

January 13, 2016  
Project No. 402654001

Mr. Tyler Hester  
Superintendent  
Turner Construction Company  
707 53<sup>rd</sup> Street  
Oakland, California 94609



Subject: Soil Sampling and Characterization Report  
UCSF Benioff Children's Hospital Outpatient 2 Clinic  
747 52<sup>nd</sup> Street, Oakland, California

Dear Mr. Hester:

Ninyo & Moore is pleased to submit to Turner Construction Company (Turner) this Soil Sampling and Characterization Report for the UCSF Benioff Children's Hospital Outpatient 2 Clinic project located in the vicinity of 747 52<sup>nd</sup> Street in Oakland, California (Figure 1). The following sections of this report include site background information, project coordination and field activities, sample analytical results and conclusions and recommendations.

## **PROJECT BACKGROUND**

Turner is currently involved in the construction phase of the UCSF Benioff Children's Hospital Outpatient 2 Clinic project. Construction activities include installation of an underground storage tank (UST), construction of the Outpatient 2 Clinic building, service yard paving and utility trenching. The Outpatient 2 Clinic building and UST and service yard will be constructed at the locations shown on Figure 2. As part of the construction activities, Turner will excavate and direct load existing soil for off Site transport from the UST and service yard area, and the clinic building location. Because the Site does not have adequate space to stockpile excavated soil, Turner requested Ninyo & Moore to collect in-situ samples in order to provide their soil transporter analytical data for assessing offsite disposal options. Ninyo & Moore additionally collected soil samples from a small stockpile generated by Turner from excavating the project's utility trenches.

Turner's planned soil excavation areas include the following:

- **Service Yard:** the service yard is approximately 4,200 square feet and will require an excavation depth of approximately 1.5 feet, which corresponds to 223 in-situ cubic yards (cy).
- **UST:** the UST excavation will be performed within the Service Yard area and is planned to be 16 feet by 36 feet by 16 feet deep, which corresponds to 341 in-situ cy.
- **Clinic Building:** the clinic building is approximately 15,900 square feet and will require an excavation depth of approximately 1.5 feet, which corresponds to 883 in-situ cy. In addition, 83, 2-foot diameter piers will be drilled up to 75 feet deep, with the majority drilled approximately 45 feet deep, removing approximately an additional 500 cy of soil.

In addition to the planned excavations, a soil stockpile of approximately 250 cy in volume was generated on site from a utility trench excavation adjacent to Martin Luther King Jr. Way.

## **SCOPE OF SERVICES**

Ninyo & Moore's scope of services included project coordination, pre-field activities, in-situ and stockpile soil sample collection, laboratory analysis, and report preparation. A more detailed discussion of the tasks provided is below.

### **Project Coordination**

Ninyo & Moore performed the following project coordination tasks:

- Arranging the field activities with Turner;
- Preparing a site-specific health and safety plan;
- Obtaining a drilling permit from Alameda County Public Works Agency, Water Resources Division (ACPWA);
- Subcontracting a California C-57 licensed environmental driller (PeneCore Drilling) to advance the soil borings required to collect the in-situ soil characterization samples from the UST location and two representative pier locations for the clinic building;
- Subcontracting a private utility locator (Cruz Brothers Locators) to scan each boring location of the potential presence of subsurface utilities;
- Performing Underground Service Alert (USA) notification as required by California law;

- Coordinating with the California-certified analytical laboratory (TestAmerica Laboratories);
- Procuring the field sampling supplies;
- Conducting a site reconnaissance to mark out the sampling locations; and,
- Providing project management services.

### **Soil Sampling and Analysis**

Ninyo & Moore conducted the in-situ and stockpile soil sampling activities on November 18 and 19, 2015. Soil samples were collected following the California Department of Toxic Substances Control (DTSC) *Information Advisory Clean Imported Fill Material*, dated October 2001.

Shallow soil samples were collected using a hand auger, and deeper soil and groundwater samples were collected using a direct-push technology drill rig. All reusable sampling equipment was decontaminated between sampling locations using either a steam cleaner or a liquinox wash and distilled water rinse. Once samples were collected they were stored in a cooler on ice and transported via courier under chain of custody documentation to TestAmerica Laboratories, Inc. (TestAmerica) in Pleasanton, California. Sample locations are identified on Figures 2 and 3.

### ***Sampling Areas***

#### **Service Yard**

The service yard's excavation is planned to extend no more than 2 feet below ground service (bgs), and therefore, in-situ soil samples were collected using a hand-auger. The DTSC's guidance requires one soil samples to characterize up to 250 cy of soil. Therefore, in order to collect the required in-situ soil characterization samples, this excavation area was divided into four quadrants, with one discrete soil sample collected from each quadrant at depths between 0 to 2 feet bgs.

The four discrete soil samples were composited by TestAmerica, with the four-point composite sample (SY-1-1, SY-2-1, SY-3-1, SY-4-2) analyzed for:

- organochlorine pesticides (OCPs) using United States Environmental Protection Agency (USEPA) Method 8081A;
- polychlorinated biphenyls (PCBs) using USEPA Method 8082;
- Total petroleum hydrocarbons as diesel (TPHd) and TPH as motor oil (TPHmo) using USEPA Method 8015B, with the samples prepared with silica-gel cleanup using USEPA Method 3630C;
- California Title 22 Metals using USEPA Method 6010B/7471A<sup>1</sup>; and
- Asbestos using CARB Method 435.

One discrete soil sample (sample number SY-1-1) was analyzed for volatile organic compounds (VOCs) and total petroleum hydrocarbons as gasoline (TPHg) using USEPA Method 8260B, and semi-volatile organic compounds (SVOCs) using USEPA Method 8270C.

### **UST Excavation**

The UST excavation will extend 16 feet bgs within the Service Yard. Soil samples were collected from borings B-3 and B-4 advanced within the footprint of this planned excavation at depths of 1, 7, 11 and 15 feet bgs from B-3, and at 1, 5, 10, and 15 feet bgs from B-4. A grab-groundwater sample was also collected from boring B-3, which was advanced a total of 22 feet bgs.

The soil samples were analyzed as follows:

- Two discrete soil samples, one from boring B-3 at 15 feet bgs (B-3-15) and one from boring B-4 at 1 foot bgs (B-4-1), were analyzed for VOCs and TPHg using USEPA Method 8260B, and SVOCs using USEPA Method 8270C. A discrete soil sample was collected from boring B-3 at 15 feet bgs because there was no evidence of impacts to shallower soils and a low permeability silt lens was observed at that depth. The 1 foot bgs soil sample from boring B-3 (B-3-1) was also analyzed for OCPs using USEPA Method 8081A, and PCBs using USEPA Method 8082.

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<sup>1</sup> Metals include: antimony; arsenic; barium; beryllium; cadmium; chromium; cobalt; copper; lead; mercury; molybdenum; nickel; selenium; silver; thallium; vanadium; and zinc.

- The four discrete samples respectively collected from B-3 and B-4 were composited by TestAmerica, with the resulting two four-point composite samples (B-3-1,-7,-11,-15 and B-4-1,-5,-10,-15) analyzed for:
  - TPHd and TPHmo using USEPA Method 8015B, with samples prepared with silica-gel cleanup using USEPA Method 3630C;
  - California Title 22 Metals using USEPA Method 6010B/7471A; and
  - Asbestos using CARB Method 435.

The grab groundwater sample was analyzed for the following:

- VOCs using USEPA Method 8260B;
- TPHg, TPHd and TPHmo using USEPA Method 8015B, with the TPHd and TPHmo samples prepared with silica-gel cleanup using USEPA Method 3630C; and,
- California Title 22 Metals (dissolved) using USEPA Method 6010B/7471A.

### **Clinic Building**

The construction of the clinic building will generate two sources of soil, one from the building's foundation excavation and a second from the drilling of the building's piers. The clinic building's foundation excavation is planned to extend no more than 2 feet bgs, and therefore, in-situ soil samples were collected using a hand-auger. The DTSC's guidance requires four soil samples to characterize up to 1,000 cy of soil. Therefore, in order to collect the required in-situ soil characterization samples, the excavation area was divided into four quadrants, with each quadrant subsequently divided into four subquadrants. One discrete soil sample was collected from each subquadrant from depths between 0 and 2 feet bgs.

The foundation excavation soil samples were analyzed as follows:

- Four discrete soil samples, one per quadrant (S-1-A-2, S-2-A-2, S-3-A-2, and S-4-A-2), were analyzed for TPHg and VOCs using USEPA Method 8260B and SVOCs using USEPA Method 8270C.
- The four discrete soil samples collected from each quadrant were composited by TestAmerica, resulting in one four-point composite sample per quadrant (S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1; S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5; S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1; and S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5) analyzed for:

- OCPs using USEPA Method 8081A;
- PCBs using USEPA Method 8082;
- TPHd and TPHmo using USEPA Method 8015B, with the samples prepared with silica-gel cleanup using USEPA Method 3630C;
- California Title 22 Metals using USEPA Method 6010B/7471A; and
- Asbestos using CARB Method 435.

The construction of the clinic building will include the drilling of 83 piers, which requires the collection of deeper soil sample. The DTSC's guidance requires two samples to characterize up to 500 cy of soil. In order to provide Turner the in-situ soil characterization data required, one soil borings was (B-1) was advanced 20 feet bgs and a second (B-2) was advanced 26 feet bgs in representative pier locations. Four discrete soil samples were collected per boring, with one discrete soil sample collected representing each 5 vertical feet of boring. The discrete soil samples were collected from depths of 3, 7, 13 and 20 feet from B-1, and 3, 7, 15 and 18 feet from B-2. A grab groundwater sample was also collected from B-2, which was advanced a total of 26 feet bgs.

The soil samples were analyzed as follows:

- Two discrete soil samples, one from boring B-1 at 3 feet bgs (B-1-3) and one from boring B-2 at 15 foot bgs (B-2-15), were analyzed for VOCs and TPHg using USEPA Method 8260B, and SVOCs using USEPA Method 8270C. A discrete soil sample was collected from boring B-2 at 15 feet bgs because there was discoloration and a low permeability silt lens observed at that depth. Sample (B-1-3) was also analyzed for OCPs using USEPA Method 8081A, and PCBs using USEPA Method 8082.
- The four discrete samples collected from B-1 and B-2 were respectively composited by TestAmerica, with the resulting two four-point composite samples (B -1-3, -7,-13, -20 and B-2-3, -7, -15, -18) analyzed for:
  - TPHd and TPHmo using USEPA Method 8015B, with the samples prepared with silica-gel cleanup using USEPA Method 3630C;
  - California Title 22 Metals using USEPA Method 6010B/7471A; and
  - Asbestos using CARB Method 435.

The grab groundwater sample was analyzed for the following:

- VOCs using USEPA Method 8260B;
- TPHg, TPHd and TPHmo using USEPA Method 8015B, with the TPHd and TPHmo samples prepared with silica-gel cleanup using USEPA Method 3630C; and,
- California Title 22 Metals (dissolved) using USEPA Method 6010B/7471A.

### **Utility Trench**

The utility trench samples were collected from a stockpile generated from previously performed excavation activities. Because this stockpile was less than 250 cy, per the DTSC's guidance, it was characterized as follows:

- One discrete soil sample was analyzed for VOCs and TPHg using USEPA Method 8260B, and SVOCs using USEPA Method 8270C.
- Four discrete soil samples were collected from the stockpile and composited by TestAmerica, with the resulting four-point composite sample analyzed for:
  - OCPs using USEPA Method 8081A;
  - PCBs using USEPA Method 8082;
  - TPHd and TPHmo using USEPA Method 8015B, with the samples prepared with silica-gel cleanup using USEPA Method 3630C;
  - California Title 22 Metals using USEPA Method 6010B/7471A; and
  - Asbestos using CARB Method 435.

### **Additional Sample Analysis**

Additional arsenic and lead analysis was conducted on composite sample S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5 collected from the northeast quadrant in the Clinic Building area for waste characterization purposes. Further sampling and analysis for lead (sample numbers CSS-1 through CSS-3) was conducted on January 11<sup>th</sup>, 2016 within the same quadrant to determine the boundaries of hazardous waste reported in the area.



## **SOIL AND GROUNDWATER SAMPLE ANALYTICAL RESULTS**

The results of the collected soil and groundwater sampling were compared to: 1) soil - Soluble Threshold Limit Concentration (STLC), per the Official California Code of Regulations (CCR), Title 22, Division 4.5, Ch. 11, Characteristics of Hazardous Waste guidelines; and 2) groundwater - East Bay Municipal Utility District (EBMUD) Ordinance No. 311A-03, dated July 2010. Soil results were compared to the hazardous waste guidelines to evaluate waste characterization for disposal purposes, and groundwater results were compared to the EBMUD Ordinance (Ordinance) for wastewater discharge acceptance criteria to their sanitary sewer system. Soil and groundwater sample analytical data is tabulated in Tables 1 through 5, and copies of the certified laboratory analytical reports are attached to this report.

### ***Total Petroleum Hydrocarbons as Gasoline and Volatile Organic Compounds-Soil***

One of the 10 discrete samples, SY-1-1, contained TPHg and VOCs at concentrations greater than laboratory reporting limits (detected at 380 micrograms per kilogram,  $\mu\text{g}/\text{kg}$ , or parts per billion, ppb). The only VOC detected at concentrations greater than laboratory reporting limits was toluene (23  $\mu\text{g}/\text{kg}$  in B-4-1, and 81  $\mu\text{g}/\text{kg}$  in SY-1-1). Hazardous waste guidelines have not been established for either TPHg or toluene. TPHg and VOC soil sample analytical results are presented in Table 1.

### ***Total Petroleum Hydrocarbons as Gasoline and Volatile Organic Compounds-Groundwater***

Neither TPHg nor VOCs were detected at concentrations exceeding laboratory reporting limit in the groundwater sample collected from boring B-2, with the exception of toluene detected 4.3 micrograms per liter ( $\mu\text{g}/\text{L}$  or ppb). Several compounds were detected above the laboratory reporting limit from the groundwater sample collected from boring B-3 including: TPHg at 52  $\mu\text{g}/\text{L}$ , toluene at 3.8  $\mu\text{g}/\text{L}$ ; and tetrachloroethylene (PCE) at 44  $\mu\text{g}/\text{L}$ . The relevant Ordinance compounds used for comparison include total chlorinated hydrocarbons (for comparison to PCE); toluene does not have a wastewater limit established by the Ordinance. Neither of the Ordinance compounds were exceeded in the detected groundwater concentrations. TPHg and VOC groundwater sample analytical results are presented in Table 2.



### ***Total Petroleum Hydrocarbons as Diesel and Motor Oil-Soil***

TPHd was reported above laboratory reporting limits in composite samples S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1; S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5; S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1; S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5; SY-1-1, SY-2-1, SY-3-1, SY-4-2; B-2-3,-7,-15,-18; B-4-1,-5,-10,-15; and SP-1A,-1B,-1C,-1D ranging from 1.3 milligrams per kilogram (mg/kg, or parts per million, ppm) to 170 mg/kg. TPHmo was reported above laboratory reporting limits in composite samples S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1; S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5; S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5; SY-1-1, SY-2-1, SY-3-1, SY-4-2; B-4-1,-5,-10,-15; and SP-1A,-1B,-1C,-1D ranging from 85 mg/kg to 870 mg/kg. Hazardous waste guidelines have not been established for either TPHd or TPHmo. TPHd and TPHmo soil sample analytical results are presented in Table 1.

### ***Total Petroleum Hydrocarbons as Diesel and Motor Oil-Groundwater***

Neither TPHd nor TPHmo were detected at concentrations exceeding laboratory reporting limit in the groundwater sample collected from boring B-2. In contrast, TPHd was reported at 220 µg/L and TPHmo was reported at 930 µg/L in the sample collected from Boring B-3. The relevant Ordinance compounds used for comparison to TPHd and TPHmo are oil and grease, and neither the individual or combined concentrations of TPHd and TPHmo exceed the Ordinance value of 100,000 µg/L. TPHd and TPHmo groundwater sample analytical results are presented in Table 2.

