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Via E-Mail:

September 14, 2015

Mr. Colby Northridge
Ms. Lauren Brewer
Project Manager
Oakland International Housing Partner, L.P.
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Subject: **Step-Out Soil Investigation Report**
94th and International Blvd., Oakland, CA
9400-9500 International Blvd. | Oakland, California

Dear Mr. Northridge:

At your request, Applied Remedial Services, Inc. (ARS) has prepared the following Step-Out Soil Investigation Report (SIR) to present the findings of additional soil sampling activities at the properties located on 9400-9500 International Blvd. in Oakland, CA (the "Site"). The assessment was conducted as a result of the earlier Final Soil Investigation Report which was conducted on July 26, 2015 due to the proposed development of the site and the generation of a soil stockpile from mass and structural excavations on the property.

During the earlier investigation, ARS advanced nine (9) borings at the site and collected twenty seven (27) soil samples from various depths between two (2) feet and ten (10) feet beneath the ground surface (bgs). The samples were analyzed for a myriad of analytes, Lead was found to be the major contaminant of concern (COC). During the current investigation, twenty four (24) soil borings were advanced around the borings that contained Lead at elevated levels during the first investigation and three (3) borings were advanced in an alley that extended from the site to Holley Street to the east.

We appreciate the opportunity to provide this report of findings to you for this project. **Should you have any questions or comments, please do not hesitate to contact me at (925) 943-7742 (Office) or (707) 567-2202 (Cell) or E-mail me @ mmkara707@aol.com.**

Sincerely,

Michael F. Kara
Principal Toxicologist
Registered Environmental Property Assessor # 386340
Registered Lead Sampling Technician # 21985

cc **Mr. Larry Cochran, CRM**

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SOIL INVESTIGATION REPORT

94th AND INTERNATIONAL BOULEVARD
9400-9500 INTERNATIONAL BOULEVARD | OAKLAND, CA

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September 14, 2015

STEP-OUT SOIL INVESTIGATION REPORT

94th AND INTERNATIONAL BOULEVARD
9400-9500 INTERNATIONAL BOULEVARD | OAKLAND, CA

1.0 INTRODUCTION

At the request of Applied Remedial Services, Inc. (ARS) client (Related California), ARS has prepared the following Step-Out secondary Soil Investigation Report (SIR) to convey the results of soil sampling activities at the 94th and International property located on 9400-9500 International Blvd. in Oakland, CA (the "Site") (Figure 1). The assessment was conducted as a result of the earlier Final Soil Investigation Report which was conducted on July 26, 2015 due to the proposed development of the site and the generation of a soil stockpile from mass and structural excavations on the property.

During the earlier investigation, ARS advanced nine soil (9) borings at the site and collected twenty seven (27) soil samples from various depths between two (2) feet and ten (10) feet beneath the ground surface (bgs) (Figure 2). The samples were analyzed for a myriad of analytes, which included Petroleum Hydrocarbons, Volatile Organic Compounds, Semi-Volatile Organic Compounds, Heavy Metals, Pesticides, Asbestos, and Polychlorinated Biphenyls (PCBs).

Lead was found to be the major contaminant of concern (COC), minor hits of chlorinated pesticides and other heavy metals were also detected above the Regional Water Quality Control Board's Environmental Screening Levels (ESLs), and these are discussed in the following section of the report. During the current investigation, twenty four (24) soil borings were advanced around the borings that contained Lead at elevated and hazardous waste levels during the first investigation, and three (3) borings were advanced in an alley that extended from the site to Holley Street located to the east of the Site.

2.0 PREVIOUS INVESTIGATION

ARS advanced nine soil (9) borings at the site and collected twenty seven (27) soil samples from various depths ranging between two (2) feet and ten (10) feet beneath the ground surface (bgs). The samples were analyzed for petroleum hydrocarbon related compounds (PHCs) such as TPHg (gasoline), TPHd (diesel) and TPHmo (motor oil), heavy metals, polychlorinated biphenyls (PCBs), volatile organic compounds (VOCs), semi-volatile

organic compounds (SVOCs), chlorinated pesticides and asbestos containing materials (ACM) in order to characterize the soil for offsite disposal.

The assessment was conducted as a result of future soil stockpile generation from the excavation of foundation members and a garage at the site as part of the structural and mass excavations at the property.

Considering that the Site will undergo a large subsurface excavation, significant amount of soil will have to be exported; potential environmental contaminants may be potentially present in the soil based on the prior use of the site. ARS advanced nine (9) spatially distributed borings at the property (Figure 2). The locations of the borings were chosen based on the following reasons:

1) Issues were discovered during conducting a Phase I Environmental Site Assessment in June 2015 at the site;
2) Collecting six (6) soil samples from two (2) borings which were advanced by the geotechnical firm Rockridge Geotechnical (RG);
3) Conversations with Consulting Associates of California (CAC) which was conducting an Asbestos and Lead paint survey of the structures at the Site in late June 2015; and
4) ARS' observations of irregular topography and physiochemical conditions at the Site which were discovered during a site walk.

As a result of the previously mentioned reasons ARS advanced nine (9) soil borings to ten (10) feet below ground surface (bgs).

The data from the soil boring investigation would be utilized to assess:

1) Current contaminant levels in subsurface soil;
2) Profile soil in place for offsite disposal/recycling options; and
3) Evaluate the need if any, for any personal protective clothing by construction workers involved in subsurface foundation construction activities.

2.0 SITE DESCRIPTION

2.1 Location and Legal Description

The Property is located in a mixed commercial/residential of southeast Oakland, with primarily commercial land use along International Boulevard and single family residential land use east and west away from International Boulevard. According to the USGS 7.5-

Minute Quadrangle, San Leandro, California Map, the Property lies on a gently west-southwest sloping plan approximately 2.0 miles east from the San Leandro Bay and 1.5 miles southwest from the Oakland Hills. Based on topography and location, we would expect groundwater flow in the site area to be to the west.

The Property is includes three commercial buildings which are generally dilapidated and either not in use or marginally used.

Address	APN #	Business/Latest Occupancy
9500-9502 International Blvd	46-5423-18-2	Main Clinic (drug rehabilitation clinic) Exam
9442 International Blvd	46-5423-19	Rooms and clinic physician offices Food
9440 International Blvd	46-5423-19	Giveaway Building
9434 International Blvd	46-5423-20	De Calores Restaurant (Unoccupied) Eleganthia
9430 International Blvd	46-5423-20	(furniture store) Easement to Hawthorne Street
9428 International Blvd	46-5423-21	Apartment Bldg, (has approx. 6 units)
9426 International Blvd	46-5423-21	Duplex (unoccupied/condemned
9424 International Blvd	46-5423-22	Church parking lot Church (formerly bank)
9414, 9418, 9420 International Blvd	46-5423-2-2	
& and 1424 94th	46-5423-2-2	
9400 International Blvd	46-5423-1-1	
No Specific Address between 9419 & 9425 Holley Street	46-5423-7	

The Site is bordered by the following properties:

North	Northwest from the Property are various commercial businesses along International Boulevard. Northeast from the Property are residential
East	East from the Property are residential properties.
South	South from the Property on both sides of International Boulevard is a Hispanic grocery store/restaurant. Further south along International Boulevard are various commercial businesses.
West	West from the property across International Boulevard are various vacant and commercial/retail properties, followed by residential

2.2 Site Specific Information

The addresses for the Property include even-numbered addresses between 9400 and 9500 International Boulevard (formerly East 14th Street), Oakland, California, 94603 (see Figure 1 and Figure 2). The Property encompasses a nominally rectangular land parcel measuring approximately 316 feet by 150 feet located on the east side of International Boulevard between 94th Avenue and 96th Avenue in Oakland, Alameda County, California and a narrow alley that extends from the eastern side of the property at midway to the east towards Holley Street. The Property is located at an elevation of approximately 30 feet above mean sea level. The Property is located at latitude of 37° 44' .49.20" North, and longitude of 122° 10' 18.84" West, and the assessor's parcel numbers for the Property are:

Address	**APN**
9400 International	046-5423-1-1
9414, 9418, 9420 International and 1424 94th	046-5423-2-2
9424 International	046-5423-22
9426, 9428 International	046-5423-21
9430, 9434 International	046-5423-20
9440, 9442 International	046-5423-19
9500, 9502 International	046-5423-18-2
No address but between 9419 and 9425 Holly Street	046-5423-7

2.3 Site and Vicinity General Characteristics

The Property is located in a mixed commercial/residential of southeast Oakland, with primarily commercial land use along International Boulevard and single family residential land use east and west away from International Boulevard. The Project Site is comprised of thirteen individual addresses and five buildings located within a city block bounded by 94th Avenue to the north, 96th Avenue to the south and International Boulevard directly to the west. Holly Street bounds the block to the east side.

During the site reconnaissance, we conducted a drive-by inspection of areas surrounding

the Property. The purpose of the site area reconnaissance was to identify sites in the vicinity that may pose a risk to the Property environment.

The Property is located in a mixed commercial/residential of southeast Oakland, with primarily commercial land use along International Boulevard and single family residential land use east and west away from International Boulevard. According to the USGS 7.5-Minute Quadrangle, San Leandro, California Map, the Property lies on a gently west-southwest sloping plan approximately 2.0 miles east from the San Leandro Bay and 1.5 miles southwest from the Oakland Hills. Based on topography and location, we would expect groundwater flow in the site area to be to the west.

2.4 Description of Property Structures and Improvements

The Property currently includes three relatively old commercial building structures in various states of disrepair. Storage and/or parking areas are present on the east side of the Property. East Bay Municipal Utility District (EBMUD) supplies the drinking water to the site. Gas and Electricity are provided to the Property by Pacific Gas & Electric Company (PG&E). Trash service for the Property is provided by Waste Management.

2.5 Physical Setting

The Site elevation is approximately 31 feet above mean sea level. According to the East Bay Plain Groundwater Basin Beneficial Use Evaluation Report from the Cal-RWQCB, June 1999, the site is located within the Oakland Sub-area of the East Bay Plain of the San Francisco Basin. The Oakland Sub-area contains a sequence of alluvial fans. The alluvial fill thickness ranges from 300 to 700 feet deep.

Soils in this region are typically underlain by silts and clays with 1 to 10 foot thick intervals of sand to a total depth of 30-feet below ground surface (bgs). Typically 3 to 7 feet of sand are encountered in this area during soil boring investigations. Regional lithology consists typically of an upper one or two feet layer of fill. Layers of silts and usually detected beneath the fill and range from two to ten feet bgs. Sands and silty clayey

sands are typically encountered at depths ranging from approximately eight to eighteen feet bgs. Silts and clays are usually observed in between 15-20 feet bgs. Sands, silty and clayey soils have been generally documented from 20 to 30 feet bgs.

2.6 Previous Site uses

From Sanborn maps of the Site area, it appears that there was a history of a bank, multiple apartment complexes, residential dwellings and some store fronts. The maps do not indicate the presence of industrial or heavy commercial activities at the Site.

Commercially available databases included two Property listings: (1) Acts Full Gospel Church at 9400 International Boulevard is included on the HAZNET list; and (2) Elmhurst Cleaners & Laundromat at 9434 East 14th Street (currently International Boulevard) is included on the EDR Historical Cleaners list. The HAZNET listing for Acts Full Gospel Church refers to the lawful offsite disposal of 0.54 tons of oil/water separator sludge. This listing, by itself, does not indicate a significant environmental concern for the Property. The EDR Historical Cleaners listing for Elmhurst Cleaners & Launderette includes a date of 1967. Potential dry cleaning solvent (Stoddard solvent or Tetrachloroethene) releases from this cleaner could have impacted soil beneath the Property.

A small fenced area measuring 15 feet by 12 feet along the eastern side behind the Church in the parking lot shown on photo 2 contained evidence of petroleum, grease, paint stains and corrosion on approximately six square feet of concrete floor. There were marks on the floor that resembled a 75-100 gallon rectangular steel structure like an aboveground tank that appeared to containerize oil and grease and there were signs of discharge on the concrete slab within this area of the parking lot. There was a rancid odor emanating from this area that reeked like a mixture of old decayed refuse and petroleum compounds.

Finally, one possible recognized environmental condition (REC) from historical offsite properties and businesses was detected. Historical Sanborn Maps indicate the presence of

an electric train system (Oakland Traction Company and Key System Transit Company) facility just east of the Property, covering the east half of the city-block. This facility was present from at least 1896 to 1939 and included a machine shop, a repair shop, electric generation equipment, electric car barns, and cooling ponds. However this property was not listed as a site. It is possible that some solvents, oils, and lubricants might have been used at this facility and may have impacted environmental conditions to the east of the property.

2.7 Sites in the vicinity of the Property with Environmental Issues

The following sites are further discussed because of their proximity to the site (0 to 1/8 mile) and higher or equal elevation to the subject site with respect to the potential for contaminant migration by surface- water and/or groundwater pathways. Regional groundwater flow in the area of the subject property is toward the west. Surface water flow presumably follows regional topography, which slopes to the west.

