1.0]		Laborat	ory Sam	ple ID :	288386-005		
Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method		
Lead	82		1.1	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B		
Client Samp	ple ID :	1255SB12	1[2.0]	Ilnite	Laborat	ory Sam	ple ID :	288386-006		
Analyce	NEBUIL	I Lays		UTITCB	Dabib		method			

1.2 mg/Kg Dry

Lead

130

6.1



1.000 1.000

1.2

1.0

15%

		Lead			
Lab #:	288386	Location:	1255-1256 Sampl:	ing at len	drum
Client:	TRC Solutions	Prep:	EPA 3050B		
Project#:	229649	Analysis:	EPA 6010B		
Analyte:	Lead	Sampled:	04/26/17		
Matrix:	Soil	Received:	04/26/17		
Units:	mg/Kg	Prepared:	04/28/17		
Basis:	dry	Analyzed:	04/28/17		
Batch#:	247259				
Field ID	Type Lab ID	Result	RL	Moisture	Diln Fac
1255SB116[3.5]	SAMPLE 288386-001	11	1.2	15%	1.000
DUP042617-01	SAMPLE 288386-002	7.6	1.2	14%	1.000
1255SB120[1.0]	SAMPLE 288386-003	160	1.2	16%	1.000
1255SB120[2.0]	SAMPLE 288386-004	750	58	17%	100.0
1255SB121[1.0]	SAMPLE 288386-005	82	1.1	13%	1.000

130

ND

SAMPLE 288386-006

BLANK QC883767

ND= Not Detected RL= Reporting Limit Page 1 of 1

1255SB121[2.0]

2.2



#### Batch QC Report

		Lead		
Lab #:	288386	Location: 1255	-1256 Sampling at l	.endrum
Client:	TRC Solutions	Prep: EPA	3050B	
Project#:	229649	Analysis: EPA	6010B	
Analyte:	Lead	Diln Fac:	1.000	
Field ID:	ZZZZZZZZZ	Batch#:	247259	
MSS Lab ID:	288320-001	Sampled:	04/24/17	
Matrix:	Soil	Received:	04/24/17	
Units:	mg/Kg	Prepared:	04/28/17	
Basis:	as received	Analyzed:	04/28/17	
Type Lab ID	MSS Result	Spiked Resul	t %REC Lin	nits RPD Lim

туре	Lab ID	MSS Result	spiked	Result	3REC	LIMICS	RPD	ытш
BS	QC883768		49.50	49.67	100	80-120		
BSD	QC883769		48.54	48.72	100	80-120	0	20
MS	QC883770	4,253	53.19	2,725 >LR	-2872 NM	50-131		
MSD	QC883771		46.73	3,219 >LR	-2212 NM	50-131	NC	48

Appendix B

Buildings 1255 and 1256 Area Lead Risk Evaluation Pro UCL

	А	В	C	D	E	F	G	Н		J	К	L		
					B UCL Stati	uilding 1255 stics for Unce	and 1256 Are ensored Full I	ea Data Sets						
1														
2		User Sele	ected Options											
3	D	ate/Time of C		ProUCL 5.15	5/15/2017 8:30	):54 AM								
4			From File	WorkSheet.x	ls									
6		Fi	ull Precision	OFF										
7		Confidence	Coefficient	95%										
8	Numbe	r of Bootstrap	Operations	2000										
9														
10														
11	Lead													
12														
13	General Statistics													
14			lot	al Number of	Observations	14			Numb	er of Distinct	Observations	14		
15					Minimaruna	6			NUMD	er of Missing	Observations	0		
16					Maximum	130					Median	49.01		
17					SD	42 74				Std	Frror of Mean	11 42		
18				Coefficier	nt of Variation	0.862				Old.	Skewness	0.503		
20														
20	21 Normal GOF Test													
22	2 Shapiro Wilk Test Statistic 0.849 Shapiro Wilk GOF Test													
23	23 5% Shapiro Wilk Critical Value 0.874 Data Not Normal at 5% Significance Level													
24				Lilliefors	Test Statistic	0.22			Lilliefors	GOF Test				
25				5% Lilliefors	Critical Value	0.226		Data app	ear Normal a	t 5% Significa	ance Level			
26				Dat	ta appear App	proximate No	rmal at 5% Si	ignificance Le	evel					
27														
28					A	ssuming Norr	nal Distributio	on						
29			95% No		identia t LICI	60.94	95% UCLS (Adjusted for Skewness)							
30				95% Sil	Idents-LUCL	09.64			95% Adjus		(Chen-1995)	70.04		
31											51113011 <del>-</del> 1370)	70.03		
32						Gamma	GOF Test							
33				A-D	Test Statistic	0.808		Ande	rson-Darling	Gamma GO	F Test			
35				5% A-D	Critical Value	0.756		Data Not Gar	nma Distribut	ed at 5% Sig	nificance Leve	1		
36	K-S Test Statistic 0.226 Kolmogorov-Smirnov Gamma GOF Test													
37				5% K-S	Critical Value	0.234	Detect	ted data appe	ar Gamma Di	istributed at 5	% Significance	e Level		
38				Detected	data follow Ap	opr. Gamma I	Distribution at	t 5% Significa	ance Level					
39	39													
40						Gamma	Statistics							
41					k hat (MLE)	1.189	k star (bias corrected MLE)							
42				The	eta hat (MLE)	41./2	Theta star (bias corrected MLE) 50							
43				MIE Maan /h:	nu nat (MLE)	33.3 10.61	nu star (bias corrected) 27							
44			ľ	w∟⊏ wean (bi	as corrected)	49.0 I			Approvince	wi∟⊑ 30 (D		16.54		
45									whhioxima	te oni oquari	e value (0.05)	10.04		