### ***California Title 22 Metals-Soil***

Several California Title 22 Metals were reported above laboratory reporting limits in soil samples collected including arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, vanadium and zinc. California Title 22 Metal concentrations were compared to the hazardous waste guidelines. For offsite disposal/reuse considerations, analytical soil results are assessed to identify potential hazardous waste using the following two industry rule-of-thumbs:

- Comparing detected concentrations to 10-times the California Soluble Threshold Limit Concentration (STLC), with further analysis warranted using the California Waste Extraction Test (WET) should this screening limit be exceeded;<sup>2</sup> and
- Comparing the detected concentrations to 20-times the federal Toxicity Concentration Leaching Procedure (TCLP), with further analysis warranted using TCLP should this screening limit be exceeded.<sup>3</sup>

According to these rules-of-thumb, the detected lead concentrations exceeded potential hazardous waste screening limits in composite samples S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1; S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5; and S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5 from the Clinic Building area and SY-1-1, SY-2-1, SY-3-1, SY-4-2 from the Service and UST area. All four composite samples were further analyzed for CAWET lead, with sample SY-1-1, SY-2-1, SY-3-1, SY-4-2 additionally analyzed for TCLP lead. S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5 reported a CA WET lead concentration of 9.8 milligrams per liter (mg/L), which exceeds the lead STLC of 5 mg/L. Therefore, a request was made to TestAmerica to further analyze each of the four discrete soil samples collected within this (northeast) quadrant for CA WET lead. The results of this subsequent analysis reported only one of the discrete samples as containing soluble lead exceeding its STLC. Sample S-2-A-2, collected from the soil representing the northwest quarter of this quadrant, reported a CA WET lead concentration of 16 mg/L. Given the STLC exceedance, this discrete sample analyzed for TCLP lead to assess whether this soil would also be characterized as RCRA hazardous waste. The test result was not detected above the reporting limit of 0.5 mg/L, and was far below the TCLP threshold of 5 mg/L, so the waste is considered non-RCRA hazardous. To further define the limits of hazardous waste within the northwest sub-quadrant, three additional samples (CSS-1 through CSS-3) were collected within the north section of the northwest sub-quadrant and analyzed for lead. The analytical results ranged between 9.5 and 17 mg/kg.

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<sup>2</sup> If a STLC is exceeded, the soil is to be profiled for offsite disposal as California hazardous waste.

<sup>3</sup> If a TCLP is exceeded, the soil is to be profiled for offsite disposal as Resource Conservation and Recovery Act (RCRA) hazardous waste.

In addition to the additional lead analysis, the four discrete samples from the northeast quadrant (S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5) were also analyzed for arsenic because of the elevated concentration in the composite sample (20 mg/kg). The four discrete sample results ranged between 6.0 and 6.9 mg/kg. California Title 22 Metal soil sample analytical results are presented in Table 3.

#### ***California Title 22 Metals-Groundwater***

Several California Title 22 Metals were detected at concentrations greater than laboratory reporting limits in the two grab groundwater samples collected, including barium, molybdenum and zinc in borings B-2 and B-3, and cobalt in boring B-2. None of the detected metal concentrations exceeded their respective EBMUD Ordinance wastewater limit. California Title 22 Metals groundwater sample analytical results are presented in Table 4.

#### ***Organochlorine Pesticides – Soil Only***

A few OCPs were detected at concentrations exceeding laboratory reporting limits, including: 4,4'-DDD; 4,4'-DDE; 4,4'-DDT; Dieldrin; alpha-Chlordane; gamma-Chlordane; Chlordane (technical); alpha-BHC; beta-DHC; Endosulfan I; and Endosulfan II. None of the detected OCP concentrations exceeded the two industry rules-of-thumb used to assess for potential hazardous waste. OCP soil sample analytical results are presented in Table 5.

#### ***Semi-Volatile Organic Compounds- Soil Only***

SVOCs were not detected at concentrations exceeding laboratory reporting limits in any samples collected.

#### ***Polychlorinated Biphenyls – Soil Only***

PCBs were not detected at concentrations exceeding laboratory reporting limits in any samples collected.

### ***Asbestos-Soil Only***

Asbestos was not detected at concentrations exceeding the CARB 435 practical quantitation limit in any of the samples collected.

### **CONCLUSIONS**

All but one of the 10 soil samples collected either did not contain chemical concentration exceeding laboratory reporting limits, or, if reporting limits were exceeded, then less than the industry rules-of-thumb relied upon to assess potential hazardous waste. The one exception is sample S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5 in the clinic area, which contained soluble lead at a concentration exceeding the STLC limit of 5 mg/L. The four discrete samples that made up the composite were further analyzed using CA WET to determine which portion of quadrant contributed to this exceedance. Only sample S-2-A-2, representing the northwest quarter of this quadrant exceeded the lead STLC. This sample was re-analyzed for the TCLP, and the results were non detect (below the reporting limit of 0.5 mg/L), classifying the waste as non-RCRA hazardous. The same discrete samples were analyzed for arsenic (due to an elevated arsenic concentration in the composite sample) and the resulting analysis indicated that all four samples were below the Regional Water Quality Control Board accepted Duverge<sup>4</sup> background concentration of 11 mg/kg.

To further define the limits of hazardous waste within the northwest sub-quadrant of quadrant S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5, three additional samples (CSS-1 through CSS-3) were collected within the north section of this sub-quadrant and analyzed for lead. The analytical results ranged between 9.5 and 17 mg/kg. Based on these results, the area originally designated as non-RCRA hazardous was reduced by half.

Based on the information discussed above, all soil to be excavated from the service yard and UST Area, utility trench soil stockpile area, and clinic building area, with the exception of the clinic building area's southern section of the northwest sub-quadrant to the northeast quadrant S-

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<sup>4</sup> Duverge - Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region, dated December 2011.

2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5, can be transported offsite for reuse or disposal as non-hazardous waste. See Figure 4 for the recommended waste characterization boundaries.

All groundwater samples contained chemical concentrations either below the respective laboratory reporting limits, or if the reporting limits were exceeded, then below those relevant compounds' wastewater limits established in the EBMUD Ordinance guidelines for discharging to their sanitary sewer system. If Turner is planning on discharging site groundwater to the EBMUD sanitary sewer system during dewatering activities, an EBMUD Special Discharge Permit will need to be obtained prior to discharge activities commencing.

## **LIMITATIONS**

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard-of-care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report. Variations in site conditions may exist and conditions not observed or described in this report may be encountered during subsequent activities. Please also note that this study did not include an evaluation of geotechnical conditions or potential geologic hazards.

Ninyo & Moore's opinions and recommendations regarding environmental conditions, as presented in this report, are based on limited subsurface assessment and chemical analysis. Further assessment of potential adverse environmental impacts from past on-site and/or nearby use of hazardous materials may be accomplished by a more comprehensive assessment. The samples collected and used for testing, and the observations made, are believed to be representative of the area(s) evaluated; however, conditions can vary significantly between sampling locations. Variations in soil and/or groundwater conditions will exist beyond the points explored in this evaluation.

The environmental interpretations and opinions contained in this report are based on the results of laboratory tests and analyses intended to detect the presence and concentration of specific chemical or physical constituents in samples collected from the subject site. The testing and analyses have been conducted by an independent laboratory which is certified by the State of California to conduct such tests. Ninyo & Moore has no involvement in, or control over, such testing and analysis. Ninyo & Moore, therefore, disclaims responsibility for any inaccuracy in such laboratory results.

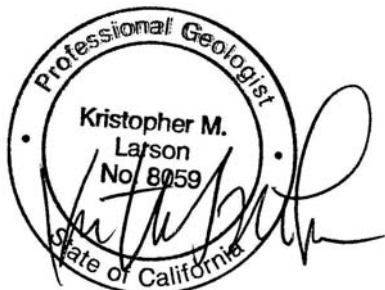
Our conclusions, recommendations, and opinions are based on an analysis of the observed site conditions. It should be understood that the conditions of a site could change with time as a result of natural processes or the activities of man at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no control.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo & Moore should be contacted if the reader requires any additional information, or has questions regarding content, interpretations presented, or completeness of this document.

This report is intended exclusively for use by the client. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than the client is undertaken at said parties' sole risk.

Ninyo & Moore appreciates the opportunity to provide the Turner this Soil and Groundwater Sampling Letter Report. If you have additional questions or comments, please contact either of the undersigned at (510) 343-3000.

Sincerely,  
**NINYO & MOORE**



Kristopher M. Larson, PG 8059  
Principal Geologist

A handwritten signature in blue ink, appearing to read "Jason Grant".

Jason Grant, PE  
Senior Engineer



KML/JG/vmp

Attachments: Figures:

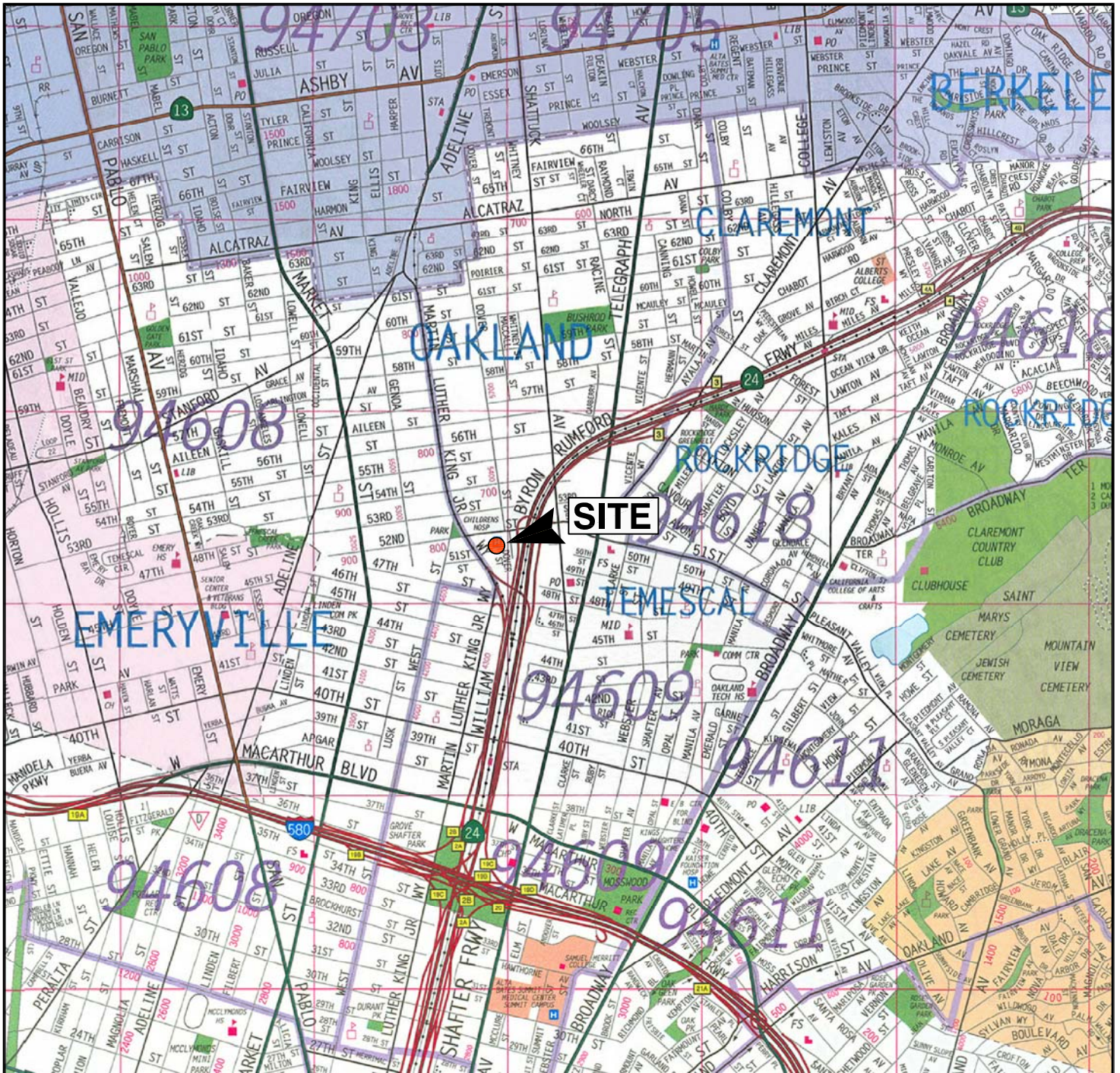
- Figure 1 – Site Location
- Figure 2 – Soil Boring Locations
- Figure 3 – Composite Sample Locations
- Figure 4 – Recommended Waste Characterization Boundaries

Tables:

- Table 1 – Total Petroleum Hydrocarbons as Diesel and Motor Oil and Volatile Organic Compounds Soil Sample Analytical Data
- Table 2 – Total Petroleum Hydrocarbons as Diesel and Motor Oil and Volatile Organic Compounds Groundwater Sample Analytical Data
- Table 3 – California Title 22 Metals Soil Sample Analytical Results
- Table 4 – California Title 22 Metals Groundwater Sample Analytical Data
- Table 5 – Organochlorine Pesticide Soil Sample Analytical Results

Appendix A – TestAmerica Laboratory Analytical Reports

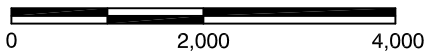




REFERENCE: METRO AREAS OF ALAMEDA, CONTRA COSTA, MARIN, SAN FRANCISCO, SAN MATEO, AND SANTA CLARA COUNTIES, THOMAS GUIDE, 2008.



SCALE IN FEET



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

**Ninyo & Moore**

**SITE LOCATION**

FIGURE

PROJECT NO.  
402654001

DATE  
1/16

UCSF BENIOFF CHILDREN'S HOSPITAL OUTPATIENT 2 CLINIC  
747 52ND STREET  
OAKLAND, CALIFORNIA

**1**

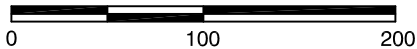




REFERENCE: GOOGLE EARTH IMAGERY, 2015.



SCALE IN FEET



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

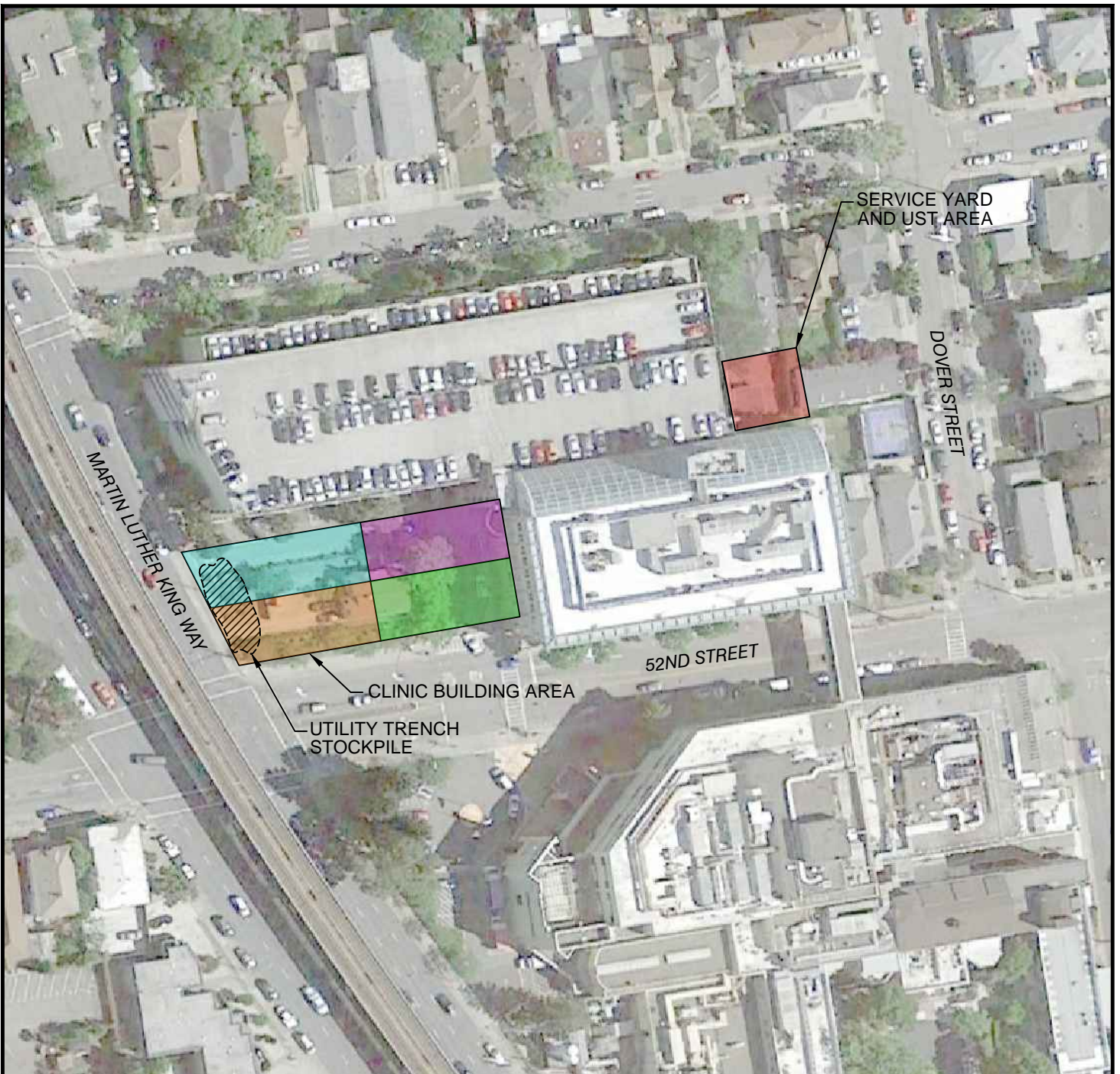
**LEGEND**

B-4 BORING

402654001-BL.dwg, Jan 13, 2016, 11:07 am, SN

<b>Ninyo &amp; Moore</b>		<b>SOIL BORING LOCATIONS</b>	FIGURE
PROJECT NO.	DATE	UCSF BENIOFF CHILDREN'S HOSPITAL OUTPATIENT 2 CLINIC 747 52ND STREET OAKLAND, CALIFORNIA	<b>2</b>
402654001	1/16		

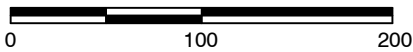




REFERENCE: GOOGLE EARTH IMAGERY, 2015.