2.8 Akxner Construction, 9512 Plymouth Street

AKXNER Construction is a small quantity generator (SQG). The facility is on the RCRA SQC list which is a designation for companies that generate, store, treat, transport and/or dispose of hazardous waste as defined by RCRA. The site has no violations found and does not handle fuel oil but is listed as handling organic solids. The site activities are not believed to pose a potential for migration of pollution to the subject site.

2.9 Gas Station, 9000 East 14th Street

This site is listed on the Leaking Underground Storage Tank (LUST) CORTESE and CS listing. The leaking underground fuel tank (LUFT) leaked in 1993. Subsurface investigations discovered the leak in 1994 and reported closed in approximately 1996. The site has a case closed status from 1996, # 01 2131. The site activities are not believed to pose a potential for migration of pollution to the subject site.

2.10 BJA Inc. Gas Station, 9800 International Blvd

BJA is a gas station site that was installed in 1973. The site has three underground gas storage tanks and one used oil tank. The site is on the Historical UST listing. The current status of the site is that pollution characterization is ongoing. The site activities are not believed to pose a potential for migration of pollution to the subject site.

2.11 ARCO #02185, 9800 East 14m Street

This gas station is on the CORTESE, LUST and UST listings for an underground gas storage tank and MTBE. The current status of the site is that pollution characterization is ongoing. The site activities are not believed to pose a potential for migration of pollution to the subject site.

2.12 Pacific Bell, 8925 Holly Street

Pacific Bell is a small quantity generator (SQG). The facility is on the RCRA SQG list which is a designation for companies that generate, store, treat, transport, and/or dispose of hazardous waste as defined by RCRA. The site has no violations reported. The site activities are not believed to pose a potential for migration of pollution to the subject site.

3.0 INVESTIGATION REPORT ELEMENTS

The investigation report was drafted to describe the process involved with advancing twenty four (24) soil borings (SB-1-SO-10-S, SB-1-SO-20-S, SB-1-SO-10-N, SB-1-SO-20-N, SB-1-SO-10-E, SB-1-SO-20-E, SB2-SO-10-N, SB2-SO-20-N, SB2-SO-10-W, SB2-SO-20-W, SB2-SO-25-E, SB8-SO-10-W, SB8-SO-20-W, SB2-SO-10-E, SB2-SO-20-W, SB11-2.0, SB12-2.0, SB10-2.0, SB1-F-4.0, SB3-SO-10-E, SB3-SO-10-N, SB3-SO-20-N, SB3-SO-20-E, SB3-SO-20-S) that were installed on the property and were sampled by ARS at two (2) feet bgs (Figure 2). The laboratory analyzed the discrete samples, the results are presented in Table 1.

The analyte (Lead) that was tested was the likely contaminant that you would expect at a property similar to this site and have been shown from the previous study to be the primary contaminant of concern (COC). The contaminants that ARS, Inc. had searched

for in the previous study were Petroleum Hydrocarbon Compounds (PHCs), gasoline (TPHg), diesel (TPHd), motor oil (TPHmo), and their aromatic and oxygenated components, Benzene, Toluene, Ethylbenzene, Xylene(s) and MTBE, Polychlorinated Biphenyls (PCBs), Heavy Metals, Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs), Lead, CAM 17 Heavy Metals, Asbestos Containing Materials (ACMs), Chlorinated Pesticides and Chlorinated Herbicides. Every hazardous waste contaminant on the Environmental Protection Agency (EPA) list of primary pollutants that could exist at a site was tested for. Lead was found to be the only contaminant of concern detected consistently at hazardous waste levels

The borings were located within the previous hazardous waste areas in order to delineate the lateral extent of Lead at these areas, future footprint of the proposed new building at the Site (Figure 3) and at locations that we detected anomalies in topography and physical signs of discharge or masses of construction debris that was discarded at the property.
All tasks were conducted in accordance with the approved proposal and with all applicable regulatory guidelines and statutes.

3.1 Pre-field Activities

ARS visited the Site and collected the soil samples on August 17, 2015, since the vertical extent of the boring was limited to two (2) feet bgs, the Alameda County Public Works Agency-Water Resources was not contacted for a drilling permit. An underground survey of the locations of the borings was conducted prior to drilling. Prior to initiating sampling activities, a Site Safety Plan was prepared, and a tailgate safety meeting was conducted.

3.2 Drilling and Sampling of Soil Borings

The samples were collected in acrylic tubes. The drive probe was equipped with nominal 2” diameter stainless steel tube that lined the interior of the probe. The probe and insert tubes were together pneumatically driven using the hammer at 2-foot intervals. After each drive interval the drive probe and rods were retrieved to the surface. The steel tube

containing subsurface soil was then removed. The drive probe was then cleaned, equipped with a new stainless steel and reinserted into the boring as required. The tubes and soil were inspected after each drive interval with lithologic and relevant drilling observations recorded. Soil samples were screened for organic vapors using an organic vapor analyzer (OVA). OVA readings, soil staining and other relevant observations were recorded.

The acrylic tubes were sliced at a depth of two (2feet for analytical purposes. All coring and sampling equipment were thoroughly cleaned and decontaminated between each sample collection by triple rinsing first with water, then with dilute tri-sodium phosphate solution, and finally with distilled water. The tubes were then labeled, sealed in a plastic bag, and placed in an ice chest and cooled to 4°C with crushed ice for temporary field storage and transportation. The standard chain-of-custody protocol was maintained for all soil samples from the time of collection to arrival at the laboratory.

3.3 Initial Investigation Laboratory Analysis of Soil Samples

Soil Samples were analyzed for chemical components that were presented in Section 1 Table 1 of this report.

1) Total Lead via US EPA 6010 Heavy Metals;

All analyses was conducted at McCampbell Analytical, Inc. of Pittsburg, CA (McCampbell) a State-certified chemical testing laboratory, DHS ELAP License # 1644, NELAP License # 12283CA with a five day turnaround on results.

3.4 Chain of Custody Documentation

COC documentation was completed by the field sampler immediately following material sampling. The COC documentation was signed as relinquished and received each time the sample changed possession. The COC documentation, at a minimum, contained the following elements:

- Project name and number;
- Project contact and phone number;

- Name of field samplers;
- Sample identification numbers;
- Sample date and time of collection;
- Sample matrix;
- Number of containers submitted for each sample;
- Sample container type;
- Analyses requested;
- Turnaround time requested for analyses;
- Preservation of sample containers (if applicable);
- Name and address of analytical laboratory; and
- Comments if applicable.

3.5 Laboratory QA/QC Procedures

The following laboratory QA/QC elements were performed by McCampbell for each analytical method utilized on this project:

- Method Blank;
- Laboratory Control Spike;
- Laboratory Control Spike Duplicate;
- Matrix Spike; and
- Matrix Spike Duplicate.

Analytical data reports from the laboratory were reviewed for compliance with laboratory QA/QC criteria for this project. The reported laboratory QA/QC results were within acceptable control limits. Items reviewed include holding time in the laboratory prior to extraction; and percent recovery laboratory for QC samples. Laboratory reports for these QA/QC controls are included in Appendix 2 of this report.

The laboratory reported date of sample extraction indicates that all samples were extracted and analyzed within their respective EPA recommended holding times. Dates of sample collection, extraction and analysis are included in the laboratory analytical reports are also

provided in Appendix 2. Upon receipt of the analytical data from MacCampbell, the following items were evaluated ARS:

- Sample holding times were met;
- QC sample results were within established laboratory control limits;
- Data package included all requested deliverables;
- Samples were analyzed as requested;
- Appropriate detection limits were obtained;
- Preservation/Temperature;
- Calibration criteria; and
- Blank sample results.

4.0 INITITIAL RESULTS OF THE INVESTIGATION

This section of the report presents ARS field findings and the results of chemical analysis that was performed on the soil samples. Laboratory analytical reports are presented in Appendix 2. Results of soil analysis are presented in the tables and discussed in the following section.

4.1 Initial Laboratory Analytical Results

Results of the chemical analyses were evaluated using the following regulatory criteria:

Whether the soil at the Site meets the legal definition of Hazardous Waste per Section Health & Safety Code (H&SC 25117), California Code of Regulation (CCR 66260.10) and whether it meets the definition of non-hazardous (contaminated) waste per section 20220. SWRCB - Nonhazardous Solid Waste. (C15: Section 2523).

(a) **Definition—**Nonhazardous solid waste means all putrescible and nonputrescible solid, semi solid, and liquid wastes, including garbage, trash, refuse, paper, rubbish, ashes, industrial wastes, demolition and construction wastes, provided that such wastes do not contain wastes which must be managed as hazardous wastes, or wastes which contain soluble pollutants in concentrations which exceed applicable water quality objectives, or could cause degradation of waters of the state (i.e., designated waste).

Results of the chemical analyses performed on the soil boring samples indicated the following, the results are tabulated at the end of the report:

- Lead was detected in soil samples at concentrations ranging from 8.3 mg/kg to 950 mg/kg. Some of the detected concentrations were **above** the ESL of 80 mg/Kg for Lead;

TABLE 1
Step-Out Sample Results from Hazardous Waste Areas
94th and International Blvd., Oakland CA

Sample ID	Lead Results *(mg/kg)*
SB-1-SO-10-S	250
SB-1-SO-10-N	43
SB-1-SO-10-E	320
SB-2-SO-10-N	290
SB-2-SO-10-W	140
SB2-SO-25-E	**4300**
SB-8-SO-10-W	68
SB-8-SO-10-E	160
SB3-SO-10-E	100
SB3-SO-10-N	100
SB-1-SO-20-S	110
SB-1-SO-20-N	48
SB-1-SO-20-E	110
SB-2-SO-20-N	290
SB-2-SO-20-W	120
SB-8-SO-20-W	170
SB-8-SO-20-E	150
SB3-SO-20-E	200
SB3-SO-20-N	57
SB11-2.0	13
SB12-2.0	34
SB10-2.0	26
SB1-F-4.0	17
SB3-SO-20-S	50

- **Residential Environmental Screening Level by Regional Water Quality Control Board for Lead is 80 mg/kg**
- **Numbers in Blue are in Excess of Residential ESLs**
- **Number in Brown is in Excess of Hazardous Waste Total Threshold Limit Concentration (TTLC)**
- **Average Total Lead Level excluding hazardous waste area is 125 mg/kg**

5.0 GROUNDWATER ISSUES

Although groundwater investigation was not within ARS' scope of work, we have attempted to make the following discussion:

Groundwater in the surrounding neighborhood is most likely at 16 feet bgs or lower because of the drought. There are no wells onsite, therefore no groundwater is being utilized from any aquifer for potable or culinary purposes. There is no pumping from any aquifer beneath the site, the residents all depend on City water from Sunol via Zone 7 Water district and future plans at the site indicate that there were no wells planned onsite.

So there **is no risk to any current or future resident from exposure to ingestion of any groundwater** . The only thing that may be argued would be vapor out-gassing, that is, the possibility of soil and groundwater vapor impacted vapors moving upwards from contaminated subsurface water and soil below. We conducted an investigation and we collected samples at 10 feet bgs that were tested for Volatile Organic Compounds and Petroleum Hydrocarbon compounds, the results were none detected. Additionally, the lithology of the site is comprised of heavy very dense dark clay that is very impervious to vapor and will act as an aquitard to fumes from the subsurface should any be detected.

The Phase I ESA identified potential recognized environmental conditions relative to the Propery.Historical records indicate: (1) The operation of a dry cleaning business at the 9434Inter national Blvd. Property suite in the 1960s; and (2) Evidence of unauthorized releases or spills on the Property at a small fenced area measuring 15 feet by 12 feet along the eastern side behind the Church in the parking lot contained evidence of petroleum, grease, stains and corrosion on the six feet concrete that surrounded ¾ of the enclosed area and concrete floor.

It appeared that there were signs of petroleum hydrocarbon compound discharge on the concrete slab within this area of the parking lot. There existed a rancid odor emanating from this area that smelled like a mixture of old decayed refuse and petroleum compounds.

1) No halogenated compounds were discovered at the former dry cleaning operations and since any groundwater pollution at this area emanating from the dry cleaning operation would be in the form of a surface leak, the potential for groundwater impact at this area of the site is highly unlikely.

2) No petroleum hydrocarbon compounds or solvents were detected sat the trash collection area down to 10 feet below ground surface. Only a minor hit of motor oil (560 mg/kg) was detected at 2' bgs. Therefore, the potential for groundwater impact at this area of the site is highly unlikely.

6.0 DISCUSSION OF INITIAL RESULTS

The following presents a discussion of the findings relative to soil disposal and worker safety for the soil samples collected from the borings at the Site.