	А	В	C	D	E	F	G	Н		J	К	L
46			Adj	usted Level of	Significance	0.0312				Adjusted Chi S	quare Value	15.42
47												
48					As	suming Gam	ma Distributi	on				
49		95% Appro	ximate Gamn	na UCL (use v	when n>=50))	82.49		95%	Adjusted Gar	mma UCL (use	when n<50)	88.48
50												
51						Lognorma	GOF Test					
52				Shapiro Wilk	Test Statistic	0.883		Sha	piro Wilk Log	gnormal GOF T	est	
53			5%	Shapiro Wilk	Critical Value	0.874		Data appea	ar Lognorma	l at 5% Significa	ance Level	
54	Elilietors rest Statistic 0.231 Elilietors Lognormal GOF 16St											
55	5% Lilliefors Critical value 0.226 Data Not Lognormal at 5% Significance Level											
56	56 Data appear Approximate Lognormal at 5% Significance Level											
57												
58				Minimum of	La sua d Data	Lognorma	I Statistics			M	la sua d Data	2 420
59				Maximum of	Logged Data	1.792					logged Data	3.428
60	) Maximum of Logged Data 4.868 SD of logged Data 1.093									1.093		
61	Assuming Lognormal Distribution											
62										102.2		
63			05%	Chebyshev		126.1						103.2
64			907	6 Chebyshev		220.4						
65												
66					Nonnaram	etric Dietribut	ion Free LICI	Statistics				
67												
68												
69					Nonna	rametric Dist	ribution Free	UCLS				
70				9	5% CLT UCL	68.4		0020		95% Ja	ckknife UCI	69 84
71			959	% Standard B	ootstran UCI	67.39				95% Boo	tstrap-t UCI	69 74
72				95% Hall's B	ootstrap UCL	67.25			95%	% Percentile Bo	otstrap UCL	67.89
75				95% BCA B	ootstrap UCL	69.25						
74			90% C	Chebyshev(Me	ean, Sd) UCL	83.87			95% (	Chebyshev(Me	an, Sd) UCL	99.4
75			97.5% (	Chebyshev(Me	ean, Sd) UCL	120.9			99% (	Chebyshev(Me	an, Sd) UCL	163.3
70					. ,						. ,	
78						Suggested	UCL to Use					
79				95% Sti	Ident's-t UCL	69.84						
80												
81			When	a data set foll	ows an approx	kimate (e.g., r	normal) distrib	oution passing	g one of the C	GOF test		
82	2 When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL											
83												
84		Note: Sug	gestions rega	arding the sele	ection of a 959	% UCL are pro	ovided to help	the user to s	elect the mo	st appropriate 9	95% UCL.	
85				Recommend	dations are ba	sed upon dat	a size, data d	istribution, an	id skewness.			
86		These re	ecommendation	ons are based	upon the res	ults of the sim	ulation studie	s summarize	d in Singh, N	laichle, and Lee	e (2006).	
87		However, si	imulations res	ults will not co	over all Real V	Vorld data set	s; for additior	nal insight the	user may wa	ant to consult a	statistician.	
88												

Appendix C

**Forest Area Photographs** 

**FOREST AREA** Building 1255 and 1256 Lendrum Court Presidio of San Francisco, San Francisco, CA



Photograph 2 Forest Area Looking from Bldg. 1256 NE Corner



### FOREST AREA Building 1255 and 1256 Lendrum Court Presidio of San Francisco, San Francisco, CA



Page 2 of 4



### FOREST AREA Building 1255 and 1256 Lendrum Court Presidio of San Francisco, San Francisco, CA



	Page 3 of 4	
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# FOREST AREA Building 1255 and 1256 Lendrum Court Presidio of San Francisco, San Francisco, CA