SCALE IN FEET



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

**LEGEND**

**COMPOSITE SAMPLES**

- S-1-A-2,S-1-B-1,S-1-C-1,S-1-D-1
- S-2-A-2,S-2-B-1,S-2-C-2,S-2-D-1.5
- S-3-A-2,S-3-B-2,S-3-C-2,S-3-D-1
- S-4-A-2,S-4-B-1.5,S-4-C-1.5,S-4-D-1.5
- SY-1-1,SY-2-1,SY-3-1,SY-4-2
- SP-1A,-1B,-1C,-1D STOCKPILE



**COMPOSITE SAMPLE LOCATIONS**

FIGURE

PROJECT NO.

DATE

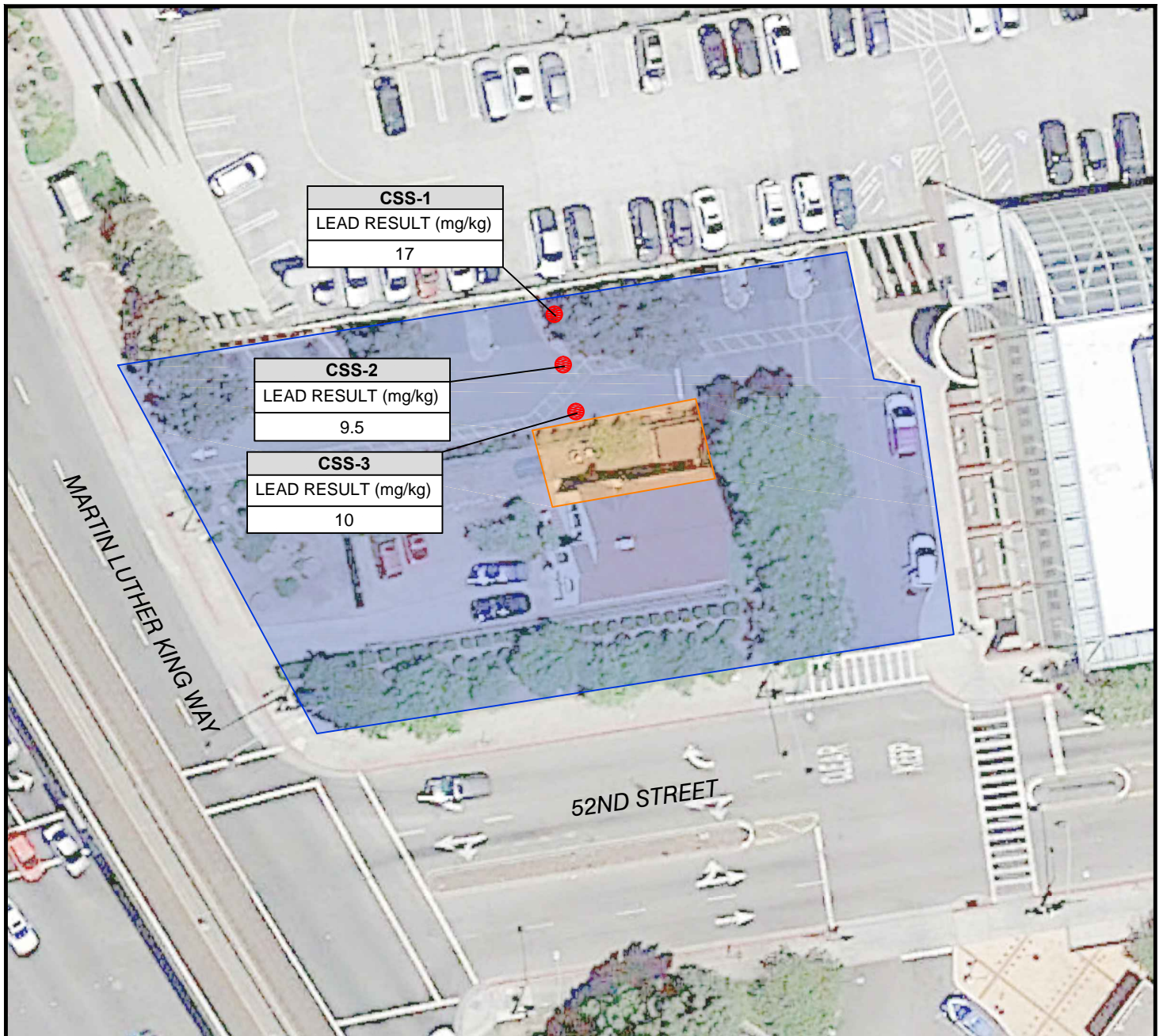
UCSF BENIOFF CHILDREN'S HOSPITAL OUTPATIENT 2 CLINIC  
747 52ND STREET  
OAKLAND, CALIFORNIA

402654001

1/16

**3**

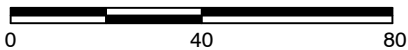




REFERENCE: GOOGLE EARTH IMAGERY, 2015.



SCALE IN FEET



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

LEGEND	
	ZONE 1 (NON RCRA HAZARDOUS WASTE)
	ZONE 2 (NON-HAZARDOUS WASTE)
	CSS-3 SOIL SAMPLES COLLECTED FOR DEFINING NON-RCRA HAZARDOUS WASTE BOUNDARIES
mg/kg	MILLIGRAMS PER KILOGRAM

**Ninyo & Moore**

**RECOMMENDED WASTE CHARACTERIZATION BOUNDARIES**

FIGURE

PROJECT NO.

DATE

UCSF BENIOFF CHILDREN'S HOSPITAL OUTPATIENT 2 CLINIC  
747 52ND STREET  
OAKLAND, CALIFORNIA

**4**

402654001

1/16

<b>Table 1 - Total Petroleum Hydrocarbons as Diesel and Motor Oil and Volatile Organic Compounds Soil Sample Analytical Data</b>				
<b>Sample Identification</b>	<b>Analytical Results</b>			
	<b>TPHd</b>	<b>TPHmo</b>	<b>TPHg</b>	<b>Toluene</b>
	<b>mg/kg</b>		<b>µg/kg</b>	
<b>B-1-3</b>	--	--	ND<250	ND<4.9
<b>B-2-15</b>	--	--	ND<230	ND<4.6
<b>B-3-15</b>	--	--	ND<240	ND<4.8
<b>B-4-1</b>	--	--	ND<240	23
<b>SP-1D</b>	--	--	ND<250	ND<5.0
<b>S-1-A-2</b>	--	--	ND<250	ND<5.0
<b>S-2-A-2,</b>	--	--	ND<250	ND<5.0
<b>S-3-A-2</b>	--	--	ND<250	ND<4.9
<b>S-4-A-2</b>	--	--	ND<250	ND<5.0
<b>SY-1-1</b>	--	--	380	81
<b>S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1</b>	110	350	--	--
<b>S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5</b>	36	85	--	--
<b>S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1</b>	10	ND<50	--	--
<b>S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5</b>	77	260	--	--
<b>SY-1-1, SY-2-1, SY-3-1, SY-4-2</b>	42	210	--	--
<b>B-1-3,-7,-13,-20</b>	ND<1	ND<50	--	--
<b>B-2-3,-7,-15,-18</b>	1.3	ND<49	--	--
<b>B-3-1,-7,-11,-15</b>	ND<1	ND<50	--	--
<b>B-4-1,-5,-10,-15</b>	110	630	--	--
<b>SP-1A,-1B,-1C,-1D</b>	170	870	--	--
<b>Ten (10) Times the STLC Value<sup>a</sup></b>	NE	NE	NE	NE
<b>Residential ESL</b>	100	100	100,000	2,900
<b>Commercial ESL</b>	110	500	500,000	2,900

**Notes:**

<sup>a</sup> STLC - Soluble Threshold Limit Concentration, Official California Code of Regulations (CCR), Title 22, Division 4.5, Ch. 11, Characteristics of Hazardous Waste

Total petroleum hydrocarbons as gasoline (TPHg) and volatile organic compounds (VOCs) analyzed using USEPA Method 8260B; only detected VOCs listed in table above, please refer to analytical laboratory report for complete list of VOCs analyzed

Total petroleum hydrocarbons as diesel (TPHd) and as motor oil (TPHmo) analyzed using USEPA Method 8015B

mg/kg-milligrams per kilograms

µg/kg-micrograms per kilograms

Analytical results reported on a dry-weight basis

ND<X - not detected at a concentration greater than the laboratory reporting limit of X

-- Not analyzed

NE - Not established

<b>Table 2 - Total Petroleum Hydrocarbons as Diesel and Motor Oil and Volatile Organic Compounds Groundwater Sample Analytical Data</b>					
<b>Sample Identification</b>	<b>Analytical Results (µg/L)</b>				
	<b>TTPHg</b>	<b>TPHd</b>	<b>TPHmo</b>	<b>PCE</b>	<b>Toluene</b>
<b>B-2-GW</b>	ND<50	ND<53	ND<110	ND<0.5	<b>4.3</b>
<b>B-3-GW</b>	<b>52</b>	<b>220</b>	<b>930</b>	<b>44</b>	<b>3.8</b>
<b>Wastewater Discharge Criteria Guidelines<sup>a</sup></b>	NE	100,000 <sup>b</sup>	500 <sup>c</sup>	NE	

**Notes:**

<sup>a</sup> Wastewater Discharge Criteria Guidelines per East Bay Municipal Utility District Ordinance No. 311A-03

<sup>b</sup> Represented as Oil and Grease in the Ordinance

<sup>c</sup> Represented as total chlorinated hydrocarbons in the Ordinance  
Total petroleum hydrocarbons as gasoline (TPHg) and volatile organic compounds (VOCs) analyzed using USEPA Method 8260B and reported in micrograms per liter; only detected VOCs listed in table above, please refer to analytical laboratory report for complete list of VOCs analyzed

Total petroleum hydrocarbons as diesel (TPHd) and as motor oil (TPHmo) analyzed using USEPA Method 8015B

Analytical results reported on a dry-weight basis

ND<X - not detected at a concentration greater than the laboratory reporting limit of X

A **BOLD** concentration indicates exceedance of the Reporting Limit

Table 3 - California Title 22 Metals Soil Sample Analytical Results

Sample Identification	ANALYTICAL RESULTS (mg/kg)																		
	Antimony	Arsenic <sup>a</sup>	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Lead WET <sup>b</sup>	Lead TCLP <sup>c</sup>	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
B-1-3,-7,-13,-20	ND<1.7	6.9	210	0.51	ND<0.41	45	12	24	8.5	---	---	ND<1.7	61	ND<3.3	ND<0.83	ND<1.7	43	67	0.32
B-2-3,-7,-15,-18	ND<1.6	8.7	150	0.4	ND<0.39	46	12	20	7.6	---	---	ND<1.6	57	ND<3.1	ND<0.78	ND<1.6	38	58	0.19
B-3-1,-7,-11,-15	ND<0.33	2.6	97	0.24	ND<0.082	27	4.4	12	5.6	---	---	ND<0.33	26	ND<0.65	ND<0.16	ND<0.33	20	24	0.19
B-4-1,-5,-10,-15	ND<0.16	7.4	180	ND<0.4	ND<0.4	38	12	30	<b>78</b>	0.62	---	ND<1.6	43	ND<3.2	ND<0.81	ND<1.6	53	130	0.19
SP-1A,-1B,-1C,-1D	ND<0.46	5.7	130	0.43	0.32	38	12	20	8.4	---	---	0.5	49	ND<0.93	ND<0.23	ND<0.46	29	58	0.15
S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1	ND<0.41	6.2	190	0.38	0.43	35	8.3	26	<b>70</b>	3.6	---	0.44	44	ND<0.83	ND<0.21	ND<0.41	30	130	0.16
S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5	ND<1.6	20	200	ND<0.33	0.52	44	11	23	<b>65</b>	<b>9.8</b>	---	1.6	50	ND<3.3	ND<0.82	ND<1.6	30	140	0.12
S-2-A-2	---	6.4	---	---	---	---	---	---	---	<b>16</b>	<0.5	---	---	---	---	---	---	---	---
S-2-B-1	---	6.9	---	---	---	---	---	---	---	---	0.58	---	---	---	---	---	---	---	---
S-2-C-2	---	6	---	---	---	---	---	---	---	---	0.68	---	---	---	---	---	---	---	---
S-2-D-1.5	---	6.9	---	---	---	---	---	---	---	---	0.95	---	---	---	---	---	---	---	---
CSS-1	---	---	---	---	---	---	---	---	---	17	---	---	---	---	---	---	---	---	---
CSS-2	---	---	---	---	---	---	---	---	---	9.5	---	---	---	---	---	---	---	---	---
CSS-3	---	---	---	---	---	---	---	---	10	---	---	---	---	---	---	---	---	---	---
S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1	ND<0.41	7.9	97	ND<0.33	0.43	36	10	20	20	---	---	0.96	50	ND<0.83	ND<0.21	ND<0.41	31	77	0.11
S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5	ND<0.5	7.3	110	ND<0.1	0.4	37	9.5	24	<b>52</b>	1.6	---	0.62	48	ND<1	ND<0.25	ND<0.5	32	90	0.29
SY-1-1, SY-2-1, SY-3-1, SY-4-2	ND<1.4	8.6	290	0.46	0.74	41	9.8	35	<b>150</b>	4.9	ND<0.050	ND<1.4	44	ND<2.9	ND<0.71	ND<1.4	36	190	0.1
Ten (10) Times the STLC Value <sup>d</sup>	150	50	1,000	75	10	50	800	250	50	5	---	3,500	200	10	50	70	240	2,500	2
Twenty (20) Times the TCLP Value <sup>d</sup>	NE	100	2,000	NE	20	100	NE	NE	100	---	5	NE	NE	20	100	NE	NE	NE	4

**Notes:**

<sup>a</sup>Duverge - Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region, dated December 2011 indicates that 11 mg/kg is the Regional Water Quality Control Board acceptable background concentration for arsenic in Bay Area soils

<sup>b</sup>STLC - Soluble Threshold Limit Concentration, Official California Code of Regulations (CCR), Title 22, Division 4.5, Ch. 11, Characteristics of Hazardous Waste, established in milligrams per liter

<sup>c</sup>TCLP - Toxicity Characteristic Leaching Procedure, Resource Conservation and Recovery Act (RCRA), established in milligrams per liter

<sup>d</sup>Waste extraction test (WET) and Toxicity Characteristic Leaching Procedure (TCLP) results reported in milligrams per liter

A **BOLD** concentration indicates exceedance of 10 times the STLC, or the STLC itself if compared to "Lead WET" result

An UNDERLINED concentration indicates exceedance of 20 times the TCLP

Gray shading indicates the concentration is greater than the Duverge limit.