Results of the soil analyses indicate that the following concentrations were detected above their Residential ESL in surficial soils (2 feet bgs) at the Site within a distance of ten (10) ft. and twenty (20) ft. from the center of the initial borings that were drilled at the Site during the first investigation that occurred in July 2015 and was documented in ARS' Final Soil Investigation Report, dated July 26, 2015 for the Site. The borings which were investigated in this study were SB-1, SB-2, SB-3and SB-8, in addition, three (3) soil borings were advanced in an "Alley" that links the site to Holley way (Figure 3). The depth of the borings was at two (2) feet beneath the sub-base and 4-6 inches of asphalt which is approximately an additional one foot from the surface (three ft. bgs).

The initial results had indicated the presence of the following concentrations of Lead at these primary borings:

SB1: 940 mg/kg/57 mg/L

SB2: 950 mg/kg/19 mg/L

SB3: 230 mg/kg/ 5.8 mg/L

SB8: 120 mg/kg/ 6.8 mg/L

6.1 Discussion of Current Results

- **SB1**

At 10 ft. from the center of the boring SB-1 which contained 940 mg/kg in a southern direction, Lead level was detected at 250 mg/kg; soluble extraction via Soluble Threshold Limit Concentration (STLC) produced 10 mg/l which is over the regulatory threshold limit level of 5 mg/l. At the same distance in a northern direction the level dropped to 43 mg/kg, while in an eastern direction it was the most elevated level at 320 mg/kg, an STLC extraction was performed and the results was 18 mg/l (Figures 2 & 3).

At 20 ft. from the center of the boring in a southern direction, Lead level dropped to 110 mg/kg, however an STLC extraction result was 80 mg/l. At the same distance in a northern direction the level was detected at almost the same background concentration of 48 mg/kg, while in an eastern direction it dropped significantly to 110 mg/kg.

The estimated total amount of California Hazardous Waste Soil from this area is approximately 175 CY or 300 Tons.

- **SB2**

At 10 ft. from the center of the boring SB-1 which contained 950 mg/kg in a northern direction, Lead level was detected at 290 mg/kg, an STLC extraction resulted in 9.5 mg/l

which is over the regulatory threshold limit level of 5 mg/l. At the same distance in a western direction the lead level dropped to 140 mg/kg, an STLC extraction resulted in 6.9 mg/l which is over the regulatory threshold limit level of 5 mg/l. Further out at 20 ft. in a northern direction the lead level was maintained at 290 mg/kg, while it dropped slightly in a western direction to 120 mg/kg, an STLC extraction resulted in 6.9 mg/l which is over the regulatory threshold limit level of 5 mg/l. Twenty five feet east of the boring and approximately 4 ft. north of the building the highest lead level ever recorded at the side was detected at 4,300 mg/kg, an STLC extraction resulted in 270 mg/l which is over the regulatory threshold limit level of 5 mg/l for California waste and a TCLP extraction resulted in 13 mg/l which over the limit of 5 mg/l for federal RCRA Waste.

We estimated 20 tons of Federal RCRA Waste to be present at this location and the estimated total amount of California Hazardous Waste Soil from this area is approximately 205 cy or 350 Tons.

- **SB-3**

At 20 ft. from the center of the boring SB-3 which contained 230 mg/kg in a southern direction, Lead level was detected at 50 mg/kg; soluble extraction via STLC resulted in 0.58 mg/l which is below the regulatory threshold limit level of 5 mg/l. At the same distance in a northern direction the level was 57 mg/kg, while in an eastern direction it was the most elevated level at 200 mg/kg. The interior 10 ft. radius levels from the center of the boring to the north and east were identical at 100 mg/kg, and the STLC extraction were very close at 2.7 ng/l and 3.2 mg/l in a northern and eastern direction respectively, (Figures 2 & 3).

The estimated total amount of California Hazardous Waste Soil from this area is approximately 60 CY or 100 Tons.

- **SB-8**

At 10 ft. from the center of the boring SB-8 which contained 120 mg/kg in an eastern direction, Lead level was detected at 160 mg/kg, an STLC extraction resulted in 7.5 mg/l. At the same distance in a western direction the level dropped to 68 mg/kg, an STLC extraction resulted in 3.8 mg/l. (Figures 2 & 3).

At 20 ft. from the center of the boring in a southern direction, Lead level dropped to 110 mg/kg, however an STLC extraction result was 80 mg/l. At the same distance in a northern direction the level was detected at almost the same background concentration of 48 mg/kg, while in an eastern direction it dropped significantly to 110 mg/kg.

The estimated total amount of California Hazardous Waste Soil from this area is approximately 90 CY or 150 Tons.

7.0 CONCLUSIONS

Based on the limited investigation, the approximate amount of California Hazardous Waste at the Site was estimated at 900 tons. The estimated amount of Federal RCRA Waste was estimated at 20 tons. The investigation was limited by the presence of apartment buildings and other structures which reserved us from fully exploring all of the soil beneath the existing structures. Therefore, it should be noted there is a possibility that after demolition activities at the site, and exposure of the upper two (2) feet of soil, there could be additional localized areas where there might be some Lead in excess of Residential ESL and potentially residual levels of Dieldrin similar to those detected at SB-5 and SB7 (Figure 3). The same holds true for the parking lot area located to the northwest of the site, it was filled with cars from the clinic, and so it was impossible to advance a boring or two at this location to investigate the subsurface quality of the soil in the upper two feet bgs. The soil detected at these two areas would mostly qualify for disposal at a Class II-Non- hazardous landfill which is four times less expensive than a hazardous waste facility if you include Generator tax fee returns. ARS, Inc. would recommend the addition of an extra 35% of the total tonnage to the existing tonnage to cover for this contingency, which could bring the total weight of the soil that would have to be disposed of to about 1,200 tons.

The presence of low levels of chlorinated pesticides during the first study indicates that here might have been a combination of aerial and building/perimeter foundation spraying in the past due to the type of pesticides that were detected. DDT and its congeners were always applied by aerial spraying, while Chlordane and Dieldrin have always been sprayed by regular Hudson type sprayers around foundations and perimeters of old buildings. It is noteworthy, that the concentrations of these pesticides were on the decline and that the DDT and its congeners must have been sprayed over 60 years ago due to its current concentration while the other two pesticides, Chlordane and Dieldrin appear to have been sprayed in the sixties or seventies due to their concentrations. Only these two pesticides were slightly over regulatory action limit and would have to be disposed of at a Class II Non-Hazardous Waste Landfill.

The Permissible Exposure Limit (PEL) for inorganic Arsenic by OSHA for occupational exposure is set at 0.01 mg/m^3. That is a very low level; our average Arsenic levels at the site is 13.3 mg/kg, because maximum contaminant level is above RWQCBs ESLs which is 0.39

mg/kg for construction worker safety, a Risk Management Plan (RMP) will most likely be required to protect Site workers during all subsurface-related construction activities. The RMP will basically specify that:

1) A thorough site-specific Health and Safety Plan (HSP) should be prepared and implemented during the excavation and loading activities;
2) A Dust Control Plan (DCP) should be prepared, the extent of which would involve keeping the dust to an absolute minimum; and
3) An Air Monitoring Plan for Lead and Arsenic should be implemented for few days for reasons that we will describe later in the report.

The HSP will likely require air monitoring and implementation of best management practices (BMPs) to insure both worker and pedestrian/public safety throughout the project.

In accordance with OSHA's 1910.1025 (Lead), the following actions must be implemented at the Site in accordance with the following government standards**:**

- **1910.1025(d) (3) (I)**
  The employer shall monitor employee exposures and shall base initial determinations on the employee exposure monitoring results and any of the following, relevant considerations:

- **1910.1025(d) (4) (I)**
  Where a determination conducted under paragraphs (d)(3) of this section shows the possibility of any employee exposure at or above the action level (30 ug/m^3), the employer shall conduct monitoring which is representative of the exposure for each employee in the workplace who is exposed to lead.

- **1910.1025(d) (8) (I)**
  The employer must, within 15 working days after the receipt of the results of any monitoring performed under this section, notify each affected employee of these results either individually in writing or by posting the results in an appropriate location that is accessible to affected employees.

- **1910.1025(d) (8) (ii)**
  Whenever the results indicate that the representative employee exposure, without regard to respirators, exceeds the permissible exposure limit, the employer shall include in the written notice a statement that the permissible exposure limit was exceeded and a description of the corrective action taken or to be taken to reduce exposure to or below

the permissible exposure limit.

- **1910.1025(d) (9)**
  Accuracy of measurement. The employer shall use a method of monitoring and analysis which has accuracy (to a confidence level of 95%) of not less than plus or minus 20 percent for airborne concentrations of lead equal to or greater than 30 ug/m^3.

8.0 RECOMMENDATIONS

8.1 On-Site Receptors Construction Workers

Construction excavation work activities must be performed at the Site pursuant to a Site Health & Safety plan developed in accordance with 29 CFR 1910.120 (*i.e.*, the "Hazardous Waste Operations and Emergency Response", also known as the HAZWOPER standard). In compliance with this standard, all personnel dealing with disturbed soil at the Site must have the training, experience and medical clearance to work on the Site during hazardous waste removal activities.

During hazardous waste soil removal activities, level C protection will be required for all workers coming in contact with hazardous waste soil. This will include Tyvek, masks with HEPA cartridges, steel toed boots, goggles and nitrile gloves.

Post-hazardous waste removal activities, the potential need for mitigation measures for worker protection will be evaluated based on comparison of air monitoring results to "Action Levels" that will be based on the Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (PEL) for arsenic of 10 ug/m^3 and the Action level for Lead set at 30 ug/m^3. In the event air monitoring results exceed these PELs, Hazwoper trained individuals will be required to perform the remaining work.

Arsenic can act as the surrogate for all other particulate exposures (except Lead) because it has the most stringent respirable dust action level of all the potential dust contaminants at this site. In the event the results of ongoing air monitoring indicate contaminant concentrations at least 75% of the established Action Level, developed using the PEL for arsenic, exposure risks will be controlled through the use of personal protective equipment by workers at the Site to prevent their exposure to these contaminants. Such personal protective equipment will be specified in a site-specific health and safety plan. The use of this equipment is designed to minimize the risk of exposure of contaminants by the on-site workers.

8.2 Off-Site Receptors Residents

In addition to the air monitoring performed during earth movement activities within the areas in which on-site workers may inhale airborne dust, air monitoring for Arsenic and Lead will also be performed downwind and up-wind of the earth movement activities – at

the boundaries of the Site. The monitoring results will be compared to exposure limits and site specific health-based air action levels will be developed in consideration of the characteristics of the soils that will be disturbed at the Site, as discussed in further detail below.

With respect to Arsenic within the contaminated soil, ARS projects that the risk of exposure to off-site receptors will be well below health-based exposure limits because sampling results indicate that arsenic concentrations in soil are only present at an upper level of 14 mg/kg. At these low concentrations, the release of arsenic into the air from the contaminated soil during excavation activities would be exceedingly limited. In addition, should any emissions actually reach ground surface, considerable mixing and dispersion in ambient air would reduce airborne contaminant concentrations to concentrations well below public health-based limits. In light of the foregoing considerations, the concentrations at or near off-site receptors would be far below all published California health-based exposure limits.

However, with respect to Lead within the contaminated zone, ARS projects that the risk of exposure to off-site receptors and passersby might be above health-based exposure limits because sampling results indicate that Lead concentrations in soil are present at an upper level of 950 mg/kg. At these high concentrations, the release of Lead into the air from the contaminated soil during excavation activities would create risks of exposure to nearby residents and off-site receptors. In light of the foregoing considerations, the concentrations at or near hazardous waste areas identified on Figure 5 would be above all published California health-based exposure limits. Remedial activities must be conducted in accordance to a Dust Control Plan in conjunction with the Air Monitoring Plan to insure compliance with regulatory action framework. In the event, air Lead levels exceed the action level of 30 ug/m^3; work should stop at the site until fugitive dust emissions have been abated.

8.3 Site Safety Officer

A Site Safety Officer must be assigned to the site during hazardous and contaminated soil removal activities to insure worker's safety, proper implementation of the Dust Control Plan and to implement Air Monitoring Program. As part of his duties, the SSO shall be responsible for:

1) keeping the onsite Contractor & Client representative informed of project health & safety developments; and are informed of potential hazards anticipated at the Site and procedures and precautions to be implemented on the job;
2) ensuring that contractors and subcontractors are informed of the expected hazards and appropriate protective measures at the Site; and
3) ensuring that resources are available to provide a safe and healthy work environment for contractor personnel.

SSO shall be responsible for:

1) assessing the potential health and safety hazards at the Site;
2) recommending appropriate safeguards and procedures;
3) modifying the HSP, when necessary; and
4) approving changes in safeguards used or operating procedures employed at the Site.

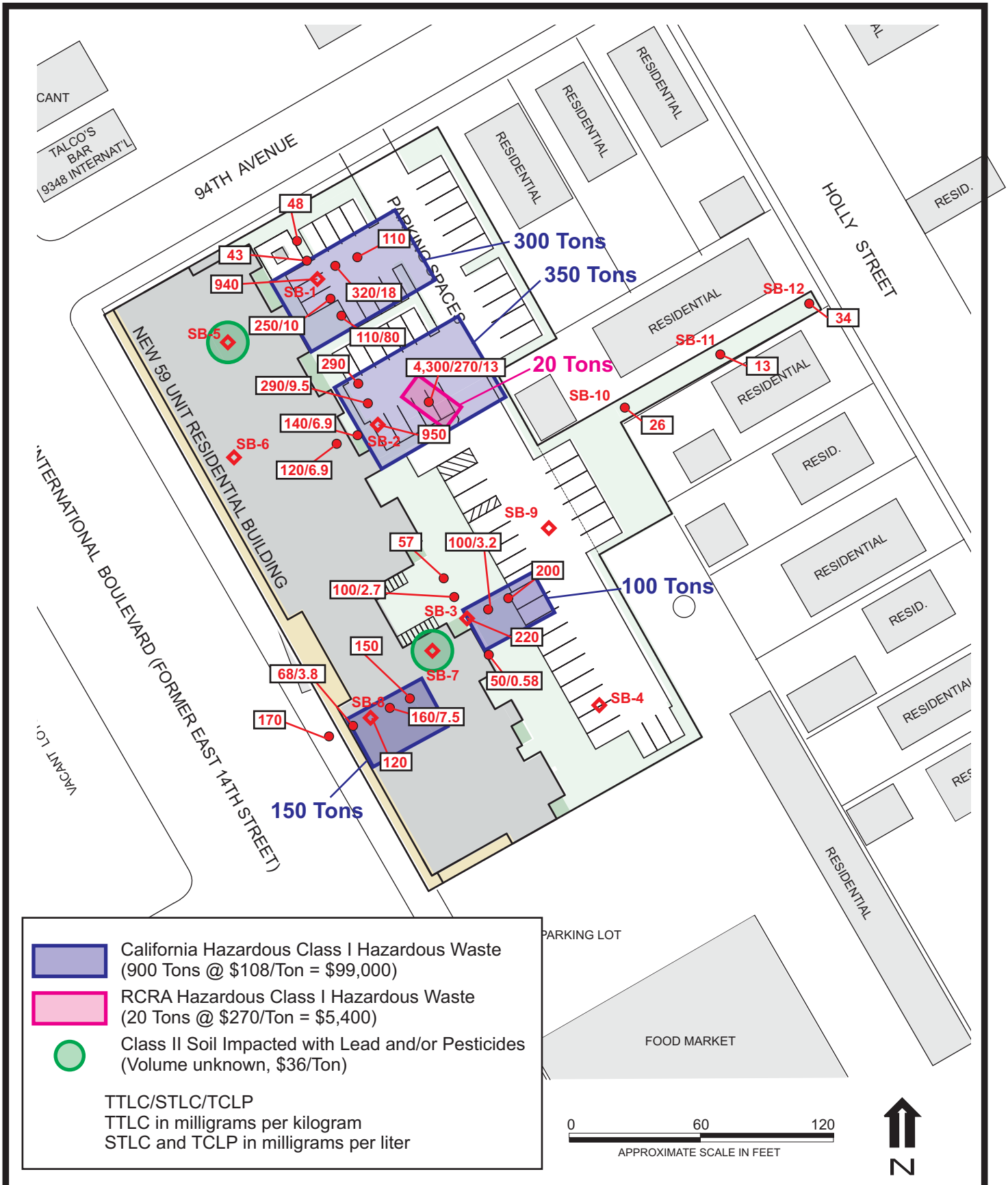
The SSO shall have the authority to:

1) require that additional safety precautions or procedures be implemented;
2) order an evacuation of the Site, or portion of the Site, or shut down any operation, if he believes a health or safety hazard exists;
3) deny unauthorized personnel access to the Site;
4) require that any worker obtain immediate medical attention; and
5) approve or disallow any proposed modifications to safety precautions or working procedures.

Appendix 1

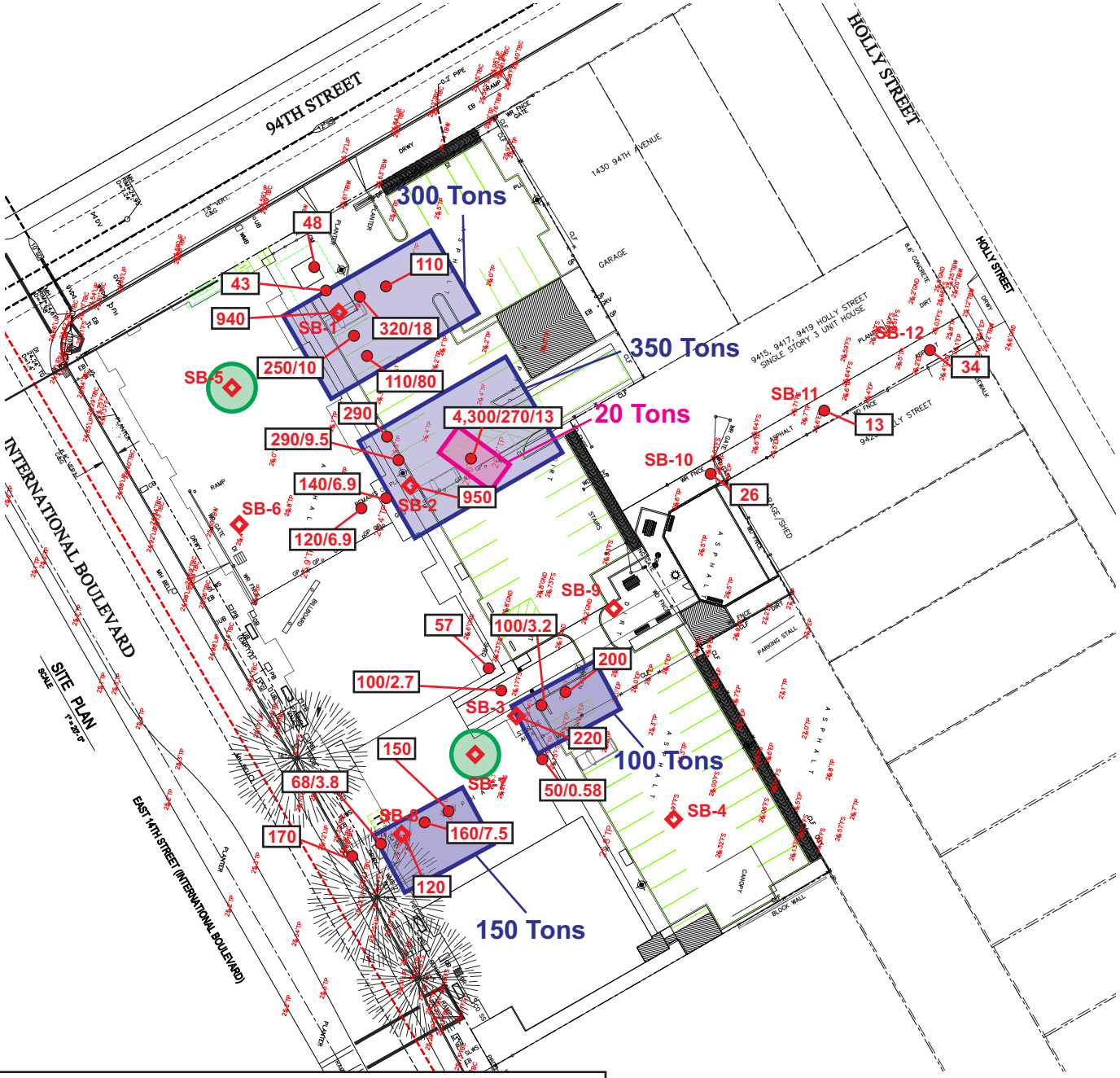
FIGURES

DESIGNED BY: JEG	CHECKED BY: MFK	**SITE PLAN SHOWING BORING LOCATIONS**	DATE: 09/02/2015	FIGURE: 1
DRAWN BY: JEG	SCALE: 1" = 60'	9400-9500 INTERNATIONAL BLVD. OAKLAND, CALIFORNIA	ARS, INC Applied Remedial Services, Inc. P.O. Box 5086 Walnut Creek, CA 94596	
PROJECT NO:				



DESIGNED BY: JEG	CHECKED BY: MFK	**TOTAL LEAD RESULTS FOR STEP-OUT BORINGS**	DATE: 09/02/2015	FIGURE: **2**
DRAWN BY: JEG	SCALE: 1" = 60'			
PROJECT NO:		9400-9500 INTERNATIONAL BLVD. OAKLAND, CALIFORNIA		

ARS, INC
Applied Remedial Services, Inc.
P.O. Box 5086
Walnut Creek, CA 94596



DESIGNED BY: JEG	CHECKED BY: MFK	9400-9500 INTERNATIONAL BLVD. OAKLAND, CALIFORNIA	DATE: 09/02/2015	FIGURE:
DRAWN BY: JEG				
PROJECT NO:				

ARS, INC
Applied Remedial Services, Inc.
P.O. Box 5086
Walnut Creek, CA 94596

Appendix 2

LABORATORY CERTIFICATES OF ANALYSIS

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1508564

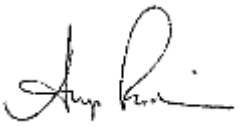
Report Created for: Applied Remedial Services, Inc.

P.O. Box 5086
Walnut Creek, CA 94596-1086

Project Contact: Michael F. Kara
Project P.O.:
Project Name: 9400 International, Oakland

Project Received: 08/17/2015

Analytical Report reviewed & approved for release on 08/24/2015 by:



Angela Rydelius,
Laboratory Manager

McCampbell Analytical, Inc.
"When Quality Counts"
1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Applied Remedial Services, Inc.
Project: 9400 International, Oakland
WorkOrder: 1508564

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Analytical Report

Client:	Applied Remedial Services, Inc.	**WorkOrder:**	1508564
Date Received:	8/17/15 20:10	**Extraction Method:**	SW3050B
Date Prepared:	8/17/15	**Analytical Method:**	SW6010B
Project:	9400 International, Oakland	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB1-50-10-S	1508564-001A	Soil	08/17/2015 08:25	ICP-JY	109058

Analytes	Result	RL	DF	Date Analyzed
Lead	**250**	5.0	1	08/19/2015 10:12

Surrogates	REC (%)	Limits	
Tb 350.917	93	70-130	08/19/2015 10:12

Analyst(s): AC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB1-50-10-N	1508564-003A	Soil	08/17/2015 08:35	ICP-JY	109058

Analytes	Result	RL	DF	Date Analyzed
Lead	**43**	5.0	1	08/19/2015 10:15

Surrogates	REC (%)	Limits	
Tb 350.917	97	70-130	08/19/2015 10:15

Analyst(s): AC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB1-50-10-E	1508564-005A	Soil	08/17/2015 08:45	ICP-JY	109058

Analytes	Result	RL	DF	Date Analyzed
Lead	**320**	5.0	1	08/19/2015 10:17

Surrogates	REC (%)	Limits	
Tb 350.917	100	70-130	08/19/2015 10:17

Analyst(s): AC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB2-50-10-N	1508564-007A	Soil	08/17/2015 08:55	ICP-JY	109058

Analytes	Result	RL	DF	Date Analyzed
Lead	**290**	5.0	1	08/19/2015 10:20

Surrogates	REC (%)	Limits	
Tb 350.917	88	70-130	08/19/2015 10:20

Analyst(s): AC

(Cont.)

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Analytical Report

Client:	Applied Remedial Services, Inc.	**WorkOrder:**	1508564
Date Received:	8/17/15 20:10	**Extraction Method:**	SW3050B
Date Prepared:	8/17/15	**Analytical Method:**	SW6010B
Project:	9400 International, Oakland	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB2-50-10-W	1508564-009A	Soil	08/17/2015 09:05	ICP-JY	109058

Analytes	Result	RL	DF	Date Analyzed
Lead	**140**	5.0	1	08/19/2015 10:22

Surrogates	REC (%)	Limits	
Tb 350.917	100	70-130	08/19/2015 10:22

Analyst(s): AC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB2-50-25-E	1508564-011A	Soil	08/17/2015 09:25	ICP-JY	109058

Analytes	Result	RL	DF	Date Analyzed
Lead	**4300**	5.0	1	08/19/2015 10:25

Surrogates	REC (%)	Limits	
Tb 350.917	105	70-130	08/19/2015 10:25

Analyst(s): AC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB8-50-10-W	1508564-012A	Soil	08/17/2015 09:55	ICP-JY	109058

Analytes	Result	RL	DF	Date Analyzed
Lead	**68**	5.0	1	08/19/2015 10:27

Surrogates	REC (%)	Limits	
Tb 350.917	98	70-130	08/19/2015 10:27

Analyst(s): AC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB8-50-10-E	1508564-014A	Soil	08/17/2015 10:00	ICP-JY	109058

Analytes	Result	RL	DF	Date Analyzed
Lead	**160**	5.0	1	08/19/2015 10:30

Surrogates	REC (%)	Limits	
Tb 350.917	107	70-130	08/19/2015 10:30

Analyst(s): AC

(Cont.)