California Title 22 Metals analyzed using USEPA Method 6010B/7471A

mg/kg - milligrams per kilogram; analytical results reported on a dry-weight basis

ND-X - not detected at a concentration greater than the laboratory reporting limit of X

NE - Not Established

--- Not analyzed



Table 4 - Title 22 Metals Groundwater Sample Analytical Data																	
Sample Identification	Analytical Results (mg/L)																
	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
B-2-GW	ND<0.01	ND<0.01	<b>0.14</b>	ND<0.002	ND<0.002	ND<0.01	<b>0.0042</b>	ND<0.02	ND<0.005	ND<0.0002	<b>0.012</b>	ND<0.01	ND<0.02	ND<0.005	ND<0.01	ND<0.01	<b>0.023</b>
B-3-GW	ND<0.01	ND<0.01	<b>0.11</b>	ND<0.002	ND<0.002	ND<0.01	ND<0.002	ND<0.02	ND<0.005	ND<0.0002	<b>0.034</b>	ND<0.01	ND<0.02	ND<0.005	ND<0.01	ND<0.01	<b>0.024</b>
Wastewater Discharge Criteria Guidelines <sup>a</sup>	NE	2	NE	NE	1	2	NE	5	2	0.05	NE	5	NE	1	NE	NE	5

**Notes:**

<sup>a</sup> Wastewater Discharge Criteria Guidelines per East Bay Municipal Utility District Ordinance No. 311A-03

California Title 22 Metals analyzed using USEPA Method 6010B/7471A

mg/L - milligrams per Liter;

Analytical results reported on a dry-weight basis

ND<X - not detected at a concentration greater than the laboratory reporting limit of X

NE - Not Established

A **BOLD** concentration indicates exceedance of reporting limit

Table 5 - Organochlorine Pesticide Soil Sample Analytical Results							
Sample Identification	Analytical Results (µg/kg)						
	4,4'-DDD	4,4'-DDE	4,4'-DDT	alpha-Chlordane	Chlordane (technical)	Dieldrin	gamma-Chlordane
<b>B-1-3</b>	<b>7.8</b>	<b>28</b>	<b>12</b>	ND<2	ND<40	ND<2	ND<2
<b>B-2-3</b>	ND<2	ND<2	ND<2	ND<2	ND<40	ND<2	ND<2
<b>B-3-1</b>	ND<1.9	ND<1.9	ND<1.9	ND<1.9	ND<39	ND<1.9	ND<1.9
<b>SP-1A,-1B,-1C,-1D</b>	ND<4	ND<4	9	ND<4	ND<79	ND<4	ND<4
<b>S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1</b>	<b>2.9</b>	<b>3.6</b>	ND<4	<b>3.2</b>	ND<40	<b>2.5</b>	<b>2.8</b>
<b>S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5</b>	ND<2	ND<2	2	ND<2	ND<39	ND<2	ND<2
<b>S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1</b>	ND<2	ND<2	<b>3.1</b>	ND<2	ND<39	ND<2	ND<2
<b>S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5</b>	ND<2	<b>4.8</b>	<b>4.3</b>	ND<2	ND<39	ND<2	3.5
<b>SY-1-1, SY-2-1, SY-3-1, SY-4-2</b>	<b>2.4</b>	<b>7.7</b>	<b>14</b>	<b>6.3</b>	<b>90</b>	ND<2	5.9
<b>Ten (10) Times the STLC Value<sup>a</sup></b>	1000 <sup>b</sup>			NE	2,500	8,000	NE

**Notes:**

<sup>a</sup> STLC - Soluble Threshold Limit Concentration, Official California Code of Regulations (CCR), Title 22, Division 4.5, Ch. 11, Characteristics of I

<sup>b</sup> Compared to combined DDT values

A **BOLD** concentration indicates exceedance of 10 times the STLC

Organochlorine Pesticides (OCPs) analyzed using EPA Method 8081; only detected OCPs listed in table above, please refer to analytical laboratory report for complete list of OCPs analyzed.

µg/kg - micrograms per kilograms

Analytical results reported on a dry-weight basis

ND<X - not detected at a concentration greater than the laboratory reporting limit of X

NE - Not established

**APPENDIX A**

**TESTAMERICA LABORATORY ANALYTICAL REPORTS**





**Curtis & Tompkins, Ltd.**  
Analytical Laboratories, Since 1878







Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 273030  
ANALYTICAL REPORT


Ninyo & Moore  
1956 Webster St.  
Oakland, CA 94612

Project : 402654001  
Location : UCSF Benioff  
Level : II

<u>Sample ID</u>	<u>Lab ID</u>
CSS-2	273030-001
CSS-1	273030-002
CSS-3	273030-003

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

Signature: \_\_\_\_\_

  
Mikelle Chong  
Project Manager  
mikelle.chong@ctberk.com

Date: 01/12/2016

CA ELAP# 2896, NELAP# 4044-001

### CASE NARRATIVE

Laboratory number: 273030  
Client: Ninyo & Moore  
Project: 402654001  
Location: UCSF Benioff  
Request Date: 01/11/16  
Samples Received: 01/11/16

This data package contains sample and QC results for three soil samples, requested for the above referenced project on 01/11/16. The samples were received on ice and intact, directly from the field.

**Metals (EPA 6010B):**

No analytical problems were encountered.





COOLER RECEIPT CHECKLIST



Login # 273030 Date Received 01/11/16 Number of coolers 0
Client Ninyo Y Moore Project UCSF Benioff

Date Opened 01/11 By (print) SL (sign) [Signature]
Date Logged in [Arrow] By (print) [Arrow] (sign) [Arrow]

1. Did cooler come with a shipping slip (airbill, etc) YES NO
Shipping info

2A. Were custody seals present? ... YES (circle) on cooler on samples NO
How many Name Date

2B. Were custody seals intact upon arrival? YES NO NA

3. Were custody papers dry and intact when received? YES NO

4. Were custody papers filled out properly (ink, signed, etc)? YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe)

- Bubble Wrap, Cloth material, Foam blocks, Cardboard, Bags, Styrofoam, None, Paper towels

7. Temperature documentation: \* Notify PM if temperature exceeds 6°C

Type of ice used: Wet Blue/Gel None Temp(°C) 10.6°

Temperature blank(s) included? Thermometer# IR Gun# 4

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO
If YES, what time were they transferred to freezer?

9. Did all bottles arrive unbroken/unopened? YES NO

10. Are there any missing / extra samples? YES NO

11. Are samples in the appropriate containers for indicated tests? YES NO

12. Are sample labels present, in good condition and complete? YES NO

13. Do the sample labels agree with custody papers? YES NO

14. Was sufficient amount of sample sent for tests requested? YES NO

15. Are the samples appropriately preserved? YES NO NA

16. Did you check preservatives for all bottles for each sample? YES NO NA

17. Did you document your preservative check? (pH strip lot# ) YES NO NA

18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO NA

19. Did you change the hold time in LIMS for preserved terracores? YES NO NA

20. Are bubbles > 6mm absent in VOA samples? YES NO NA

21. Was the client contacted concerning this sample delivery? YES NO

If YES, Who was called? By Date:

COMMENTS

Blank lines for handwritten comments.



Lead			
Lab #:	273030	Location:	UCSF Benioff
Client:	Ninyo & Moore	Prep:	EPA 3050B
Project#:	402654001	Analysis:	EPA 6010B
Analyte:	Lead	Sampled:	01/11/16
Matrix:	Soil	Received:	01/11/16
Units:	mg/Kg	Prepared:	01/11/16
Basis:	as received	Analyzed:	01/12/16
Batch#:	231049		

Field ID	Type	Lab ID	Result	RL	Diln Fac
CSS-2	SAMPLE	273030-001	9.5	2.3	10.00
CSS-1	SAMPLE	273030-002	17	2.6	10.00
CSS-3	SAMPLE	273030-003	10	2.7	10.00
	BLANK	QC819268	ND	0.23	1.000

ND= Not Detected  
 RL= Reporting Limit

**Batch QC Report**

<b>Lead</b>			
Lab #:	273030	Location:	UCSF Benioff
Client:	Ninyo & Moore	Prep:	EPA 3050B
Project#:	402654001	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	231049
Field ID:	ZZZZZZZZZZ	Sampled:	01/07/16
MSS Lab ID:	272974-001	Received:	01/08/16
Matrix:	Soil	Prepared:	01/11/16
Units:	mg/Kg	Analyzed:	01/12/16
Basis:	as received		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln	Fac
BS	QC819269		46.73	46.46	99	80-120				10.00
BSD	QC819270		51.02	47.18	92	80-120	7	20		10.00
MS	QC819271	9.329	50.00	60.81	103	53-125				5.000
MSD	QC819272		48.54	56.02	96	53-125	6	42		5.000

RPD= Relative Percent Difference

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

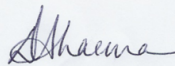
## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Pleasanton  
1220 Quarry Lane  
Pleasanton, CA 94566  
Tel: (925)484-1919

TestAmerica Job ID: 720-68723-1  
Client Project/Site: Turner/UCSF Benioff

For:  
Ninyo & Moore  
1956 Webster Street  
Suite 400  
Oakland, California 94612

Attn: Jason Grant



Authorized for release by:  
11/25/2015 4:06:42 PM

Dimple Sharma, Senior Project Manager  
(925)484-1919  
[dimple.sharma@testamericainc.com](mailto:dimple.sharma@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Definitions/Glossary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
*	LCS or LCSD is outside acceptance limits.

### GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

### GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Case Narrative

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

**Job ID: 720-68723-1**

**Laboratory: TestAmerica Pleasanton**

## Narrative

### Job Narrative 720-68723-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 11/18/2015 3:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.5° C and 1.8° C.

#### Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. Samples B-2-GW and B-3-GW received unpreserved poly 250ml for CAM 17 Metals. The Metals bottles sample labels note: "Lab Filter. Dissolved Metals or lab to filter is not listed on the COC.

On the B-4 samples the coc is marked for discreet Cam 17 and Cam 17 on the composite. Per phone conversation with client logged the discreet sample for Cam 17 until confirmation.

#### GC/MS VOA

Method 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 720-193083 recovered outside control limits for the following analytes: Dichlorodifluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The Gasoline Range Organics (GRO) concentration reported for the following sample is due to the presence of discrete peaks: B-3-GW (720-68723-7). Tetrachloroethene

Method 8260B: Internal standard (ISTD) response for the following sample was outside control limits: B-4-1 (720-68723-18). The sample was re-analyzed with concurring results, and the data from re-analysis has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC/MS Semi VOA

Method 8270C: The following sample required a dilution due to the nature of the sample matrix: B-4-1 (720-68723-18). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270C: The following analyte recovered outside control limits for the LCS associated with preparation batch 720-193042 and analytical batch 720-193156: 1,3-Dichlorobenzene and Hexachloroethane. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### GC Semi VOA

Method 8015B: The following sample required a dilution due to the nature of the sample matrix: B-4-1,-5,-10,-15 (720-68723-22). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

Method 3005A/7470A: The following samples requested dissolved metals and were not filtered in the field: B-2-GW (720-68723-6),



# Case Narrative

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

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## Job ID: 720-68723-1 (Continued)

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### Laboratory: TestAmerica Pleasanton (Continued)

B-3-GW (720-68723-7), (720-68723-F-6-A MS) and (720-68723-F-6-A MSD). These samples were filtered and preserved upon receipt to the laboratory; ref #: 192933

Method 6010B: The following samples was diluted due to the abundance of non-target analyte: B-1-3,-7,-13,-20 (720-68723-5), B-2-3,-7,-15,-18 (720-68723-12) and B-4-1,-5,-10,-15 (720-68723-22). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### Organic Prep

Method 3546: The following samples could not be thoroughly homogenized before sub-sampling was performed due to sample matrix: B-1-13 (720-68723-3), B-3-15 (720-68723-16) and B-4-1,-5,-10,-15 (720-68723-22). The samples were clay.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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# Detection Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Client Sample ID: B-1-3

## Lab Sample ID: 720-68723-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDT	12		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDE	28		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDD	7.8		2.0		ug/Kg	1		8081A	Total/NA

## Client Sample ID: B-1-13

## Lab Sample ID: 720-68723-3

No Detections.

## Client Sample ID: B-1-3,-7,-13,-20

## Lab Sample ID: 720-68723-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.9		3.3		mg/Kg	4		6010B	Total/NA
Barium	210		1.7		mg/Kg	4		6010B	Total/NA
Beryllium	0.51		0.33		mg/Kg	4		6010B	Total/NA
Chromium	45		1.7		mg/Kg	4		6010B	Total/NA
Cobalt	12		0.66		mg/Kg	4		6010B	Total/NA
Copper	24		5.0		mg/Kg	4		6010B	Total/NA
Lead	8.5		1.7		mg/Kg	4		6010B	Total/NA
Nickel	61		1.7		mg/Kg	4		6010B	Total/NA
Vanadium	43		1.7		mg/Kg	4		6010B	Total/NA
Zinc	67		5.0		mg/Kg	4		6010B	Total/NA
Mercury	0.32		0.0097		mg/Kg	1		7471A	Total/NA

## Client Sample ID: B-2-GW

## Lab Sample ID: 720-68723-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	4.3		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Barium	0.14		0.050		mg/L	1		6010B	Dissolved
Cobalt	0.0042		0.0020		mg/L	1		6010B	Dissolved
Molybdenum	0.012		0.010		mg/L	1		6010B	Dissolved
Zinc	0.023		0.020		mg/L	1		6010B	Dissolved

## Client Sample ID: B-3-GW

## Lab Sample ID: 720-68723-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	44		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	3.8		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	52		50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	220		53		ug/L	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	930		110		ug/L	1		8015B	Silica Gel Cleanup
Barium	0.11		0.050		mg/L	1		6010B	Dissolved
Molybdenum	0.034		0.010		mg/L	1		6010B	Dissolved
Zinc	0.024		0.020		mg/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Detection Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Client Sample ID: B-2-3

Lab Sample ID: 720-68723-8

No Detections.

## Client Sample ID: B-2-15

Lab Sample ID: 720-68723-10

No Detections.

## Client Sample ID: B-2-3,-7,-15,-18

Lab Sample ID: 720-68723-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.3		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Arsenic	8.7		3.1		mg/Kg	4		6010B	Total/NA
Barium	150		1.6		mg/Kg	4		6010B	Total/NA
Beryllium	0.40		0.31		mg/Kg	4		6010B	Total/NA
Chromium	46		1.6		mg/Kg	4		6010B	Total/NA
Cobalt	12		0.62		mg/Kg	4		6010B	Total/NA
Copper	20		4.7		mg/Kg	4		6010B	Total/NA
Lead	7.6		1.6		mg/Kg	4		6010B	Total/NA
Nickel	57		1.6		mg/Kg	4		6010B	Total/NA
Vanadium	38		1.6		mg/Kg	4		6010B	Total/NA
Zinc	58		4.7		mg/Kg	4		6010B	Total/NA
Mercury	0.19		0.0091		mg/Kg	1		7471A	Total/NA

## Client Sample ID: B-3-1

Lab Sample ID: 720-68723-13

No Detections.

## Client Sample ID: B-3-15

Lab Sample ID: 720-68723-16

No Detections.