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Analytical Report

Client:	Applied Remedial Services, Inc.	**WorkOrder:**	1508564
Date Received:	8/17/15 20:10	**Extraction Method:**	SW3050B
Date Prepared:	8/17/15	**Analytical Method:**	SW6010B
Project:	9400 International, Oakland	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB3-50-20-S	1508564-016A	Soil	08/17/2015 10:15	ICP-JY	109058

Analytes	Result	RL	DF	Date Analyzed
Lead	**50**	5.0	1	08/19/2015 10:32

Surrogates	REC (%)	Limits	
Tb 350.917	101	70-130	08/19/2015 10:32

Analyst(s): AC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB11-2.0	1508564-017A	Soil	08/17/2015 10:30	ICP-JY	109058

Analytes	Result	RL	DF	Date Analyzed
Lead	**13**	5.0	1	08/19/2015 10:34

Surrogates	REC (%)	Limits	
Tb 350.917	102	70-130	08/19/2015 10:34

Analyst(s): AC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB12-2.0	1508564-018A	Soil	08/17/2015 10:40	ICP-JY	109058

Analytes	Result	RL	DF	Date Analyzed
Lead	**34**	5.0	1	08/19/2015 13:40

Surrogates	REC (%)	Limits	
Tb 350.917	113	70-130	08/19/2015 13:40

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB10-2.0	1508564-019A	Soil	08/17/2015 10:25	ICP-JY	109058

Analytes	Result	RL	DF	Date Analyzed
Lead	**26**	5.0	1	08/19/2015 13:42

Surrogates	REC (%)	Limits	
Tb 350.917	111	70-130	08/19/2015 13:42

Analyst(s): BBO

(Cont.)

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Analytical Report

Client:	Applied Remedial Services, Inc.	**WorkOrder:**	1508564
Date Received:	8/17/15 20:10	**Extraction Method:**	SW3050B
Date Prepared:	8/17/15	**Analytical Method:**	SW6010B
Project:	9400 International, Oakland	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB1-F-4.0	1508564-020A	Soil	08/17/2015 11:00	ICP-JY	109058

Analytes	Result	RL	DF	Date Analyzed
Lead	**17**	5.0	1	08/19/2015 13:45

Surrogates	REC (%)	Limits	
Tb 350.917	106	70-130	08/19/2015 13:45

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB3-50-10-E	1508564-021A	Soil	08/17/2015 12:00	ICP-JY	109058

Analytes	Result	RL	DF	Date Analyzed
Lead	**100**	5.0	1	08/19/2015 13:47

Surrogates	REC (%)	Limits	
Tb 350.917	110	70-130	08/19/2015 13:47

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB3-50-10-N	1508564-023A	Soil	08/17/2015 12:30	ICP-JY	109058

Analytes	Result	RL	DF	Date Analyzed
Lead	**100**	5.0	1	08/19/2015 13:50

Surrogates	REC (%)	Limits	
Tb 350.917	109	70-130	08/19/2015 13:50

Analyst(s): BBO

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Quality Control Report

Client:	Applied Remedial Services, Inc.	**WorkOrder:**	1508564
Date Prepared:	8/17/15	**BatchID:**	109058
Date Analyzed:	8/18/15	**Extraction Method:**	SW3050B
Instrument:	ICP-JY	**Analytical Method:**	SW6010B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	9400 International, Oakland	**Sample ID:**	MB/LCS-109058 1508556-001AMS/MSD

QC Summary Report for Lead

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND	48.5	5.0	50	-	97	75-125
Surrogate Recovery							
Tb 350.917	490	518		500	98	104	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	NR	NR	50	326.8	NR	NR	75-125	NR	25
Surrogate Recovery									
Tb 350.917	566	547	500		113	109	70-130	3.37	20

McCampbell Analytical, Inc.
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Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1508564 **ClientCode: ARSB**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Michael F. Kara
Applied Remedial Services, Inc.
P.O. Box 5086
Walnut Creek, CA 94596-1086
707-748-4205 FAX: 707-748-4207

Email: mmkara707@aol.com
cc/3rd Party:
PO:
ProjectNo: 9400 International, Oakland

Bill to:
Accounts Payable
Applied Remedial Services, Inc.
P.O. Box 5086
Walnut Creek, CA 94596-1086

Requested TAT: 5 days;

Date Received: **08/17/2015**
Date Printed: **08/17/2015**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
1508564-001	SB1-50-10-S	Soil	8/17/2015 8:25	☐	A											
1508564-003	SB1-50-10-N	Soil	8/17/2015 8:35	☐	A											
1508564-005	SB1-50-10-E	Soil	8/17/2015 8:45	☐	A											
1508564-007	SB2-50-10-N	Soil	8/17/2015 8:55	☐	A											
1508564-009	SB2-50-10-W	Soil	8/17/2015 9:05	☐	A											
1508564-011	SB2-50-25-E	Soil	8/17/2015 9:25	☐	A											
1508564-012	SB8-50-10-W	Soil	8/17/2015 9:55	☐	A											
1508564-014	SB8-50-10-E	Soil	8/17/2015 10:00	☐	A											
1508564-016	SB3-50-20-S	Soil	8/17/2015 10:15	☐	A											
1508564-017	SB11-2.0	Soil	8/17/2015 10:30	☐	A											
1508564-018	SB12-2.0	Soil	8/17/2015 10:40	☐	A											
1508564-019	SB10-2.0	Soil	8/17/2015 10:25	☐	A											
1508564-020	SB1-F-4.0	Soil	8/17/2015 11:00	☐	A											
1508564-021	SB3-50-10-E	Soil	8/17/2015 12:00	☐	A											
1508564-023	SB3-50-10-N	Soil	8/17/2015 12:30	☐	A											

Test Legend:

1	PB_S	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Jena Alfaro

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: APPLIED REMEDIAL SERVICES, INC. **QC Level:** LEVEL 2 **Work Order:** 1508564
Project: 9400 International, Oakland **Client Contact:** Michael F. Kara **Date Received:** 8/17/2015
Comments: **Contact's Email:** mmkara707@aol.com

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1508564-001A	SB1-50-10-S	Soil	SW6010B (Lead)	1	8OZ GJ	☐	8/17/2015 8:25	5 days		☐	
1508564-002A	SB1-50-20-S	Soil		1	8OZ GJ	☐	8/17/2015 8:30			☑	
1508564-003A	SB1-50-10-N	Soil	SW6010B (Lead)	1	8OZ GJ	☐	8/17/2015 8:35	5 days		☐	
1508564-004A	SB1-50-20-N	Soil		1	8OZ GJ	☐	8/17/2015 8:40			☑	
1508564-005A	SB1-50-10-E	Soil	SW6010B (Lead)	1	8OZ GJ	☐	8/17/2015 8:45	5 days		☐	
1508564-006A	SB1-50-20-E	Soil		1	8OZ GJ	☐	8/17/2015 8:50			☑	
1508564-007A	SB2-50-10-N	Soil	SW6010B (Lead)	1	8OZ GJ	☐	8/17/2015 8:55	5 days		☐	
1508564-008A	SB2-50-20-N	Soil		1	8OZ GJ	☐	8/17/2015 9:00			☑	
1508564-009A	SB2-50-10-W	Soil	SW6010B (Lead)	1	8OZ GJ	☐	8/17/2015 9:05	5 days		☐	
1508564-010A	SB2-50-20-W	Soil		1	8OZ GJ	☐	8/17/2015 9:10			☑	
1508564-011A	SB2-50-25-E	Soil	SW6010B (Lead)	1	8OZ GJ	☐	8/17/2015 9:25	5 days		☐	
1508564-012A	SB8-50-10-W	Soil	SW6010B (Lead)	1	8OZ GJ	☐	8/17/2015 9:55	5 days		☐	
1508564-013A	SB8-50-20-W	Soil		1	8OZ GJ	☐	8/17/2015 9:50			☑	
1508564-014A	SB8-50-10-E	Soil	SW6010B (Lead)	1	8OZ GJ	☐	8/17/2015 10:00	5 days		☐	
1508564-015A	SB8-50-20-E	Soil		1	8OZ GJ	☐	8/17/2015 10:05			☑	
1508564-016A	SB3-50-20-S	Soil	SW6010B (Lead)	1	8OZ GJ	☐	8/17/2015 10:15	5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

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WORK ORDER SUMMARY

Client Name: APPLIED REMEDIAL SERVICES, INC. **QC Level:** LEVEL 2 **Work Order:** 1508564
Project: 9400 International, Oakland **Client Contact:** Michael F. Kara **Date Received:** 8/17/2015
Comments: **Contact's Email:** mmkara707@aol.com

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1508564-017A	SB11-2.0	Soil	SW6010B (Lead)	1	8OZ GJ	☐	8/17/2015 10:30	5 days		☐	
1508564-018A	SB12-2.0	Soil	SW6010B (Lead)	1	8OZ GJ	☐	8/17/2015 10:40	5 days		☐	
1508564-019A	SB10-2.0	Soil	SW6010B (Lead)	1	8OZ GJ	☐	8/17/2015 10:25	5 days		☐	
1508564-020A	SB1-F-4.0	Soil	SW6010B (Lead)	1	8OZ GJ	☐	8/17/2015 11:00	5 days		☐	
1508564-021A	SB3-50-10-E	Soil	SW6010B (Lead)	1	8OZ GJ	☐	8/17/2015 12:00	5 days		☐	
1508564-022A	SB3-50-20-E	Soil		1	8OZ GJ	☐	8/17/2015 12:15			☑	
1508564-023A	SB3-50-10-N	Soil	SW6010B (Lead)	1	8OZ GJ	☐	8/17/2015 12:30	5 days		☐	
1508564-024A	SB3-50-20-N	Soil		1	8OZ GJ	☐	8/17/2015 12:45			☑	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

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150905 64

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH ☐ 1 DAY ☐ 2 DAY ☐ 3 DAY ☐ 5 DAY ☒

GeoTracker EDF ☐ PDF ☐ EDD ☐ Write On (DW) ☐ EQuIS ☐ 10 DAY ☐

Effluent Sample Requiring "J" flag ☐ UST Clean Up Fund Project ☐ ; Claim #_____

Report To: Michael KARA **Bill To:**

Company: ARS
PO Box 5086, Walnut Creek, CA 94596

Tele: (925) 943-7742 **E-Mail:** mmkara707@aol.com

Project #: **Project Name:**

Project Location: 9400 International, Oakley **Purchase Order#**

Sampler Signature: MKR

SAMPLE ID	Location/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	MATRIX: Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	METHOD PRESERVED: HCL	HNO_3	Other
~~SB1-SO-10-S~~															
SB1-SO-10-S		9/17	0825	1					X						
SB1-SO-20-S	*		0830												
SB1-SO-10-N			0835												
SB1-SO-20-N	*		0840												
SB1-SO-10-E			0845												
SB1-SO-20-E	*		0850												
SB2-SO-10-N			0855												
SB2-SO-20-N	*		0900												
SB2-SO-10-W			0905												

Analysis Request

BTEX & TPH as Gas (8021/ 8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)***	LUFT 5 Metals (200.8 / 6020)***	Metals (200.8 / 6020)***	Lab to Filter sample for Dissolved metals analysis	Total Lead				
															X					
															X					
															X					
															X					
															X					
															X					
															X					
															X					
															X					

****MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.**

***** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.**

Relinquished By:	Date:	Time:	Received By:
MKR	9/17/15	1600	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t°_____
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

COMMENTS:
* HOLD

PRESERVATION_____ VOAS O&G METALS OTHER HAZARDOUS: pH<2_____

page 1 of 3

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CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH ☐ 1 DAY ☐ 2 DAY ☐ 3 DAY ☐ 5 DAY ☐

GeoTracker EDF ☐ PDF ☐ EDD ☐ Write On (DW) ☐ EQuIS ☐ 10 DAY ☐

Effluent Sample Requiring "J" flag ☐ **UST Clean Up Fund Project** ☐ ; **Claim #**_____