## Client Sample ID: B-3-1,-7,-11,-15

Lab Sample ID: 720-68723-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.6		2.6		mg/Kg	4		6010B	Total/NA
Barium	97		1.3		mg/Kg	4		6010B	Total/NA
Beryllium	0.24		0.065		mg/Kg	1		6010B	Total/NA
Chromium	27		1.3		mg/Kg	4		6010B	Total/NA
Cobalt	4.4		0.52		mg/Kg	4		6010B	Total/NA
Copper	12		3.9		mg/Kg	4		6010B	Total/NA
Lead	5.6		1.3		mg/Kg	4		6010B	Total/NA
Nickel	26		1.3		mg/Kg	4		6010B	Total/NA
Vanadium	20		1.3		mg/Kg	4		6010B	Total/NA
Zinc	24		3.9		mg/Kg	4		6010B	Total/NA
Mercury	0.19		0.0085		mg/Kg	1		7471A	Total/NA

## Client Sample ID: B-4-1

Lab Sample ID: 720-68723-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	23		4.8		ug/Kg	1		8260B	Total/NA

## Client Sample ID: B-4-1,-5,-10,-15

Lab Sample ID: 720-68723-22

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Detection Summary

Client: Ninyo & Moore  
 Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

**Client Sample ID: B-4-1,-5,-10,-15 (Continued)**

**Lab Sample ID: 720-68723-22**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	110		5.0		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	630		250		mg/Kg	5		8015B	Silica Gel Cleanup
Arsenic	7.4		3.2		mg/Kg	4		6010B	Total/NA
Barium	180		1.6		mg/Kg	4		6010B	Total/NA
Beryllium	0.37		0.32		mg/Kg	4		6010B	Total/NA
Chromium	38		1.6		mg/Kg	4		6010B	Total/NA
Cobalt	12		0.65		mg/Kg	4		6010B	Total/NA
Copper	30		4.8		mg/Kg	4		6010B	Total/NA
Lead	78		1.6		mg/Kg	4		6010B	Total/NA
Nickel	43		1.6		mg/Kg	4		6010B	Total/NA
Vanadium	53		1.6		mg/Kg	4		6010B	Total/NA
Zinc	130		4.8		mg/Kg	4		6010B	Total/NA
Mercury	0.19		0.0091		mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton



# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

**Client Sample ID: B-1-3**  
**Date Collected: 11/18/15 08:50**  
**Date Received: 11/18/15 15:50**

**Lab Sample ID: 720-68723-1**  
**Matrix: Solid**

## Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:33	1
Dieldrin	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:33	1
Endrin aldehyde	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:33	1
Endrin	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:33	1
Endrin ketone	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:33	1
Heptachlor	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:33	1
Heptachlor epoxide	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:33	1
<b>4,4'-DDT</b>	<b>12</b>		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:33	1
<b>4,4'-DDE</b>	<b>28</b>		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:33	1
<b>4,4'-DDD</b>	<b>7.8</b>		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:33	1
Endosulfan I	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:33	1
Endosulfan II	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:33	1
alpha-BHC	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:33	1
beta-BHC	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:33	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:33	1
delta-BHC	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:33	1
Endosulfan sulfate	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:33	1
Methoxychlor	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:33	1
Toxaphene	ND		40		ug/Kg		11/20/15 15:24	11/22/15 17:33	1
Chlordane (technical)	ND		40		ug/Kg		11/20/15 15:24	11/22/15 17:33	1
alpha-Chlordane	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:33	1
gamma-Chlordane	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:33	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>Tetrachloro-m-xylene</i>	102		57 - 122				11/20/15 15:24	11/22/15 17:33	1
<i>DCB Decachlorobiphenyl</i>	104		21 - 136				11/20/15 15:24	11/22/15 17:33	1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		11/20/15 15:24	11/21/15 19:39	1
PCB-1221	ND		50		ug/Kg		11/20/15 15:24	11/21/15 19:39	1
PCB-1232	ND		50		ug/Kg		11/20/15 15:24	11/21/15 19:39	1
PCB-1242	ND		50		ug/Kg		11/20/15 15:24	11/21/15 19:39	1
PCB-1248	ND		50		ug/Kg		11/20/15 15:24	11/21/15 19:39	1
PCB-1254	ND		50		ug/Kg		11/20/15 15:24	11/21/15 19:39	1
PCB-1260	ND		50		ug/Kg		11/20/15 15:24	11/21/15 19:39	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>Tetrachloro-m-xylene</i>	82		45 - 132				11/20/15 15:24	11/21/15 19:39	1
<i>DCB Decachlorobiphenyl</i>	78		42 - 146				11/20/15 15:24	11/21/15 19:39	1

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

**Client Sample ID: B-1-13**

**Date Collected: 11/18/15 10:05**

**Date Received: 11/18/15 15:50**

**Lab Sample ID: 720-68723-3**

**Matrix: Solid**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
Acetone	ND		49		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
Benzene	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
Dichlorobromomethane	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
Bromobenzene	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
Chlorobromomethane	ND		20		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
Bromoform	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
Bromomethane	ND		9.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
2-Butanone (MEK)	ND		49		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
n-Butylbenzene	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
sec-Butylbenzene	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
tert-Butylbenzene	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
Carbon disulfide	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
Carbon tetrachloride	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
Chlorobenzene	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
Chloroethane	ND		9.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
Chloroform	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
Chloromethane	ND		9.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
2-Chlorotoluene	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
4-Chlorotoluene	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
Chlorodibromomethane	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
1,2-Dichlorobenzene	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
1,3-Dichlorobenzene	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
1,4-Dichlorobenzene	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
1,3-Dichloropropane	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
1,1-Dichloropropane	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
1,2-Dibromo-3-Chloropropane	ND		9.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
Ethylene Dibromide	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
Dibromomethane	ND		9.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
1,1-Dichloroethane	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
1,2-Dichloroethane	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
1,1-Dichloroethene	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
cis-1,2-Dichloroethene	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
trans-1,2-Dichloroethene	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
1,2-Dichloropropane	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
cis-1,3-Dichloropropene	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
trans-1,3-Dichloropropene	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
Ethylbenzene	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
Hexachlorobutadiene	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
2-Hexanone	ND		49		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
Isopropylbenzene	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
4-Isopropyltoluene	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
Methylene Chloride	ND		9.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
4-Methyl-2-pentanone (MIBK)	ND		49		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
Naphthalene	ND		9.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
N-Propylbenzene	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
Styrene	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
1,1,1,2-Tetrachloroethane	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1

TestAmerica Pleasanton



# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

**Client Sample ID: B-1-13**

**Lab Sample ID: 720-68723-3**

**Date Collected: 11/18/15 10:05**

**Matrix: Solid**

**Date Received: 11/18/15 15:50**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
Tetrachloroethene	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
Toluene	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
1,2,3-Trichlorobenzene	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
1,2,4-Trichlorobenzene	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
1,1,1-Trichloroethane	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
1,1,2-Trichloroethane	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
Trichloroethene	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
Trichlorofluoromethane	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
1,2,3-Trichloropropane	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
1,2,4-Trimethylbenzene	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
1,3,5-Trimethylbenzene	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
Vinyl acetate	ND		20		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
Vinyl chloride	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
Xylenes, Total	ND		9.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
2,2-Dichloropropane	ND		4.9		ug/Kg		11/22/15 07:00	11/22/15 19:10	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		11/22/15 07:00	11/22/15 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	84		45 - 131	11/22/15 07:00	11/22/15 19:10	1
1,2-Dichloroethane-d4 (Surr)	103		60 - 140	11/22/15 07:00	11/22/15 19:10	1
Toluene-d8 (Surr)	88		58 - 140	11/22/15 07:00	11/22/15 19:10	1

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Bis(2-chloroethyl)ether	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
2-Chlorophenol	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
1,3-Dichlorobenzene	ND	*	0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
1,4-Dichlorobenzene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Benzyl alcohol	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
1,2-Dichlorobenzene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
2-Methylphenol	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Methylphenol, 3 & 4	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
N-Nitrosodi-n-propylamine	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Hexachloroethane	ND	*	0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Nitrobenzene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Isophorone	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
2-Nitrophenol	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
2,4-Dimethylphenol	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Bis(2-chloroethoxy)methane	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
2,4-Dichlorophenol	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
1,2,4-Trichlorobenzene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Naphthalene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
4-Chloroaniline	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Hexachlorobutadiene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
4-Chloro-3-methylphenol	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
2-Methylnaphthalene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

**Client Sample ID: B-1-13**

**Lab Sample ID: 720-68723-3**

**Date Collected: 11/18/15 10:05**

**Matrix: Solid**

**Date Received: 11/18/15 15:50**

**Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
2,4,6-Trichlorophenol	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
2,4,5-Trichlorophenol	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
2-Chloronaphthalene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
2-Nitroaniline	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Dimethyl phthalate	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Acenaphthylene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
3-Nitroaniline	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Acenaphthene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
2,4-Dinitrophenol	ND		0.65		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
4-Nitrophenol	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Dibenzofuran	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
2,4-Dinitrotoluene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
2,6-Dinitrotoluene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Diethyl phthalate	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
4-Chlorophenyl phenyl ether	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Fluorene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
4-Nitroaniline	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
2-Methyl-4,6-dinitrophenol	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
N-Nitrosodiphenylamine	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
4-Bromophenyl phenyl ether	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Hexachlorobenzene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Pentachlorophenol	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Phenanthrene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Anthracene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Di-n-butyl phthalate	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Fluoranthene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Pyrene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Butyl benzyl phthalate	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
3,3'-Dichlorobenzidine	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Benzo[a]anthracene	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Bis(2-ethylhexyl) phthalate	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Chrysene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Di-n-octyl phthalate	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Benzo[b]fluoranthene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Benzo[a]pyrene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Benzo[k]fluoranthene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Indeno[1,2,3-cd]pyrene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Benzo[g,h,i]perylene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Benzoic acid	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Azobenzene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1
Dibenz(a,h)anthracene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	59		21 - 98	11/23/15 10:18	11/24/15 18:02	1
2-Fluorobiphenyl	73		30 - 112	11/23/15 10:18	11/24/15 18:02	1
Terphenyl-d14	90		32 - 117	11/23/15 10:18	11/24/15 18:02	1
2-Fluorophenol	71		28 - 98	11/23/15 10:18	11/24/15 18:02	1
Phenol-d5	69		23 - 101	11/23/15 10:18	11/24/15 18:02	1
2,4,6-Tribromophenol	81		37 - 114	11/23/15 10:18	11/24/15 18:02	1

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

**Client Sample ID: B-1-3,-7,-13,-20**

**Lab Sample ID: 720-68723-5**

**Date Collected: 11/18/15 10:00**

**Matrix: Solid**

**Date Received: 11/18/15 15:50**

**Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		11/23/15 15:06	11/24/15 19:20	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		11/23/15 15:06	11/24/15 19:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.01		0 - 1				11/23/15 15:06	11/24/15 19:20	1
p-Terphenyl	92		38 - 148				11/23/15 15:06	11/24/15 19:20	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.7		mg/Kg		11/19/15 18:47	11/23/15 20:05	4
<b>Arsenic</b>	<b>6.9</b>		3.3		mg/Kg		11/19/15 18:47	11/23/15 20:05	4
<b>Barium</b>	<b>210</b>		1.7		mg/Kg		11/19/15 18:47	11/23/15 20:05	4
<b>Beryllium</b>	<b>0.51</b>		0.33		mg/Kg		11/19/15 18:47	11/23/15 20:05	4
Cadmium	ND		0.41		mg/Kg		11/19/15 18:47	11/23/15 20:05	4
<b>Chromium</b>	<b>45</b>		1.7		mg/Kg		11/19/15 18:47	11/23/15 20:05	4
<b>Cobalt</b>	<b>12</b>		0.66		mg/Kg		11/19/15 18:47	11/23/15 20:05	4
<b>Copper</b>	<b>24</b>		5.0		mg/Kg		11/19/15 18:47	11/23/15 20:05	4
<b>Lead</b>	<b>8.5</b>		1.7		mg/Kg		11/19/15 18:47	11/23/15 20:05	4
Molybdenum	ND		1.7		mg/Kg		11/19/15 18:47	11/23/15 20:05	4
<b>Nickel</b>	<b>61</b>		1.7		mg/Kg		11/19/15 18:47	11/23/15 20:05	4
Selenium	ND		3.3		mg/Kg		11/19/15 18:47	11/23/15 20:05	4
Silver	ND		0.83		mg/Kg		11/19/15 18:47	11/23/15 20:05	4
Thallium	ND		1.7		mg/Kg		11/19/15 18:47	11/23/15 20:05	4
<b>Vanadium</b>	<b>43</b>		1.7		mg/Kg		11/19/15 18:47	11/23/15 20:05	4
<b>Zinc</b>	<b>67</b>		5.0		mg/Kg		11/19/15 18:47	11/23/15 20:05	4

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.32</b>		0.0097		mg/Kg		11/19/15 17:01	11/23/15 16:09	1

# Client Sample Results

Client: Ninyo & Moore  
 Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

**Client Sample ID: B-2-GW**  
**Date Collected: 11/18/15 10:00**  
**Date Received: 11/18/15 15:50**

**Lab Sample ID: 720-68723-6**  
**Matrix: Water**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			11/24/15 04:15	1
Acetone	ND		50		ug/L			11/24/15 04:15	1
Benzene	ND		0.50		ug/L			11/24/15 04:15	1
Dichlorobromomethane	ND		0.50		ug/L			11/24/15 04:15	1
Bromobenzene	ND		1.0		ug/L			11/24/15 04:15	1
Chlorobromomethane	ND		1.0		ug/L			11/24/15 04:15	1
Bromoform	ND		1.0		ug/L			11/24/15 04:15	1
Bromomethane	ND		1.0		ug/L			11/24/15 04:15	1
2-Butanone (MEK)	ND		50		ug/L			11/24/15 04:15	1
n-Butylbenzene	ND		1.0		ug/L			11/24/15 04:15	1
sec-Butylbenzene	ND		1.0		ug/L			11/24/15 04:15	1
tert-Butylbenzene	ND		1.0		ug/L			11/24/15 04:15	1
Carbon disulfide	ND		5.0		ug/L			11/24/15 04:15	1
Carbon tetrachloride	ND		0.50		ug/L			11/24/15 04:15	1
Chlorobenzene	ND		0.50		ug/L			11/24/15 04:15	1
Chloroethane	ND		1.0		ug/L			11/24/15 04:15	1
Chloroform	ND		1.0		ug/L			11/24/15 04:15	1
Chloromethane	ND		1.0		ug/L			11/24/15 04:15	1
2-Chlorotoluene	ND		0.50		ug/L			11/24/15 04:15	1
4-Chlorotoluene	ND		0.50		ug/L			11/24/15 04:15	1
Chlorodibromomethane	ND		0.50		ug/L			11/24/15 04:15	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/24/15 04:15	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/24/15 04:15	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/24/15 04:15	1
1,3-Dichloropropane	ND		1.0		ug/L			11/24/15 04:15	1
1,1-Dichloropropene	ND		0.50		ug/L			11/24/15 04:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/24/15 04:15	1
Ethylene Dibromide	ND		0.50		ug/L			11/24/15 04:15	1
Dibromomethane	ND		0.50		ug/L			11/24/15 04:15	1
Dichlorodifluoromethane	ND *		0.50		ug/L			11/24/15 04:15	1
1,1-Dichloroethane	ND		0.50		ug/L			11/24/15 04:15	1
1,2-Dichloroethane	ND		0.50		ug/L			11/24/15 04:15	1
1,1-Dichloroethene	ND		0.50		ug/L			11/24/15 04:15	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/24/15 04:15	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/24/15 04:15	1
1,2-Dichloropropane	ND		0.50		ug/L			11/24/15 04:15	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/24/15 04:15	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/24/15 04:15	1
Ethylbenzene	ND		0.50		ug/L			11/24/15 04:15	1
Hexachlorobutadiene	ND		1.0		ug/L			11/24/15 04:15	1
2-Hexanone	ND		50		ug/L			11/24/15 04:15	1
Isopropylbenzene	ND		0.50		ug/L			11/24/15 04:15	1
4-Isopropyltoluene	ND		1.0		ug/L			11/24/15 04:15	1
Methylene Chloride	ND		5.0		ug/L			11/24/15 04:15	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			11/24/15 04:15	1
Naphthalene	ND		1.0		ug/L			11/24/15 04:15	1
N-Propylbenzene	ND		1.0		ug/L			11/24/15 04:15	1
Styrene	ND		0.50		ug/L			11/24/15 04:15	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			11/24/15 04:15	1

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

**Client Sample ID: B-2-GW**

**Lab Sample ID: 720-68723-6**

**Date Collected: 11/18/15 10:00**

**Matrix: Water**

**Date Received: 11/18/15 15:50**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			11/24/15 04:15	1
Tetrachloroethene	ND		0.50		ug/L			11/24/15 04:15	1
<b>Toluene</b>	<b>4.3</b>		0.50		ug/L			11/24/15 04:15	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/24/15 04:15	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/24/15 04:15	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/24/15 04:15	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/24/15 04:15	1
Trichloroethene	ND		0.50		ug/L			11/24/15 04:15	1
Trichlorofluoromethane	ND		1.0		ug/L			11/24/15 04:15	1
1,2,3-Trichloropropane	ND		0.50		ug/L			11/24/15 04:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/24/15 04:15	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			11/24/15 04:15	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			11/24/15 04:15	1
Vinyl acetate	ND		10		ug/L			11/24/15 04:15	1
Vinyl chloride	ND		0.50		ug/L			11/24/15 04:15	1
Xylenes, Total	ND		1.0		ug/L			11/24/15 04:15	1
2,2-Dichloropropane	ND		0.50		ug/L			11/24/15 04:15	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			11/24/15 04:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	86		67 - 130		11/24/15 04:15	1
1,2-Dichloroethane-d4 (Surr)	92		72 - 130		11/24/15 04:15	1
Toluene-d8 (Surr)	81		70 - 130		11/24/15 04:15	1

**Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		53		ug/L		11/20/15 10:22	11/22/15 04:56	1
Motor Oil Range Organics [C24-C36]	ND		110		ug/L		11/20/15 10:22	11/22/15 04:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.006		0 - 5	11/20/15 10:22	11/22/15 04:56	1
p-Terphenyl	103		31 - 150	11/20/15 10:22	11/22/15 04:56	1

**Method: 6010B - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		11/20/15 16:54	11/23/15 15:17	1
Arsenic	ND		0.010		mg/L		11/20/15 16:54	11/23/15 15:17	1
<b>Barium</b>	<b>0.14</b>		0.050		mg/L		11/20/15 16:54	11/23/15 15:17	1
Beryllium	ND		0.0020		mg/L		11/20/15 16:54	11/23/15 15:17	1
Cadmium	ND		0.0020		mg/L		11/20/15 16:54	11/23/15 15:17	1
Chromium	ND		0.010		mg/L		11/20/15 16:54	11/23/15 15:17	1
<b>Cobalt</b>	<b>0.0042</b>		0.0020		mg/L		11/20/15 16:54	11/23/15 15:17	1
Copper	ND		0.020		mg/L		11/20/15 16:54	11/23/15 15:17	1
Lead	ND		0.0050		mg/L		11/20/15 16:54	11/23/15 15:17	1
<b>Molybdenum</b>	<b>0.012</b>		0.010		mg/L		11/20/15 16:54	11/23/15 15:17	1
Nickel	ND		0.010		mg/L		11/20/15 16:54	11/23/15 15:17	1
Selenium	ND		0.020		mg/L		11/20/15 16:54	11/23/15 15:17	1
Silver	ND		0.0050		mg/L		11/20/15 16:54	11/23/15 15:17	1
Thallium	ND		0.010		mg/L		11/20/15 16:54	11/23/15 15:17	1
Vanadium	ND		0.010		mg/L		11/20/15 16:54	11/23/15 15:17	1

TestAmerica Pleasanton



# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

**Client Sample ID: B-2-GW**  
**Date Collected: 11/18/15 10:00**  
**Date Received: 11/18/15 15:50**

**Lab Sample ID: 720-68723-6**  
**Matrix: Water**

## Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.023		0.020		mg/L		11/20/15 16:54	11/23/15 15:17	1

## Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		11/24/15 11:01	11/24/15 18:38	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

**Client Sample ID: B-3-GW**

**Date Collected: 11/18/15 12:25**

**Date Received: 11/18/15 15:50**

**Lab Sample ID: 720-68723-7**

**Matrix: Water**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			11/24/15 04:43	1
Acetone	ND		50		ug/L			11/24/15 04:43	1
Benzene	ND		0.50		ug/L			11/24/15 04:43	1
Dichlorobromomethane	ND		0.50		ug/L			11/24/15 04:43	1
Bromobenzene	ND		1.0		ug/L			11/24/15 04:43	1
Chlorobromomethane	ND		1.0		ug/L			11/24/15 04:43	1
Bromoform	ND		1.0		ug/L			11/24/15 04:43	1
Bromomethane	ND		1.0		ug/L			11/24/15 04:43	1
2-Butanone (MEK)	ND		50		ug/L			11/24/15 04:43	1
n-Butylbenzene	ND		1.0		ug/L			11/24/15 04:43	1
sec-Butylbenzene	ND		1.0		ug/L			11/24/15 04:43	1
tert-Butylbenzene	ND		1.0		ug/L			11/24/15 04:43	1
Carbon disulfide	ND		5.0		ug/L			11/24/15 04:43	1
Carbon tetrachloride	ND		0.50		ug/L			11/24/15 04:43	1
Chlorobenzene	ND		0.50		ug/L			11/24/15 04:43	1
Chloroethane	ND		1.0		ug/L			11/24/15 04:43	1
Chloroform	ND		1.0		ug/L			11/24/15 04:43	1
Chloromethane	ND		1.0		ug/L			11/24/15 04:43	1
2-Chlorotoluene	ND		0.50		ug/L			11/24/15 04:43	1
4-Chlorotoluene	ND		0.50		ug/L			11/24/15 04:43	1
Chlorodibromomethane	ND		0.50		ug/L			11/24/15 04:43	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/24/15 04:43	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/24/15 04:43	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/24/15 04:43	1
1,3-Dichloropropane	ND		1.0		ug/L			11/24/15 04:43	1
1,1-Dichloropropane	ND		0.50		ug/L			11/24/15 04:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/24/15 04:43	1
Ethylene Dibromide	ND		0.50		ug/L			11/24/15 04:43	1
Dibromomethane	ND		0.50		ug/L			11/24/15 04:43	1
Dichlorodifluoromethane	ND *		0.50		ug/L			11/24/15 04:43	1
1,1-Dichloroethane	ND		0.50		ug/L			11/24/15 04:43	1
1,2-Dichloroethane	ND		0.50		ug/L			11/24/15 04:43	1
1,1-Dichloroethene	ND		0.50		ug/L			11/24/15 04:43	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/24/15 04:43	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/24/15 04:43	1
1,2-Dichloropropane	ND		0.50		ug/L			11/24/15 04:43	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/24/15 04:43	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/24/15 04:43	1
Ethylbenzene	ND		0.50		ug/L			11/24/15 04:43	1
Hexachlorobutadiene	ND		1.0		ug/L			11/24/15 04:43	1
2-Hexanone	ND		50		ug/L			11/24/15 04:43	1
Isopropylbenzene	ND		0.50		ug/L			11/24/15 04:43	1
4-Isopropyltoluene	ND		1.0		ug/L			11/24/15 04:43	1
Methylene Chloride	ND		5.0		ug/L			11/24/15 04:43	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			11/24/15 04:43	1
Naphthalene	ND		1.0		ug/L			11/24/15 04:43	1
N-Propylbenzene	ND		1.0		ug/L			11/24/15 04:43	1
Styrene	ND		0.50		ug/L			11/24/15 04:43	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			11/24/15 04:43	1

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

**Client Sample ID: B-3-GW**

**Lab Sample ID: 720-68723-7**

Date Collected: 11/18/15 12:25

Matrix: Water

Date Received: 11/18/15 15:50

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			11/24/15 04:43	1
<b>Tetrachloroethene</b>	<b>44</b>		0.50		ug/L			11/24/15 04:43	1
<b>Toluene</b>	<b>3.8</b>		0.50		ug/L			11/24/15 04:43	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/24/15 04:43	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/24/15 04:43	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/24/15 04:43	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/24/15 04:43	1
Trichloroethene	ND		0.50		ug/L			11/24/15 04:43	1
Trichlorofluoromethane	ND		1.0		ug/L			11/24/15 04:43	1
1,2,3-Trichloropropane	ND		0.50		ug/L			11/24/15 04:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/24/15 04:43	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			11/24/15 04:43	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			11/24/15 04:43	1
Vinyl acetate	ND		10		ug/L			11/24/15 04:43	1
Vinyl chloride	ND		0.50		ug/L			11/24/15 04:43	1
Xylenes, Total	ND		1.0		ug/L			11/24/15 04:43	1
2,2-Dichloropropane	ND		0.50		ug/L			11/24/15 04:43	1
<b>Gasoline Range Organics (GRO)</b>	<b>52</b>		50		ug/L			11/24/15 04:43	1
<b>-C5-C12</b>									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	88		67 - 130		11/24/15 04:43	1
1,2-Dichloroethane-d4 (Surr)	94		72 - 130		11/24/15 04:43	1
Toluene-d8 (Surr)	85		70 - 130		11/24/15 04:43	1

**Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics [C10-C28]</b>	<b>220</b>		53		ug/L		11/20/15 10:22	11/22/15 05:20	1
<b>Motor Oil Range Organics [C24-C36]</b>	<b>930</b>		110		ug/L		11/20/15 10:22	11/22/15 05:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.06		0 - 5	11/20/15 10:22	11/22/15 05:20	1
p-Terphenyl	99		31 - 150	11/20/15 10:22	11/22/15 05:20	1

**Method: 6010B - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		11/20/15 16:54	11/23/15 15:22	1
Arsenic	ND		0.010		mg/L		11/20/15 16:54	11/23/15 15:22	1
<b>Barium</b>	<b>0.11</b>		0.050		mg/L		11/20/15 16:54	11/23/15 15:22	1
Beryllium	ND		0.0020		mg/L		11/20/15 16:54	11/23/15 15:22	1
Cadmium	ND		0.0020		mg/L		11/20/15 16:54	11/23/15 15:22	1
Chromium	ND		0.010		mg/L		11/20/15 16:54	11/23/15 15:22	1
Cobalt	ND		0.0020		mg/L		11/20/15 16:54	11/23/15 15:22	1
Copper	ND		0.020		mg/L		11/20/15 16:54	11/23/15 15:22	1
Lead	ND		0.0050		mg/L		11/20/15 16:54	11/23/15 15:22	1
<b>Molybdenum</b>	<b>0.034</b>		0.010		mg/L		11/20/15 16:54	11/23/15 15:22	1
Nickel	ND		0.010		mg/L		11/20/15 16:54	11/23/15 15:22	1
Selenium	ND		0.020		mg/L		11/20/15 16:54	11/23/15 15:22	1
Silver	ND		0.0050		mg/L		11/20/15 16:54	11/23/15 15:22	1
Thallium	ND		0.010		mg/L		11/20/15 16:54	11/23/15 15:22	1

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
 Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

**Client Sample ID: B-3-GW**  
**Date Collected: 11/18/15 12:25**  
**Date Received: 11/18/15 15:50**

**Lab Sample ID: 720-68723-7**  
**Matrix: Water**

**Method: 6010B - Metals (ICP) - Dissolved (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	ND		0.010		mg/L		11/20/15 16:54	11/23/15 15:22	1
<b>Zinc</b>	<b>0.024</b>		0.020		mg/L		11/20/15 16:54	11/23/15 15:22	1

**Method: 7470A - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		11/24/15 11:01	11/24/15 18:41	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

**Client Sample ID: B-2-3**  
**Date Collected: 11/18/15 08:30**  
**Date Received: 11/18/15 15:50**

**Lab Sample ID: 720-68723-8**  
**Matrix: Solid**

## Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:50	1
Dieldrin	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:50	1
Endrin aldehyde	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:50	1
Endrin	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:50	1
Endrin ketone	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:50	1
Heptachlor	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:50	1
Heptachlor epoxide	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:50	1
4,4'-DDT	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:50	1
4,4'-DDE	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:50	1
4,4'-DDD	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:50	1
Endosulfan I	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:50	1
Endosulfan II	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:50	1
alpha-BHC	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:50	1
beta-BHC	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:50	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:50	1
delta-BHC	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:50	1
Endosulfan sulfate	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:50	1
Methoxychlor	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:50	1
Toxaphene	ND		40		ug/Kg		11/20/15 15:24	11/22/15 17:50	1
Chlordane (technical)	ND		40		ug/Kg		11/20/15 15:24	11/22/15 17:50	1
alpha-Chlordane	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:50	1
gamma-Chlordane	ND		2.0		ug/Kg		11/20/15 15:24	11/22/15 17:50	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>Tetrachloro-m-xylene</i>	91		57 - 122				11/20/15 15:24	11/22/15 17:50	1
<i>DCB Decachlorobiphenyl</i>	101		21 - 136				11/20/15 15:24	11/22/15 17:50	1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		11/20/15 15:24	11/21/15 19:55	1
PCB-1221	ND		50		ug/Kg		11/20/15 15:24	11/21/15 19:55	1
PCB-1232	ND		50		ug/Kg		11/20/15 15:24	11/21/15 19:55	1
PCB-1242	ND		50		ug/Kg		11/20/15 15:24	11/21/15 19:55	1
PCB-1248	ND		50		ug/Kg		11/20/15 15:24	11/21/15 19:55	1
PCB-1254	ND		50		ug/Kg		11/20/15 15:24	11/21/15 19:55	1
PCB-1260	ND		50		ug/Kg		11/20/15 15:24	11/21/15 19:55	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>Tetrachloro-m-xylene</i>	76		45 - 132				11/20/15 15:24	11/21/15 19:55	1
<i>DCB Decachlorobiphenyl</i>	80		42 - 146				11/20/15 15:24	11/21/15 19:55	1

TestAmerica Pleasanton



# Client Sample Results

Client: Ninyo & Moore  
 Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

**Client Sample ID: B-2-15**

**Date Collected: 11/18/15 09:19**

**Date Received: 11/18/15 15:50**

**Lab Sample ID: 720-68723-10**

**Matrix: Solid**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
Acetone	ND		46		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
Benzene	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
Dichlorobromomethane	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
Bromobenzene	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
Chlorobromomethane	ND		19		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
Bromoform	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
Bromomethane	ND		9.3		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
2-Butanone (MEK)	ND		46		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
n-Butylbenzene	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
sec-Butylbenzene	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
tert-Butylbenzene	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
Carbon disulfide	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
Carbon tetrachloride	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
Chlorobenzene	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
Chloroethane	ND		9.3		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
Chloroform	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
Chloromethane	ND		9.3		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
2-Chlorotoluene	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
4-Chlorotoluene	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
Chlorodibromomethane	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
1,2-Dichlorobenzene	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
1,3-Dichlorobenzene	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
1,4-Dichlorobenzene	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
1,3-Dichloropropane	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
1,1-Dichloropropane	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
1,2-Dibromo-3-Chloropropane	ND		9.3		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
Ethylene Dibromide	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
Dibromomethane	ND		9.3		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
Dichlorodifluoromethane	ND		9.3		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
1,1-Dichloroethane	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
1,2-Dichloroethane	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
1,1-Dichloroethene	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
cis-1,2-Dichloroethene	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
trans-1,2-Dichloroethene	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
1,2-Dichloropropane	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
cis-1,3-Dichloropropene	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
trans-1,3-Dichloropropene	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
Ethylbenzene	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
Hexachlorobutadiene	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
2-Hexanone	ND		46		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
Isopropylbenzene	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
4-Isopropyltoluene	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
Methylene Chloride	ND		9.3		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
4-Methyl-2-pentanone (MIBK)	ND		46		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
Naphthalene	ND		9.3		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
N-Propylbenzene	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
Styrene	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
1,1,1,2-Tetrachloroethane	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

**Client Sample ID: B-2-15**

**Lab Sample ID: 720-68723-10**

**Date Collected: 11/18/15 09:19**

**Matrix: Solid**

**Date Received: 11/18/15 15:50**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
Tetrachloroethene	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
Toluene	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
1,2,3-Trichlorobenzene	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
1,2,4-Trichlorobenzene	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
1,1,1-Trichloroethane	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
1,1,2-Trichloroethane	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
Trichloroethene	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
Trichlorofluoromethane	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
1,2,3-Trichloropropane	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
1,2,4-Trimethylbenzene	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
1,3,5-Trimethylbenzene	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
Vinyl acetate	ND		19		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
Vinyl chloride	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
Xylenes, Total	ND		9.3		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
2,2-Dichloropropane	ND		4.6		ug/Kg		11/22/15 07:00	11/22/15 19:40	1
Gasoline Range Organics (GRO) -C5-C12	ND		230		ug/Kg		11/22/15 07:00	11/22/15 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	81		45 - 131	11/22/15 07:00	11/22/15 19:40	1
1,2-Dichloroethane-d4 (Surr)	104		60 - 140	11/22/15 07:00	11/22/15 19:40	1
Toluene-d8 (Surr)	86		58 - 140	11/22/15 07:00	11/22/15 19:40	1

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Bis(2-chloroethyl)ether	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
2-Chlorophenol	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
1,3-Dichlorobenzene	ND	*	0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
1,4-Dichlorobenzene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Benzyl alcohol	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
1,2-Dichlorobenzene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
2-Methylphenol	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Methylphenol, 3 & 4	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
N-Nitrosodi-n-propylamine	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Hexachloroethane	ND	*	0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Nitrobenzene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Isophorone	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
2-Nitrophenol	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
2,4-Dimethylphenol	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Bis(2-chloroethoxy)methane	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
2,4-Dichlorophenol	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
1,2,4-Trichlorobenzene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Naphthalene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
4-Chloroaniline	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Hexachlorobutadiene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
4-Chloro-3-methylphenol	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
2-Methylnaphthalene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