Report To: Michael Karg **Bill To:**

Company: AKS

PO Box 5686 Walnut Creek, CA 94596

Tele: (925) 943-7742 **E-Mail:** mmkarg707@aol.com

Project #: **Project Name:**

Project Location: 9400 International Blvd **Purchase Order#**

Sampler Signature: MMR

SAMPLE ID	Location/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	MATRIX: Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	METHOD PRESERVED: HCL	HNO_3	Other	BTEX & TPH as Gas (8021/ 8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)***	LUFT 5 Metals (200.8 / 6020)***	Metals (200.8 / 6020)***	Lab to Filter sample for Dissolved metals analysis	Total Lead				
SB2-S0-20-W	*	8/17	0910	X					X																					X					
SB2-S0-25-E			0925																											X					
SB8-S0-10-W	*		~~0955~~																											X					
SB8-S0-20W	*		0950																											X					
SB8-S0-10-E			1000																											X					
SB8-S0-20-E	*		1005																											X					
SB3-S0-20-S			1015																											X					
SB11-2.0			1030																											X					
SB12-2.0			1040																											X					
SB10-2.0			1025																											X					

Analysis Request

****MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.**

***** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.**

Relinquished By:	Date:	Time:	Received By:
MMR	8/17/15	1600	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t°_____
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

COMMENTS:

* Hold

page 2 of 3

VOAS O&G METALS OTHER HAZARDOUS:
PRESERVATION_____ pH<2_____

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CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH ☐ 1 DAY ☐ 2 DAY ☐ 3 DAY ☐ 5 DAY ☒

GeoTracker EDF ☐ PDF ☐ EDD ☐ Write On (DW) ☐ EQuIS ☐ 10 DAY ☐

Effluent Sample Requiring "J" flag ☐ UST Clean Up Fund Project ☐; Claim #_____

Report To: Michael Kara **Bill To:**

Company: ARS

PO Box 5080, Walnut Creek, CA 94596

Tele: (925) 943-7742 **E-Mail:** mmkara707@aol.com

Project #: **Project Name:**

Project Location: 9400 Internationl, Oakl. **Purchase Order#**

Sampler Signature: MR

SAMPLE ID	Location/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	MATRIX: Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	METHOD PRESERVED: HCL	HNO_3	Other	BTEX & TPH as Gas (8021/ 8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)***	LUFT 5 Metals (200.8 / 6020)***	Metals (200.8 / 6020)***	Lab to Filter sample for Dissolved metals analysis	Analysis Request: Total / Lead				
SB1-F-4.0		8/17	1100	1					X																					X					
SB3-S0-10-E			1200																											X					
SB3-S0-20-E	X		1215																											X					
SB3-S0-10-N			1230																											X					
SB3-S0-20-N	X		1245																											X					

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

*** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.

Relinquished By:	Date:	Time:	Received By:
MR	8/17/15	1600	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t°_____ COMMENTS:

GOOD CONDITION_____

HEAD SPACE ABSENT_____ ** HOLD

DECHLORINATED IN LAB_____

APPROPRIATE CONTAINERS_____

PRESERVED IN LAB_____

VOAS O&G METALS OTHER HAZARDOUS:

PRESERVATION_____ pH<2_____

page 3 of 3

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Sample Receipt Checklist

Client Name:	**Applied Remedial Services, Inc.**	Date and Time Received:	**8/17/2015 8:10:09 PM**
Project Name:	**9400 International, Oakland**	LogIn Reviewed by:	Jena Alfaro
WorkOrder №:	**1508564** Matrix: Soil	Carrier:	Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐	
Chain of custody signed when relinquished and received?	Yes	☑	No	☐	
Chain of custody agrees with sample labels?	Yes	☑	No	☐	
Sample IDs noted by Client on COC?	Yes	☑	No	☐	
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐	
Sampler's name noted on COC?	Yes	☑	No	☐	

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA ☑
Shipping container/cooler in good condition?	Yes	☑	No	☐	
Samples in proper containers/bottles?	Yes	☑	No	☐	
Sample containers intact?	Yes	☑	No	☐	
Sufficient sample volume for indicated test?	Yes	☑	No	☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	
Sample/Temp Blank temperature	Temp:				NA ☑
Water - VOA vials have zero headspace / no bubbles?	Yes	☐	No	☐	NA ☑
Sample labels checked for correct preservation?	Yes	☑	No	☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes	☐	No	☐	NA ☑
Samples Received on Ice?	Yes	☐	No	☑	

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes	☐	No	☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes	☐	No	☐	NA ☑

** NOTE: If the "No" box is checked, see comments below.*

Comments:

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1508564

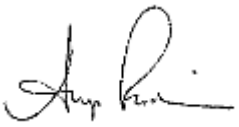
Report Created for: Applied Remedial Services, Inc.

P.O. Box 5086
Walnut Creek, CA 94596-1086

Project Contact: Michael F. Kara
Project P.O.:
Project Name: 9400 International, Oakland

Project Received: 08/17/2015

Analytical Report reviewed & approved for release on 08/24/2015 by:



Angela Rydelius,
Laboratory Manager

McCampbell Analytical, Inc.
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Glossary of Terms & Qualifier Definitions

Client: Applied Remedial Services, Inc.
Project: 9400 International, Oakland
WorkOrder: 1508564

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Analytical Report

Client:	Applied Remedial Services, Inc.	**WorkOrder:**	1508564
Date Received:	8/17/15 20:10	**Extraction Method:**	SW3050B
Date Prepared:	8/17/15	**Analytical Method:**	SW6010B
Project:	9400 International, Oakland	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB1-50-10-S	1508564-001A	Soil	08/17/2015 08:25	ICP-JY	109058

Analytes	Result	RL	DF	Date Analyzed
Lead	**250**	5.0	1	08/19/2015 10:12

Surrogates	REC (%)	Limits	
Tb 350.917	93	70-130	08/19/2015 10:12

Analyst(s): AC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB1-50-10-N	1508564-003A	Soil	08/17/2015 08:35	ICP-JY	109058

Analytes	Result	RL	DF	Date Analyzed
Lead	**43**	5.0	1	08/19/2015 10:15

Surrogates	REC (%)	Limits	
Tb 350.917	97	70-130	08/19/2015 10:15

Analyst(s): AC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB1-50-10-E	1508564-005A	Soil	08/17/2015 08:45	ICP-JY	109058

Analytes	Result	RL	DF	Date Analyzed
Lead	**320**	5.0	1	08/19/2015 10:17

Surrogates	REC (%)	Limits	
Tb 350.917	100	70-130	08/19/2015 10:17

Analyst(s): AC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB2-50-10-N	1508564-007A	Soil	08/17/2015 08:55	ICP-JY	109058

Analytes	Result	RL	DF	Date Analyzed
Lead	**290**	5.0	1	08/19/2015 10:20

Surrogates	REC (%)	Limits	
Tb 350.917	88	70-130	08/19/2015 10:20

Analyst(s): AC

(Cont.)

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Applied Remedial Services, Inc.	**WorkOrder:**	1508564
Date Received:	8/17/15 20:10	**Extraction Method:**	SW3050B
Date Prepared:	8/17/15	**Analytical Method:**	SW6010B
Project:	9400 International, Oakland	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB2-50-10-W	1508564-009A	Soil	08/17/2015 09:05	ICP-JY	109058

Analytes	Result	RL	DF	Date Analyzed
Lead	**140**	5.0	1	08/19/2015 10:22

Surrogates	REC (%)	Limits	
Tb 350.917	100	70-130	08/19/2015 10:22

Analyst(s): AC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB2-50-25-E	1508564-011A	Soil	08/17/2015 09:25	ICP-JY	109058

Analytes	Result	RL	DF	Date Analyzed
Lead	**4300**	5.0	1	08/19/2015 10:25

Surrogates	REC (%)	Limits	
Tb 350.917	105	70-130	08/19/2015 10:25

Analyst(s): AC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB8-50-10-W	1508564-012A	Soil	08/17/2015 09:55	ICP-JY	109058

Analytes	Result	RL	DF	Date Analyzed
Lead	**68**	5.0	1	08/19/2015 10:27

Surrogates	REC (%)	Limits	
Tb 350.917	98	70-130	08/19/2015 10:27

Analyst(s): AC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB8-50-10-E	1508564-014A	Soil	08/17/2015 10:00	ICP-JY	109058

Analytes	Result	RL	DF	Date Analyzed
Lead	**160**	5.0	1	08/19/2015 10:30

Surrogates	REC (%)	Limits	
Tb 350.917	107	70-130	08/19/2015 10:30

Analyst(s): AC

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Applied Remedial Services, Inc.	**WorkOrder:**	1508564
Date Received:	8/17/15 20:10	**Extraction Method:**	SW3050B
Date Prepared:	8/17/15	**Analytical Method:**	SW6010B
Project:	9400 International, Oakland	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB3-50-20-S	1508564-016A	Soil	08/17/2015 10:15	ICP-JY	109058

Analytes	Result	RL	DF	Date Analyzed
Lead	**50**	5.0	1	08/19/2015 10:32

Surrogates	REC (%)	Limits	
Tb 350.917	101	70-130	08/19/2015 10:32

Analyst(s): AC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB11-2.0	1508564-017A	Soil	08/17/2015 10:30	ICP-JY	109058

Analytes	Result	RL	DF	Date Analyzed
Lead	**13**	5.0	1	08/19/2015 10:34

Surrogates	REC (%)	Limits	
Tb 350.917	102	70-130	08/19/2015 10:34

Analyst(s): AC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB12-2.0	1508564-018A	Soil	08/17/2015 10:40	ICP-JY	109058

Analytes	Result	RL	DF	Date Analyzed
Lead	**34**	5.0	1	08/19/2015 13:40

Surrogates	REC (%)	Limits	
Tb 350.917	113	70-130	08/19/2015 13:40

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB10-2.0	1508564-019A	Soil	08/17/2015 10:25	ICP-JY	109058

Analytes	Result	RL	DF	Date Analyzed
Lead	**26**	5.0	1	08/19/2015 13:42

Surrogates	REC (%)	Limits	
Tb 350.917	111	70-130	08/19/2015 13:42

Analyst(s): BBO

(Cont.)

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Analytical Report

Client:	Applied Remedial Services, Inc.	**WorkOrder:**	1508564
Date Received:	8/17/15 20:10	**Extraction Method:**	SW3050B
Date Prepared:	8/17/15	**Analytical Method:**	SW6010B
Project:	9400 International, Oakland	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB1-F-4.0	1508564-020A	Soil	08/17/2015 11:00	ICP-JY	109058

Analytes	Result	RL	DF	Date Analyzed
Lead	**17**	5.0	1	08/19/2015 13:45

Surrogates	REC (%)	Limits	
Tb 350.917	106	70-130	08/19/2015 13:45

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB3-50-10-E	1508564-021A	Soil	08/17/2015 12:00	ICP-JY	109058

Analytes	Result	RL	DF	Date Analyzed
Lead	**100**	5.0	1	08/19/2015 13:47

Surrogates	REC (%)	Limits	
Tb 350.917	110	70-130	08/19/2015 13:47

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB3-50-10-N	1508564-023A	Soil	08/17/2015 12:30	ICP-JY	109058

Analytes	Result	RL	DF	Date Analyzed
Lead	**100**	5.0	1	08/19/2015 13:50

Surrogates	REC (%)	Limits	
Tb 350.917	109	70-130	08/19/2015 13:50

Analyst(s): BBO

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Applied Remedial Services, Inc.	**WorkOrder:**	1508564
Date Prepared:	8/17/15	**BatchID:**	109058
Date Analyzed:	8/18/15	**Extraction Method:**	SW3050B
Instrument:	ICP-JY	**Analytical Method:**	SW6010B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	9400 International, Oakland	**Sample ID:**	MB/LCS-109058 1508556-001AMS/MSD

QC Summary Report for Lead

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND	48.5	5.0	50	-	97	75-125
Surrogate Recovery							
Tb 350.917	490	518		500	98	104	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	NR	NR	50	326.8	NR	NR	75-125	NR	25
Surrogate Recovery									
Tb 350.917	566	547	500		113	109	70-130	3.37	20

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(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1508564 **ClientCode: ARSB**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Michael F. Kara
Applied Remedial Services, Inc.
P.O. Box 5086
Walnut Creek, CA 94596-1086
707-748-4205 FAX: 707-748-4207

Email: mmkara707@aol.com
cc/3rd Party:
PO:
ProjectNo: 9400 International, Oakland

Bill to:
Accounts Payable
Applied Remedial Services, Inc.
P.O. Box 5086
Walnut Creek, CA 94596-1086

Requested TAT: 5 days;