**Client Sample ID: B-2-15**

**Lab Sample ID: 720-68723-10**

**Date Collected: 11/18/15 09:19**

**Matrix: Solid**

**Date Received: 11/18/15 15:50**

**Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
2,4,6-Trichlorophenol	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
2,4,5-Trichlorophenol	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
2-Chloronaphthalene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
2-Nitroaniline	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Dimethyl phthalate	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Acenaphthylene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
3-Nitroaniline	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Acenaphthene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
2,4-Dinitrophenol	ND		0.66		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
4-Nitrophenol	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Dibenzofuran	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
2,4-Dinitrotoluene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
2,6-Dinitrotoluene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Diethyl phthalate	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
4-Chlorophenyl phenyl ether	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Fluorene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
4-Nitroaniline	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
2-Methyl-4,6-dinitrophenol	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
N-Nitrosodiphenylamine	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
4-Bromophenyl phenyl ether	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Hexachlorobenzene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Pentachlorophenol	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Phenanthrene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Anthracene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Di-n-butyl phthalate	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Fluoranthene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Pyrene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Butyl benzyl phthalate	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
3,3'-Dichlorobenzidine	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Benzo[a]anthracene	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Bis(2-ethylhexyl) phthalate	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Chrysene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Di-n-octyl phthalate	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Benzo[b]fluoranthene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Benzo[a]pyrene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Benzo[k]fluoranthene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Indeno[1,2,3-cd]pyrene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Benzo[g,h,i]perylene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Benzoic acid	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Azobenzene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Dibenz(a,h)anthracene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	60		21 - 98				11/23/15 10:18	11/24/15 15:24	1
2-Fluorobiphenyl	79		30 - 112				11/23/15 10:18	11/24/15 15:24	1
Terphenyl-d14	103		32 - 117				11/23/15 10:18	11/24/15 15:24	1
2-Fluorophenol	79		28 - 98				11/23/15 10:18	11/24/15 15:24	1
Phenol-d5	75		23 - 101				11/23/15 10:18	11/24/15 15:24	1
2,4,6-Tribromophenol	100		37 - 114				11/23/15 10:18	11/24/15 15:24	1

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

**Client Sample ID: B-2-3,-7,-15,-18**

**Lab Sample ID: 720-68723-12**

**Date Collected: 11/18/15 09:27**

**Matrix: Solid**

**Date Received: 11/18/15 15:50**

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics [C10-C28]</b>	<b>1.3</b>		0.99		mg/Kg		11/23/15 15:06	11/24/15 19:44	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		11/23/15 15:06	11/24/15 19:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.03		0 - 1				11/23/15 15:06	11/24/15 19:44	1
p-Terphenyl	94		38 - 148				11/23/15 15:06	11/24/15 19:44	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.6		mg/Kg		11/19/15 18:47	11/23/15 20:10	4
<b>Arsenic</b>	<b>8.7</b>		3.1		mg/Kg		11/19/15 18:47	11/23/15 20:10	4
<b>Barium</b>	<b>150</b>		1.6		mg/Kg		11/19/15 18:47	11/23/15 20:10	4
<b>Beryllium</b>	<b>0.40</b>		0.31		mg/Kg		11/19/15 18:47	11/23/15 20:10	4
Cadmium	ND		0.39		mg/Kg		11/19/15 18:47	11/23/15 20:10	4
<b>Chromium</b>	<b>46</b>		1.6		mg/Kg		11/19/15 18:47	11/23/15 20:10	4
<b>Cobalt</b>	<b>12</b>		0.62		mg/Kg		11/19/15 18:47	11/23/15 20:10	4
<b>Copper</b>	<b>20</b>		4.7		mg/Kg		11/19/15 18:47	11/23/15 20:10	4
<b>Lead</b>	<b>7.6</b>		1.6		mg/Kg		11/19/15 18:47	11/23/15 20:10	4
Molybdenum	ND		1.6		mg/Kg		11/19/15 18:47	11/23/15 20:10	4
<b>Nickel</b>	<b>57</b>		1.6		mg/Kg		11/19/15 18:47	11/23/15 20:10	4
Selenium	ND		3.1		mg/Kg		11/19/15 18:47	11/23/15 20:10	4
Silver	ND		0.78		mg/Kg		11/19/15 18:47	11/23/15 20:10	4
Thallium	ND		1.6		mg/Kg		11/19/15 18:47	11/23/15 20:10	4
<b>Vanadium</b>	<b>38</b>		1.6		mg/Kg		11/19/15 18:47	11/23/15 20:10	4
<b>Zinc</b>	<b>58</b>		4.7		mg/Kg		11/19/15 18:47	11/23/15 20:10	4

## Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.19</b>		0.0091		mg/Kg		11/19/15 17:01	11/23/15 16:12	1

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

**Client Sample ID: B-3-1**  
**Date Collected: 11/18/15 11:25**  
**Date Received: 11/18/15 15:50**

**Lab Sample ID: 720-68723-13**  
**Matrix: Solid**

## Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		1.9		ug/Kg		11/20/15 15:24	11/23/15 14:14	1
Dieldrin	ND		1.9		ug/Kg		11/20/15 15:24	11/23/15 14:14	1
Endrin aldehyde	ND		1.9		ug/Kg		11/20/15 15:24	11/23/15 14:14	1
Endrin	ND		1.9		ug/Kg		11/20/15 15:24	11/23/15 14:14	1
Endrin ketone	ND		1.9		ug/Kg		11/20/15 15:24	11/23/15 14:14	1
Heptachlor	ND		1.9		ug/Kg		11/20/15 15:24	11/23/15 14:14	1
Heptachlor epoxide	ND		1.9		ug/Kg		11/20/15 15:24	11/23/15 14:14	1
4,4'-DDT	ND		1.9		ug/Kg		11/20/15 15:24	11/23/15 14:14	1
4,4'-DDE	ND		1.9		ug/Kg		11/20/15 15:24	11/23/15 14:14	1
4,4'-DDD	ND		1.9		ug/Kg		11/20/15 15:24	11/23/15 14:14	1
Endosulfan I	ND		1.9		ug/Kg		11/20/15 15:24	11/23/15 14:14	1
Endosulfan II	ND		1.9		ug/Kg		11/20/15 15:24	11/23/15 14:14	1
alpha-BHC	ND		1.9		ug/Kg		11/20/15 15:24	11/23/15 14:14	1
beta-BHC	ND		1.9		ug/Kg		11/20/15 15:24	11/23/15 14:14	1
gamma-BHC (Lindane)	ND		1.9		ug/Kg		11/20/15 15:24	11/23/15 14:14	1
delta-BHC	ND		1.9		ug/Kg		11/20/15 15:24	11/23/15 14:14	1
Endosulfan sulfate	ND		1.9		ug/Kg		11/20/15 15:24	11/23/15 14:14	1
Methoxychlor	ND		1.9		ug/Kg		11/20/15 15:24	11/23/15 14:14	1
Toxaphene	ND		39		ug/Kg		11/20/15 15:24	11/23/15 14:14	1
Chlordane (technical)	ND		39		ug/Kg		11/20/15 15:24	11/23/15 14:14	1
alpha-Chlordane	ND		1.9		ug/Kg		11/20/15 15:24	11/23/15 14:14	1
gamma-Chlordane	ND		1.9		ug/Kg		11/20/15 15:24	11/23/15 14:14	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>Tetrachloro-m-xylene</i>	97		57 - 122				11/20/15 15:24	11/23/15 14:14	1
<i>DCB Decachlorobiphenyl</i>	106		21 - 136				11/20/15 15:24	11/23/15 14:14	1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		48		ug/Kg		11/20/15 15:24	11/21/15 20:12	1
PCB-1221	ND		48		ug/Kg		11/20/15 15:24	11/21/15 20:12	1
PCB-1232	ND		48		ug/Kg		11/20/15 15:24	11/21/15 20:12	1
PCB-1242	ND		48		ug/Kg		11/20/15 15:24	11/21/15 20:12	1
PCB-1248	ND		48		ug/Kg		11/20/15 15:24	11/21/15 20:12	1
PCB-1254	ND		48		ug/Kg		11/20/15 15:24	11/21/15 20:12	1
PCB-1260	ND		48		ug/Kg		11/20/15 15:24	11/21/15 20:12	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>Tetrachloro-m-xylene</i>	79		45 - 132				11/20/15 15:24	11/21/15 20:12	1
<i>DCB Decachlorobiphenyl</i>	85		42 - 146				11/20/15 15:24	11/21/15 20:12	1

TestAmerica Pleasanton



# Client Sample Results

Client: Ninyo & Moore  
 Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

**Client Sample ID: B-3-15**

**Date Collected: 11/18/15 11:56**

**Date Received: 11/18/15 15:50**

**Lab Sample ID: 720-68723-16**

**Matrix: Solid**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
Acetone	ND		48		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
Benzene	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
Dichlorobromomethane	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
Bromobenzene	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
Chlorobromomethane	ND		19		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
Bromoform	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
Bromomethane	ND		9.6		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
2-Butanone (MEK)	ND		48		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
n-Butylbenzene	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
sec-Butylbenzene	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
tert-Butylbenzene	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
Carbon disulfide	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
Carbon tetrachloride	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
Chlorobenzene	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
Chloroethane	ND		9.6		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
Chloroform	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
Chloromethane	ND		9.6		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
2-Chlorotoluene	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
4-Chlorotoluene	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
Chlorodibromomethane	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
1,3-Dichloropropane	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
1,1-Dichloropropane	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
1,2-Dibromo-3-Chloropropane	ND		9.6		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
Ethylene Dibromide	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
Dibromomethane	ND		9.6		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
Dichlorodifluoromethane	ND		9.6		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
1,1-Dichloroethane	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
1,2-Dichloroethane	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
1,1-Dichloroethene	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
1,2-Dichloropropane	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
Ethylbenzene	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
Hexachlorobutadiene	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
2-Hexanone	ND		48		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
Isopropylbenzene	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
4-Isopropyltoluene	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
Methylene Chloride	ND		9.6		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
Naphthalene	ND		9.6		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
N-Propylbenzene	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
Styrene	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1

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# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

**Client Sample ID: B-3-15**

**Lab Sample ID: 720-68723-16**

**Date Collected: 11/18/15 11:56**

**Matrix: Solid**

**Date Received: 11/18/15 15:50**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
Tetrachloroethene	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
Toluene	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
Trichloroethene	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
Trichlorofluoromethane	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
Vinyl acetate	ND		19		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
Vinyl chloride	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
Xylenes, Total	ND		9.6		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
2,2-Dichloropropane	ND		4.8		ug/Kg		11/22/15 07:00	11/22/15 20:10	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		11/22/15 07:00	11/22/15 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	82		45 - 131	11/22/15 07:00	11/22/15 20:10	1
1,2-Dichloroethane-d4 (Surr)	105		60 - 140	11/22/15 07:00	11/22/15 20:10	1
Toluene-d8 (Surr)	87		58 - 140	11/22/15 07:00	11/22/15 20:10	1

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Bis(2-chloroethyl)ether	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
2-Chlorophenol	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
1,3-Dichlorobenzene	ND	*	0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
1,4-Dichlorobenzene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Benzyl alcohol	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
1,2-Dichlorobenzene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
2-Methylphenol	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Methylphenol, 3 & 4	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
N-Nitrosodi-n-propylamine	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Hexachloroethane	ND	*	0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Nitrobenzene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Isophorone	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
2-Nitrophenol	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
2,4-Dimethylphenol	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Bis(2-chloroethoxy)methane	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
2,4-Dichlorophenol	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
1,2,4-Trichlorobenzene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Naphthalene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
4-Chloroaniline	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Hexachlorobutadiene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
4-Chloro-3-methylphenol	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
2-Methylnaphthalene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

**Client Sample ID: B-3-15**

**Lab Sample ID: 720-68723-16**

**Date Collected: 11/18/15 11:56**

**Matrix: Solid**

**Date Received: 11/18/15 15:50**

**Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
2,4,6-Trichlorophenol	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
2,4,5-Trichlorophenol	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
2-Chloronaphthalene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
2-Nitroaniline	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Dimethyl phthalate	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Acenaphthylene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
3-Nitroaniline	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Acenaphthene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
2,4-Dinitrophenol	ND		0.65		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
4-Nitrophenol	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Dibenzofuran	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
2,4-Dinitrotoluene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
2,6-Dinitrotoluene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Diethyl phthalate	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
4-Chlorophenyl phenyl ether	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Fluorene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
4-Nitroaniline	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
2-Methyl-4,6-dinitrophenol	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
N-Nitrosodiphenylamine	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
4-Bromophenyl phenyl ether	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Hexachlorobenzene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Pentachlorophenol	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Phenanthrene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Anthracene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Di-n-butyl phthalate	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Fluoranthene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Pyrene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Butyl benzyl phthalate	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
3,3'-Dichlorobenzidine	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Benzo[a]anthracene	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Bis(2-ethylhexyl) phthalate	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Chrysene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Di-n-octyl phthalate	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Benzo[b]fluoranthene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Benzo[a]pyrene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Benzo[k]fluoranthene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Indeno[1,2,3-cd]pyrene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Benzo[g,h,i]perylene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Benzoic acid	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Azobenzene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Dibenz(a,h)anthracene	ND		0.066		mg/Kg		11/23/15 10:18	11/24/15 18:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	58		21 - 98				11/23/15 10:18	11/24/15 18:25	1
2-Fluorobiphenyl	74		30 - 112				11/23/15 10:18	11/24/15 18:25	1
Terphenyl-d14	88		32 - 117				11/23/15 10:18	11/24/15 18:25	1
2-Fluorophenol	70		28 - 98				11/23/15 10:18	11/24/15 18:25	1
Phenol-d5	69		23 - 101				11/23/15 10:18	11/24/15 18:25	1
2,4,6-Tribromophenol	80		37 - 114				11/23/15 10:18	11/24/15 18:25	1

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

**Client Sample ID: B-3-1,-7,-11,-15**

**Lab Sample ID: 720-68723-17**

**Date Collected: 11/18/15 11:56**

**Matrix: Solid**

**Date Received: 11/18/15 15:50**

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		11/23/15 15:06	11/24/15 20:08	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		11/23/15 15:06	11/24/15 20:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.008		0 - 1				11/23/15 15:06	11/24/15 20:08	1
p-Terphenyl	93		38 - 148				11/23/15 15:06	11/24/15 20:08	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.33		mg/Kg		11/19/15 18:47	11/23/15 22:17	1
<b>Arsenic</b>	<b>2.6</b>		2.6		mg/Kg		11/19/15 18:47	11/23/15 20:15	4
<b>Barium</b>	<b>97</b>		1.3		mg/Kg		11/19/15 18:47	11/23/15 20:15	4
<b>Beryllium</b>	<b>0.24</b>		0.065		mg/Kg		11/19/15 18:47	11/23/15 22:17	1
Cadmium	ND		0.082		mg/Kg		11/19/15 18:47	11/23/15 22:17	1
<b>Chromium</b>	<b>27</b>		1.3		mg/Kg		11/19/15 18:47	11/23/15 20:15	4
<b>Cobalt</b>	<b>4.4</b>		0.52		mg/Kg		11/19/15 18:47	11/23/15 20:15	4
<b>Copper</b>	<b>12</b>		3.9		mg/Kg		11/19/15 18:47	11/23/15 20:15	4
<b>Lead</b>	<b>5.6</b>		1.3		mg/Kg		11/19/15 18:47	11/23/15 20:15	4
Molybdenum	ND		0.33		mg/Kg		11/19/15 18:47	11/23/15 22:17	1
<b>Nickel</b>	<b>26</b>		1.3		mg/Kg		11/19/15 18:47	11/23/15 20:15	4
Selenium	ND		0.65		mg/Kg		11/19/15 18:47	11/23/15 22:17	1
Silver	ND		0.16		mg/Kg		11/19/15 18:47	11/23/15 22:17	1
Thallium	ND		0.33		mg/Kg		11/19/15 18:47	11/23/15 22:17	1
<b>Vanadium</b>	<b>20</b>		1.3		mg/Kg		11/19/15 18:47	11/23/15 20:15	4
<b>Zinc</b>	<b>24</b>		3.9		mg/Kg		11/19/15 18:47	11/23/15 20:15	4

## Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.19</b>		0.0085		mg/Kg		11/19/15 17:01	11/23/15 16:14	1