Date Received: **08/17/2015**
Date Printed: **08/17/2015**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
1508564-001	SB1-50-10-S	Soil	8/17/2015 8:25	☐	A											
1508564-003	SB1-50-10-N	Soil	8/17/2015 8:35	☐	A											
1508564-005	SB1-50-10-E	Soil	8/17/2015 8:45	☐	A											
1508564-007	SB2-50-10-N	Soil	8/17/2015 8:55	☐	A											
1508564-009	SB2-50-10-W	Soil	8/17/2015 9:05	☐	A											
1508564-011	SB2-50-25-E	Soil	8/17/2015 9:25	☐	A											
1508564-012	SB8-50-10-W	Soil	8/17/2015 9:55	☐	A											
1508564-014	SB8-50-10-E	Soil	8/17/2015 10:00	☐	A											
1508564-016	SB3-50-20-S	Soil	8/17/2015 10:15	☐	A											
1508564-017	SB11-2.0	Soil	8/17/2015 10:30	☐	A											
1508564-018	SB12-2.0	Soil	8/17/2015 10:40	☐	A											
1508564-019	SB10-2.0	Soil	8/17/2015 10:25	☐	A											
1508564-020	SB1-F-4.0	Soil	8/17/2015 11:00	☐	A											
1508564-021	SB3-50-10-E	Soil	8/17/2015 12:00	☐	A											
1508564-023	SB3-50-10-N	Soil	8/17/2015 12:30	☐	A											

Test Legend:

1	PB_S	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Jena Alfaro

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: APPLIED REMEDIAL SERVICES, INC. **QC Level:** LEVEL 2 **Work Order:** 1508564
Project: 9400 International, Oakland **Client Contact:** Michael F. Kara **Date Received:** 8/17/2015
Comments: **Contact's Email:** mmkara707@aol.com

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1508564-001A	SB1-50-10-S	Soil	SW6010B (Lead)	1	8OZ GJ	☐	8/17/2015 8:25	5 days		☐	
1508564-002A	SB1-50-20-S	Soil		1	8OZ GJ	☐	8/17/2015 8:30			☑	
1508564-003A	SB1-50-10-N	Soil	SW6010B (Lead)	1	8OZ GJ	☐	8/17/2015 8:35	5 days		☐	
1508564-004A	SB1-50-20-N	Soil		1	8OZ GJ	☐	8/17/2015 8:40			☑	
1508564-005A	SB1-50-10-E	Soil	SW6010B (Lead)	1	8OZ GJ	☐	8/17/2015 8:45	5 days		☐	
1508564-006A	SB1-50-20-E	Soil		1	8OZ GJ	☐	8/17/2015 8:50			☑	
1508564-007A	SB2-50-10-N	Soil	SW6010B (Lead)	1	8OZ GJ	☐	8/17/2015 8:55	5 days		☐	
1508564-008A	SB2-50-20-N	Soil		1	8OZ GJ	☐	8/17/2015 9:00			☑	
1508564-009A	SB2-50-10-W	Soil	SW6010B (Lead)	1	8OZ GJ	☐	8/17/2015 9:05	5 days		☐	
1508564-010A	SB2-50-20-W	Soil		1	8OZ GJ	☐	8/17/2015 9:10			☑	
1508564-011A	SB2-50-25-E	Soil	SW6010B (Lead)	1	8OZ GJ	☐	8/17/2015 9:25	5 days		☐	
1508564-012A	SB8-50-10-W	Soil	SW6010B (Lead)	1	8OZ GJ	☐	8/17/2015 9:55	5 days		☐	
1508564-013A	SB8-50-20-W	Soil		1	8OZ GJ	☐	8/17/2015 9:50			☑	
1508564-014A	SB8-50-10-E	Soil	SW6010B (Lead)	1	8OZ GJ	☐	8/17/2015 10:00	5 days		☐	
1508564-015A	SB8-50-20-E	Soil		1	8OZ GJ	☐	8/17/2015 10:05			☑	
1508564-016A	SB3-50-20-S	Soil	SW6010B (Lead)	1	8OZ GJ	☐	8/17/2015 10:15	5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

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WORK ORDER SUMMARY

Client Name: APPLIED REMEDIAL SERVICES, INC. **QC Level:** LEVEL 2 **Work Order:** 1508564
Project: 9400 International, Oakland **Client Contact:** Michael F. Kara **Date Received:** 8/17/2015
Comments: **Contact's Email:** mmkara707@aol.com

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1508564-017A	SB11-2.0	Soil	SW6010B (Lead)	1	8OZ GJ	☐	8/17/2015 10:30	5 days		☐	
1508564-018A	SB12-2.0	Soil	SW6010B (Lead)	1	8OZ GJ	☐	8/17/2015 10:40	5 days		☐	
1508564-019A	SB10-2.0	Soil	SW6010B (Lead)	1	8OZ GJ	☐	8/17/2015 10:25	5 days		☐	
1508564-020A	SB1-F-4.0	Soil	SW6010B (Lead)	1	8OZ GJ	☐	8/17/2015 11:00	5 days		☐	
1508564-021A	SB3-50-10-E	Soil	SW6010B (Lead)	1	8OZ GJ	☐	8/17/2015 12:00	5 days		☐	
1508564-022A	SB3-50-20-E	Soil		1	8OZ GJ	☐	8/17/2015 12:15			☑	
1508564-023A	SB3-50-10-N	Soil	SW6010B (Lead)	1	8OZ GJ	☐	8/17/2015 12:30	5 days		☐	
1508564-024A	SB3-50-20-N	Soil		1	8OZ GJ	☐	8/17/2015 12:45			☑	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

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150905 64

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH ☐ 1 DAY ☐ 2 DAY ☐ 3 DAY ☐ 5 DAY ☒

GeoTracker EDF ☐ PDF ☐ EDD ☐ Write On (DW) ☐ EQuIS ☐ 10 DAY ☐

Effluent Sample Requiring "J" flag ☐ UST Clean Up Fund Project ☐ ; Claim #_____

Report To: Michael KARA **Bill To:**

Company: ARS
PO Box 5086, Walnut Creek, CA 94596

Tele: (925) 943-7742 **E-Mail:** mmkara707@aol.com

Project #: **Project Name:**

Project Location: 9400 International, Oakley **Purchase Order#**

Sampler Signature: MKR

SAMPLE ID	Location/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	MATRIX: Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	METHOD PRESERVED: HCL	HNO_3	Other
~~SB1-SO-10-S~~															
SB1-SO-10-S		9/17	0825	1					X						
SB1-SO-20-S	*		0830												
SB1-SO-10-N			0835												
SB1-SO-20-N	*		0840												
SB1-SO-10-E			0845												
SB1-SO-20-E	*		0850												
SB2-SO-10-N			0855												
SB2-SO-20-N	*		0900												
SB2-SO-10-W			0905												

Analysis Request

BTEX & TPH as Gas (8021/ 8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)***	LUFT 5 Metals (200.8 / 6020)***	Metals (200.8 / 6020)***	Lab to Filter sample for Dissolved metals analysis	Total Lead				
															X					
															X					
															X					
															X					
															X					
															X					
															X					
															X					
															X					

****MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.**

***** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.**

Relinquished By:	Date:	Time:	Received By:
MKR	9/17/15	1600	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t°_____
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

COMMENTS:
* HOLD

PRESERVATION_____ VOAS O&G METALS OTHER HAZARDOUS: pH<2_____

page 1 of 3

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CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH ☐ 1 DAY ☐ 2 DAY ☐ 3 DAY ☐ 5 DAY ☐

GeoTracker EDF ☐ PDF ☐ EDD ☐ Write On (DW) ☐ EQuIS ☐ 10 DAY ☐

Effluent Sample Requiring "J" flag ☐ **UST Clean Up Fund Project** ☐ ; **Claim #**_____

Report To: Michael Karg **Bill To:**

Company: AKS

PO Box 5686 Walnut Creek, CA 94596

Tele: (925) 943-7742 **E-Mail:** mmkarg707@aol.com

Project #: **Project Name:**

Project Location: 9400 International Blvd **Purchase Order#**

Sampler Signature: MMR

SAMPLE ID	Location/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	MATRIX: Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	METHOD PRESERVED: HCL	HNO_3	Other	BTEX & TPH as Gas (8021/ 8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)***	LUFT 5 Metals (200.8 / 6020)***	Metals (200.8 / 6020)***	Lab to Filter sample for Dissolved metals analysis	Total Lead				
SB2-S0-20-W	*	8/17	0910	X					X																					X					
SB2-S0-25-E			0925																											X					
SB8-S0-10-W	*		~~0955~~																											X					
SB8-S0-20W	*		0950																											X					
SB8-S0-10-E			1000																											X					
SB8-S0-20-E	*		1005																											X					
SB3-S0-20-S			1015																											X					
SB11-2.0			1030																											X					
SB12-2.0			1040																											X					
SB10-2.0			1025																											X					

Analysis Request

****MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.**

***** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.**

Relinquished By:	Date:	Time:	Received By:
MMR	8/17/15	1600	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t°_____
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

COMMENTS:

* Hold

page 2 of 3

VOAS O&G METALS OTHER HAZARDOUS:
PRESERVATION_____ pH<2_____

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CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH ☐ 1 DAY ☐ 2 DAY ☐ 3 DAY ☐ 5 DAY ☒

GeoTracker EDF ☐ PDF ☐ EDD ☐ Write On (DW) ☐ EQuIS ☐ 10 DAY ☐

Effluent Sample Requiring "J" flag ☐ UST Clean Up Fund Project ☐; Claim #_____

Report To: Michael Kara **Bill To:**

Company: ARS

PO Box 5080, Walnut Creek, CA 94596

Tele: (925) 943-7742 **E-Mail:** mmkara707@aol.com

Project #: **Project Name:**

Project Location: 9400 Internationl, Oakl. **Purchase Order#**

Sampler Signature: MR

SAMPLE ID	Location/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	MATRIX: Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	METHOD PRESERVED: HCL	HNO_3	Other	BTEX & TPH as Gas (8021/ 8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)***	LUFT 5 Metals (200.8 / 6020)***	Metals (200.8 / 6020)***	Lab to Filter sample for Dissolved metals analysis	Analysis Request: Total / Lead				
SB1-F-4.0		8/17	1100	1					X																					X					
SB3-S0-10-E			1200																											X					
SB3-S0-20-E	X		1215																											X					
SB3-S0-10-N			1230																											X					
SB3-S0-20-N	X		1245																											X					

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*** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.

Relinquished By:	Date:	Time:	Received By:
MR	8/17/15	1600	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t°_____ COMMENTS:

GOOD CONDITION_____

HEAD SPACE ABSENT_____ ** HOLD

DECHLORINATED IN LAB_____

APPROPRIATE CONTAINERS_____

PRESERVED IN LAB_____

VOAS O&G METALS OTHER HAZARDOUS:

PRESERVATION_____ pH<2_____

page 3 of 3

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	**Applied Remedial Services, Inc.**	Date and Time Received:	**8/17/2015 8:10:09 PM**
Project Name:	**9400 International, Oakland**	LogIn Reviewed by:	Jena Alfaro
WorkOrder №:	**1508564** Matrix: Soil	Carrier:	Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐	
Chain of custody signed when relinquished and received?	Yes	☑	No	☐	
Chain of custody agrees with sample labels?	Yes	☑	No	☐	
Sample IDs noted by Client on COC?	Yes	☑	No	☐	
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐	
Sampler's name noted on COC?	Yes	☑	No	☐	

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA ☑
Shipping container/cooler in good condition?	Yes	☑	No	☐	
Samples in proper containers/bottles?	Yes	☑	No	☐	
Sample containers intact?	Yes	☑	No	☐	
Sufficient sample volume for indicated test?	Yes	☑	No	☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	
Sample/Temp Blank temperature	Temp:				NA ☑
Water - VOA vials have zero headspace / no bubbles?	Yes	☐	No	☐	NA ☑
Sample labels checked for correct preservation?	Yes	☑	No	☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes	☐	No	☐	NA ☑
Samples Received on Ice?	Yes	☐	No	☑	

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes	☐	No	☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes	☐	No	☐	NA ☑

** NOTE: If the "No" box is checked, see comments below.*

Comments:

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1508564 B

Report Created for: Applied Remedial Services, Inc.

P.O. Box 5086
Walnut Creek, CA 94596-1086

Project Contact: Michael F. Kara
Project P.O.:
Project Name: 9400 International, Oakland

Project Received: 08/17/2015

Analytical Report reviewed & approved for release on 09/01/2015 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

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Glossary of Terms & Qualifier Definitions

Client: Applied Remedial Services, Inc.
Project: 9400 International, Oakland
WorkOrder: 1508564

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Analytical Report

Client:	Applied Remedial Services, Inc.	**WorkOrder:**	1508564
Date Received:	8/17/15 20:10	**Extraction Method:**	SW3050B
Date Prepared:	8/31/15	**Analytical Method:**	SW6010B
Project:	9400 International, Oakland	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB1-50-20-S	1508564-002A	Soil	08/17/2015 08:30	ICP-JY	109695

Analytes	Result	RL	DF	Date Analyzed
Lead	**110**	5.0	1	09/01/2015 13:20

Surrogates	REC (%)	Limits	
	105	70-130	09/01/2015 13:20

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB1-50-20-N	1508564-004A	Soil	08/17/2015 08:40	ICP-JY	109695

Analytes	Result	RL	DF	Date Analyzed
Lead	**48**	5.0	1	09/01/2015 13:34

Surrogates	REC (%)	Limits	
	104	70-130	09/01/2015 13:34

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB1-50-20-E	1508564-006A	Soil	08/17/2015 08:50	ICP-JY	109695

Analytes	Result	RL	DF	Date Analyzed
Lead	**110**	5.0	1	09/01/2015 13:37

Surrogates	REC (%)	Limits	
	112	70-130	09/01/2015 13:37

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB2-50-20-N	1508564-008A	Soil	08/17/2015 09:00	ICP-JY	109695

Analytes	Result	RL	DF	Date Analyzed
Lead	**290**	5.0	1	09/01/2015 13:44

Surrogates	REC (%)	Limits	
	110	70-130	09/01/2015 13:44

Analyst(s): BBO

(Cont.)

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Analytical Report

Client:	Applied Remedial Services, Inc.	**WorkOrder:**	1508564
Date Received:	8/17/15 20:10	**Extraction Method:**	SW3050B
Date Prepared:	8/31/15	**Analytical Method:**	SW6010B
Project:	9400 International, Oakland	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB2-50-20-W	1508564-010A	Soil	08/17/2015 09:10	ICP-JY	109695

Analytes	Result	RL	DF	Date Analyzed
Lead	**120**	5.0	1	09/01/2015 13:46

Surrogates	REC (%)	Limits	
	112	70-130	09/01/2015 13:46

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB8-50-20-W	1508564-013A	Soil	08/17/2015 09:50	ICP-JY	109695

Analytes	Result	RL	DF	Date Analyzed
Lead	**170**	5.0	1	09/01/2015 13:49

Surrogates	REC (%)	Limits	
	109	70-130	09/01/2015 13:49

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB8-50-20-E	1508564-015A	Soil	08/17/2015 10:05	ICP-JY	109695

Analytes	Result	RL	DF	Date Analyzed
Lead	**150**	5.0	1	09/01/2015 13:51

Surrogates	REC (%)	Limits	
	109	70-130	09/01/2015 13:51

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB3-50-20-E	1508564-022A	Soil	08/17/2015 12:15	ICP-JY	109695

Analytes	Result	RL	DF	Date Analyzed
Lead	**200**	5.0	1	09/01/2015 13:54

Surrogates	REC (%)	Limits	
	109	70-130	09/01/2015 13:54

Analyst(s): BBO

(Cont.)

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Analytical Report

Client:	Applied Remedial Services, Inc.	**WorkOrder:**	1508564
Date Received:	8/17/15 20:10	**Extraction Method:**	SW3050B
Date Prepared:	8/31/15	**Analytical Method:**	SW6010B
Project:	9400 International, Oakland	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB3-50-20-N	1508564-024A	Soil	08/17/2015 12:45	ICP-JY	109695

Analytes	Result	RL	DF	Date Analyzed
Lead	**57**	5.0	1	09/01/2015 13:56

Surrogates	REC (%)	Limits	
	113	70-130	09/01/2015 13:56

Analyst(s): BBO

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Quality Control Report

Client:	Applied Remedial Services, Inc.	**WorkOrder:**	1508564
Date Prepared:	8/31/15	**BatchID:**	109695
Date Analyzed:	9/1/15	**Extraction Method:**	SW3050B
Instrument:	ICP-JY	**Analytical Method:**	SW6010B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	9400 International, Oakland	**Sample ID:**	MB/LCS-109695 1508564-002AMS/MSD

QC Summary Report for Lead

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND	47.3	5.0	50	-	95	75-125
Surrogate Recovery							
	495	521		500	99	104	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	NR	NR	50	106.7	NR	NR	75-125	NR	25
Surrogate Recovery									
	542	543	500		108	109	70-130	0.184	20

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1508564 B **ClientCode: ARSB**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Michael F. Kara
Applied Remedial Services, Inc.
P.O. Box 5086
Walnut Creek, CA 94596-1086
707-748-4205 FAX: 707-748-4207

Email: mmkara707@aol.com
cc/3rd Party:
PO:
ProjectNo: 9400 International, Oakland

Bill to:
Accounts Payable
Applied Remedial Services, Inc.
P.O. Box 5086
Walnut Creek, CA 94596-1086

Requested TAT: 2 days;

Date Received: **08/17/2015**
Date Add-On: **08/31/2015**
Date Printed: **08/31/2015**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1508564-002	SB1-50-20-S	Soil	8/17/2015 8:30	☐	A											
1508564-004	SB1-50-20-N	Soil	8/17/2015 8:40	☐	A											
1508564-006	SB1-50-20-E	Soil	8/17/2015 8:50	☐	A											
1508564-008	SB2-50-20-N	Soil	8/17/2015 9:00	☐	A											
1508564-010	SB2-50-20-W	Soil	8/17/2015 9:10	☐	A											
1508564-013	SB8-50-20-W	Soil	8/17/2015 9:50	☐	A											
1508564-015	SB8-50-20-E	Soil	8/17/2015 10:05	☐	A											
1508564-022	SB3-50-20-E	Soil	8/17/2015 12:15	☐	A											
1508564-024	SB3-50-20-N	Soil	8/17/2015 12:45	☐	A											

Test Legend:

1	PB_S	2		3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Jena Alfaro

Add-On Prepared By: Jena Alfaro

Comments: STLCs Pb and TCLPs Pb added 8/26/15 1D TAT. TTLC Pb added to samples on hold 8/31/15 2D TAT

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: APPLIED REMEDIAL SERVICES, INC.
Project: 9400 International, Oakland
Comments: STLCs Pb and TCLPs Pb added 8/26/15 1D TAT. TTLC Pb added to samples on hold 8/31/15 2D TAT

QC Level: LEVEL 2
Client Contact: Michael F. Kara
Contact's Email: mmkara707@aol.com

Work Order: 1508564
Date Received: 8/17/2015
Date Add-On: 8/31/2015

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1508564-002A	SB1-50-20-S	Soil	SW6010B (Lead)	1	8OZ GJ	8/17/2015 8:30	2 days		☐	
1508564-004A	SB1-50-20-N	Soil	SW6010B (Lead)	1	8OZ GJ	8/17/2015 8:40	2 days		☐	
1508564-006A	SB1-50-20-E	Soil	SW6010B (Lead)	1	8OZ GJ	8/17/2015 8:50	2 days		☐	
1508564-008A	SB2-50-20-N	Soil	SW6010B (Lead)	1	8OZ GJ	8/17/2015 9:00	2 days		☐	
1508564-010A	SB2-50-20-W	Soil	SW6010B (Lead)	1	8OZ GJ	8/17/2015 9:10	2 days		☐	
1508564-013A	SB8-50-20-W	Soil	SW6010B (Lead)	1	8OZ GJ	8/17/2015 9:50	2 days		☐	
1508564-015A	SB8-50-20-E	Soil	SW6010B (Lead)	1	8OZ GJ	8/17/2015 10:05	2 days		☐	
1508564-022A	SB3-50-20-E	Soil	SW6010B (Lead)	1	8OZ GJ	8/17/2015 12:15	2 days		☐	
1508564-024A	SB3-50-20-N	Soil	SW6010B (Lead)	1	8OZ GJ	8/17/2015 12:45	2 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

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1508564

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH ☐ 1 DAY ☐ 2 DAY ☐ 3 DAY ☐ 5 DAY ☒

GeoTracker EDF ☐ PDF ☐ EDD ☐ Write On (DW) ☐ EQuIS ☐ 10 DAY ☐

Effluent Sample Requiring "J" flag ☐ **UST Clean Up Fund Project** ☐**; Claim #**______

Report To: Michael KARA **Bill To:**
Company: ARS
PO Box 5086, Walnut Creek, CA 94596
Tele: (925) 943.7742 **E-Mail:** mmkara707@aol.com
Project #: **Project Name:**
Project Location: 9400 International, Oakland **Purchase Order#**
Sampler Signature: MKR

Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	MATRIX Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	METHOD PRESERVED HCL	HNO_3	Other	BTEX & TPH as Gas (8021/ 8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)***	LUFT 5 Metals (200.8 / 6020)***	Metals (200.8 / 6020)***	Lab to Filter sample for Dissolved metals analysis	Total Lead	STLC Pb 8/26/15 BD		TTLC lead BD 8-31-15	
SB1-SO-10-S		8/17	0825	1					X																						X	⊕			
SB1-SO-20-S	*	↓	0830	↓					↓																						X	·		(X)	
SB1-SO-10-N			0835																												X	·			
SB1-SO-20-N	*		0840																												X	·		(X)	
SB1-SO-10-E			0845																												X	⊕			
SB1-SO-20 E	*		0850																												X			(X)	
SB2-SO-10-N			0855																												X	⊕			
SB2-SO-20-N	*		0900																												X			(X)	
SB2-SO-10-W		↓	0905	↓					↓																						X	⊕			

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

*** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.

Relinquished By:	Date:	Time:	Received By:
MKR	8/17/15	1600	[signature]

ICE/t°______
GOOD CONDITION______
HEAD SPACE ABSENT______
DECHLORINATED IN LAB______
APPROPRIATE CONTAINERS______
PRESERVED IN LAB______

VOAS O&G METALS OTHER
PRESERVATION____________ pH<2______________

COMMENTS:
* HOLD

page 1 of 3

HAZARDOUS:

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CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH ☐ 1 DAY ☐ 2 DAY ☐ 3 DAY ☐ 5 DAY ☐

GeoTracker EDF ☐ PDF ☐ EDD ☐ Write On (DW) ☐ EQuIS ☐ 10 DAY ☐

Effluent Sample Requiring "J" flag ☐ **UST Clean Up Fund Project** ☐ ; **Claim #**_____

Report To: Michael Kara **Bill To:**

Company: AKS
PO Box 5686 Walnut Creek, CA 94596

Tele: (925) 943-7742 **E-Mail:** mmkara7672@aol.com

Project #: **Project Name:**

Project Location: 9400 International Blvd **Purchase Order#**

Sampler Signature: MMR

SAMPLE ID	Location/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	MATRIX: Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	METHOD PRESERVED: HCL	HNO_3	Other
SB2-S0-20-W	*	8/17	0910	X					X						
SB2-S0-25-E			0925												
SB8-S0-10-W	*		0955												
SB8-S0-20-W	*		0950												
SB8-S0-10-E			1000												
SB8-S0-20-E	*		1005												
SB3-S0-20-S			1015												
SB11-2.0			1030												
SB12-2.0			1040												
SB10-2.0			1025												

Analysis Request

BTEX & TPH as Gas (8021/ 8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)***	LUFT 5 Metals (200.8 / 6020)***	Metals (200.8 / 6020)***	Lab to Filter sample for Dissolved metals analysis	Total Lead	STLC Pb	TCLP Pb	TTLC Pb 3 days 8-31-15
															X			X
															X	⊗	⊗	
															X	⊗		(X)
															X	⊗		
															X	⊗		
															X	⊗		(X)
															X	⊗		
															X			
															X			
															X			

****MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.**

***** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.**

Relinquished By:	Date:	Time:	Received By:
MMR	8/17/15	1600	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t°_____
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

COMMENTS:

* Hold

page 2 of 3

VOAS O&G METALS OTHER HAZARDOUS:
PRESERVATION_____ pH<2_____

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CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH ☐ 1 DAY ☐ 2 DAY ☐ 3 DAY ☐ 5 DAY ☒

GeoTracker EDF ☐ PDF ☐ EDD ☐ Write On (DW) ☐ EQuIS ☐ 10 DAY ☐

Effluent Sample Requiring "J" flag ☐ **UST Clean Up Fund Project** ☐ ; **Claim #**_____

Report To: Michael Kara **Bill To:**

Company: ARS

PO Box 5080, Walnut Creek, CA 94596

Tele: (925) 943-7742 **E-Mail:** mm.kara707@aol.com

Project #: **Project Name:**

Project Location: 9400 Interchange, Oakl. **Purchase Order#**

Sampler Signature: MKR

SAMPLE ID	Location/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	MATRIX: Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	METHOD PRESERVED: HCL	HNO_3	Other
SB1-F-4.0		8/17	1100	1					X						
SB3-S0-10-E			1200												
SB3-S0-20-E	X		1215												
SB3-S0-10-N			1230												
SB3-S0-20-N	X		1245												

Analysis Request

BTEX & TPH as Gas (8021/ 8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)***	LUFT 5 Metals (200.8 / 6020)***	Metals (200.8 / 6020)***	Lab to Filter sample for Dissolved metals analysis	Total Lead	SIZE-Pb		TTLC Pb 2D 8-31-15	
															X				
															X	⊗		(X)	
															X				
															X	⊗			
															X			(X)	

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

*** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.

Relinquished By:	Date:	Time:	Received By:
MKR	8/17/15	1600	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t°_____
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

COMMENTS: # HOLD

VOAS O&G METALS OTHER HAZARDOUS:
PRESERVATION_____ pH<2_____

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