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

**Client Sample ID: B-4-1**  
**Date Collected: 11/18/15 11:30**  
**Date Received: 11/18/15 15:50**

**Lab Sample ID: 720-68723-18**  
**Matrix: Solid**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
Acetone	ND		48		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
Benzene	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
Dichlorobromomethane	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
Bromobenzene	ND	*	4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
Chlorobromomethane	ND		19		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
Bromoform	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
Bromomethane	ND		9.6		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
2-Butanone (MEK)	ND		48		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
n-Butylbenzene	ND	*	4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
sec-Butylbenzene	ND	*	4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
tert-Butylbenzene	ND	*	4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
Carbon disulfide	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
Carbon tetrachloride	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
Chlorobenzene	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
Chloroethane	ND		9.6		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
Chloroform	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
Chloromethane	ND		9.6		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
2-Chlorotoluene	ND	*	4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
4-Chlorotoluene	ND	*	4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
Chlorodibromomethane	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
1,2-Dichlorobenzene	ND	*	4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
1,3-Dichlorobenzene	ND	*	4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
1,4-Dichlorobenzene	ND	*	4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
1,3-Dichloropropane	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
1,1-Dichloropropene	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
1,2-Dibromo-3-Chloropropane	ND	*	9.6		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
Ethylene Dibromide	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
Dibromomethane	ND		9.6		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
Dichlorodifluoromethane	ND		9.6		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
1,1-Dichloroethane	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
1,2-Dichloroethane	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
1,1-Dichloroethene	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
1,2-Dichloropropane	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
Ethylbenzene	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
Hexachlorobutadiene	ND	*	4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
2-Hexanone	ND		48		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
Isopropylbenzene	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
4-Isopropyltoluene	ND	*	4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
Methylene Chloride	ND		9.6		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
Naphthalene	ND	*	9.6		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
N-Propylbenzene	ND	*	4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
Styrene	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1

TestAmerica Pleasanton



# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

**Client Sample ID: B-4-1**  
**Date Collected: 11/18/15 11:30**  
**Date Received: 11/18/15 15:50**

**Lab Sample ID: 720-68723-18**  
**Matrix: Solid**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
Tetrachloroethene	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
<b>Toluene</b>	<b>23</b>		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
1,2,3-Trichlorobenzene	ND	*	4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
1,2,4-Trichlorobenzene	ND	*	4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
Trichloroethene	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
Trichlorofluoromethane	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
1,2,3-Trichloropropane	ND	*	4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
1,2,4-Trimethylbenzene	ND	*	4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
1,3,5-Trimethylbenzene	ND	*	4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
Vinyl acetate	ND		19		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
Vinyl chloride	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
Xylenes, Total	ND		9.6		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
2,2-Dichloropropane	ND		4.8		ug/Kg		11/24/15 13:17	11/24/15 16:02	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		11/24/15 13:17	11/24/15 16:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	75		45 - 131	11/24/15 13:17	11/24/15 16:02	1
1,2-Dichloroethane-d4 (Surr)	106		60 - 140	11/24/15 13:17	11/24/15 16:02	1
Toluene-d8 (Surr)	88		58 - 140	11/24/15 13:17	11/24/15 16:02	1

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Bis(2-chloroethyl)ether	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
2-Chlorophenol	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
1,3-Dichlorobenzene	ND	*	2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
1,4-Dichlorobenzene	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Benzyl alcohol	ND		6.7		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
1,2-Dichlorobenzene	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
2-Methylphenol	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Methylphenol, 3 & 4	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
N-Nitrosodi-n-propylamine	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Hexachloroethane	ND	*	2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Nitrobenzene	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Isophorone	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
2-Nitrophenol	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
2,4-Dimethylphenol	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Bis(2-chloroethoxy)methane	ND		6.7		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
2,4-Dichlorophenol	ND		13		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
1,2,4-Trichlorobenzene	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Naphthalene	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
4-Chloroaniline	ND		6.7		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Hexachlorobutadiene	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
4-Chloro-3-methylphenol	ND		6.7		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
2-Methylnaphthalene	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

**Client Sample ID: B-4-1**  
**Date Collected: 11/18/15 11:30**  
**Date Received: 11/18/15 15:50**

**Lab Sample ID: 720-68723-18**  
**Matrix: Solid**

**Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		6.7		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
2,4,6-Trichlorophenol	ND		6.7		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
2,4,5-Trichlorophenol	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
2-Chloronaphthalene	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
2-Nitroaniline	ND		13		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Dimethyl phthalate	ND		6.7		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Acenaphthylene	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
3-Nitroaniline	ND		6.7		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Acenaphthene	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
2,4-Dinitrophenol	ND		26		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
4-Nitrophenol	ND		13		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Dibenzofuran	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
2,4-Dinitrotoluene	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
2,6-Dinitrotoluene	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Diethyl phthalate	ND		6.7		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
4-Chlorophenyl phenyl ether	ND		6.7		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Fluorene	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
4-Nitroaniline	ND		13		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
2-Methyl-4,6-dinitrophenol	ND		13		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
N-Nitrosodiphenylamine	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
4-Bromophenyl phenyl ether	ND		6.7		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Hexachlorobenzene	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Pentachlorophenol	ND		13		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Phenanthrene	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Anthracene	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Di-n-butyl phthalate	ND		6.7		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Fluoranthene	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Pyrene	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Butyl benzyl phthalate	ND		6.7		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
3,3'-Dichlorobenzidine	ND		6.7		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Benzo[a]anthracene	ND		13		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Bis(2-ethylhexyl) phthalate	ND		13		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Chrysene	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Di-n-octyl phthalate	ND		6.7		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Benzo[b]fluoranthene	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Benzo[a]pyrene	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Benzo[k]fluoranthene	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Indeno[1,2,3-cd]pyrene	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Benzo[g,h,i]perylene	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Benzoic acid	ND		13		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Azobenzene	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Dibenz(a,h)anthracene	ND		2.6		mg/Kg		11/23/15 10:18	11/24/15 20:38	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	0	X D	21 - 98				11/23/15 10:18	11/24/15 20:38	20
2-Fluorobiphenyl	0	X D	30 - 112				11/23/15 10:18	11/24/15 20:38	20
Terphenyl-d14	0	X D	32 - 117				11/23/15 10:18	11/24/15 20:38	20
2-Fluorophenol	0	X D	28 - 98				11/23/15 10:18	11/24/15 20:38	20
Phenol-d5	0	X D	23 - 101				11/23/15 10:18	11/24/15 20:38	20
2,4,6-Tribromophenol	0	X D	37 - 114				11/23/15 10:18	11/24/15 20:38	20

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

**Client Sample ID: B-4-1,-5,-10,-15**

**Lab Sample ID: 720-68723-22**

**Date Collected: 11/18/15 13:03**

**Matrix: Solid**

**Date Received: 11/18/15 15:50**

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	110		5.0		mg/Kg		11/23/15 15:06	11/24/15 22:34	5
Motor Oil Range Organics [C24-C36]	630		250		mg/Kg		11/23/15 15:06	11/24/15 22:34	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 1				11/23/15 15:06	11/24/15 22:34	5
p-Terphenyl	0	X D	38 - 148				11/23/15 15:06	11/24/15 22:34	5

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.6		mg/Kg		11/19/15 18:47	11/23/15 20:20	4
Arsenic	7.4		3.2		mg/Kg		11/19/15 18:47	11/23/15 20:20	4
Barium	180		1.6		mg/Kg		11/19/15 18:47	11/23/15 20:20	4
Beryllium	0.37		0.32		mg/Kg		11/19/15 18:47	11/23/15 22:22	4
Cadmium	ND		0.40		mg/Kg		11/19/15 18:47	11/23/15 20:20	4
Chromium	38		1.6		mg/Kg		11/19/15 18:47	11/23/15 20:20	4
Cobalt	12		0.65		mg/Kg		11/19/15 18:47	11/23/15 20:20	4
Copper	30		4.8		mg/Kg		11/19/15 18:47	11/23/15 20:20	4
Lead	78		1.6		mg/Kg		11/19/15 18:47	11/23/15 20:20	4
Molybdenum	ND		1.6		mg/Kg		11/19/15 18:47	11/23/15 20:20	4
Nickel	43		1.6		mg/Kg		11/19/15 18:47	11/23/15 20:20	4
Selenium	ND		3.2		mg/Kg		11/19/15 18:47	11/23/15 20:20	4
Silver	ND		0.81		mg/Kg		11/19/15 18:47	11/23/15 20:20	4
Thallium	ND		1.6		mg/Kg		11/19/15 18:47	11/23/15 20:20	4
Vanadium	53		1.6		mg/Kg		11/19/15 18:47	11/23/15 20:20	4
Zinc	130		4.8		mg/Kg		11/19/15 18:47	11/23/15 20:20	4

## Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.0091		mg/Kg		11/19/15 17:01	11/23/15 16:21	1

# Surrogate Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (45-131)	12DCE (60-140)	TOL (58-140)
720-68723-3	B-1-13	84	103	88
720-68723-10	B-2-15	81	104	86
720-68723-16	B-3-15	82	105	87
720-68723-18	B-4-1	75	106	88
LCS 720-193023/6	Lab Control Sample	100	98	100
LCS 720-193023/8	Lab Control Sample	100	102	98
LCS 720-193111/5	Lab Control Sample	96	96	96
LCS 720-193111/7	Lab Control Sample	96	102	100
LCSD 720-193023/7	Lab Control Sample Dup	100	98	101
LCSD 720-193023/9	Lab Control Sample Dup	101	98	98
LCSD 720-193111/6	Lab Control Sample Dup	98	95	97
LCSD 720-193111/8	Lab Control Sample Dup	98	100	98
MB 720-193023/5	Method Blank	95	103	94
MB 720-193111/4	Method Blank	93	99	95

#### Surrogate Legend

BFB = 4-Bromofluorobenzene  
12DCE = 1,2-Dichloroethane-d4 (Surr)  
TOL = Toluene-d8 (Surr)

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (67-130)	12DCE (72-130)	TOL (70-130)
720-68723-6	B-2-GW	86	92	81
720-68723-7	B-3-GW	88	94	85
LCS 720-193083/6	Lab Control Sample	92	74	87
LCS 720-193083/8	Lab Control Sample	94	80	88
LCSD 720-193083/7	Lab Control Sample Dup	93	76	88
LCSD 720-193083/9	Lab Control Sample Dup	93	82	87
MB 720-193083/5	Method Blank	85	78	84

#### Surrogate Legend

BFB = 4-Bromofluorobenzene  
12DCE = 1,2-Dichloroethane-d4 (Surr)  
TOL = Toluene-d8 (Surr)

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		NBZ (21-98)	FBP (30-112)	TPH (32-117)	2FP (28-98)	PHL (23-101)	TBP (37-114)
720-68723-3	B-1-13	59	73	90	71	69	81
720-68723-10	B-2-15	60	79	103	79	75	100
720-68723-10 MS	B-2-15	53	69	77	70	64	74
720-68723-10 MSD	B-2-15	58	78	91	76	73	86
720-68723-16	B-3-15	58	74	88	70	69	80

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# Surrogate Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		NBZ (21-98)	FBP (30-112)	TPH (32-117)	2FP (28-98)	PHL (23-101)	TBP (37-114)
720-68723-18	B-4-1	0 X D	0 X D	0 X D	0 X D	0 X D	0 X D
LCS 720-193042/2-A	Lab Control Sample	45	66	85	49	54	88
MB 720-193042/1-A	Method Blank	63	80	106	84	75	87

### Surrogate Legend

NBZ = Nitrobenzene-d5  
FBP = 2-Fluorobiphenyl  
TPH = Terphenyl-d14  
2FP = 2-Fluorophenol  
PHL = Phenol-d5  
TBP = 2,4,6-Tribromophenol

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Silica Gel Cleanup

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		NDA1 (0-1)	PTP1 (38-148)
720-68723-5	B-1-3,-7,-13,-20	0.01	92
720-68723-12	B-2-3,-7,-15,-18	0.03	94
720-68723-17	B-3-1,-7,-11,-15	0.008	93
720-68723-22	B-4-1,-5,-10,-15	0	0 X D
LCS 720-193071/2-A	Lab Control Sample		115
MB 720-193071/1-A	Method Blank	0.007	104

### Surrogate Legend

NDA = Capric Acid (Surr)  
PTP = p-Terphenyl

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water

Prep Type: Silica Gel Cleanup

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		NDA1 (0-5)	PTP1 (31-150)
720-68723-6	B-2-GW	0.006	103
720-68723-7	B-3-GW	0.06	99
LCS 720-192961/2-A	Lab Control Sample		127
LCSD 720-192961/3-A	Lab Control Sample Dup		118
MB 720-192961/1-A	Method Blank	0.01	106

### Surrogate Legend

NDA = Capric Acid (Surr)  
PTP = p-Terphenyl

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# Surrogate Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX2 (57-122)	DCB2 (21-136)
720-68723-1	B-1-3	102	104
LCS 720-192978/2-A	Lab Control Sample	103	114
MB 720-192978/1-A	Method Blank	105	118

#### Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

## Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX2 (57-122)	DCB1 (21-136)
720-68723-8	B-2-3	91	101
720-68723-13	B-3-1	97	106

#### Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (45-132)	DCB1 (42-146)
720-68723-1	B-1-3	82	78
720-68723-8	B-2-3	76	80
720-68723-13	B-3-1	79	85
LCS 720-192977/2-A	Lab Control Sample	85	100
MB 720-192977/1-A	Method Blank	85	97

#### Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl



# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 720-193023/5  
Matrix: Solid  
Analysis Batch: 193023

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			11/22/15 10:32	1
Acetone	ND		50		ug/Kg			11/22/15 10:32	1
Benzene	ND		5.0		ug/Kg			11/22/15 10:32	1
Dichlorobromomethane	ND		5.0		ug/Kg			11/22/15 10:32	1
Bromobenzene	ND		5.0		ug/Kg			11/22/15 10:32	1
Chlorobromomethane	ND		20		ug/Kg			11/22/15 10:32	1
Bromoform	ND		5.0		ug/Kg			11/22/15 10:32	1
Bromomethane	ND		10		ug/Kg			11/22/15 10:32	1
2-Butanone (MEK)	ND		50		ug/Kg			11/22/15 10:32	1
n-Butylbenzene	ND		5.0		ug/Kg			11/22/15 10:32	1
sec-Butylbenzene	ND		5.0		ug/Kg			11/22/15 10:32	1
tert-Butylbenzene	ND		5.0		ug/Kg			11/22/15 10:32	1
Carbon disulfide	ND		5.0		ug/Kg			11/22/15 10:32	1
Carbon tetrachloride	ND		5.0		ug/Kg			11/22/15 10:32	1
Chlorobenzene	ND		5.0		ug/Kg			11/22/15 10:32	1
Chloroethane	ND		10		ug/Kg			11/22/15 10:32	1
Chloroform	ND		5.0		ug/Kg			11/22/15 10:32	1
Chloromethane	ND		10		ug/Kg			11/22/15 10:32	1
2-Chlorotoluene	ND		5.0		ug/Kg			11/22/15 10:32	1
4-Chlorotoluene	ND		5.0		ug/Kg			11/22/15 10:32	1
Chlorodibromomethane	ND		5.0		ug/Kg			11/22/15 10:32	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			11/22/15 10:32	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			11/22/15 10:32	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			11/22/15 10:32	1
1,3-Dichloropropane	ND		5.0		ug/Kg			11/22/15 10:32	1
1,1-Dichloropropene	ND		5.0		ug/Kg			11/22/15 10:32	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg			11/22/15 10:32	1
Ethylene Dibromide	ND		5.0		ug/Kg			11/22/15 10:32	1
Dibromomethane	ND		10		ug/Kg			11/22/15 10:32	1
Dichlorodifluoromethane	ND		10		ug/Kg			11/22/15 10:32	1
1,1-Dichloroethane	ND		5.0		ug/Kg			11/22/15 10:32	1
1,2-Dichloroethane	ND		5.0		ug/Kg			11/22/15 10:32	1
1,1-Dichloroethene	ND		5.0		ug/Kg			11/22/15 10:32	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			11/22/15 10:32	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			11/22/15 10:32	1
1,2-Dichloropropane	ND		5.0		ug/Kg			11/22/15 10:32	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			11/22/15 10:32	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			11/22/15 10:32	1
Ethylbenzene	ND		5.0		ug/Kg			11/22/15 10:32	1
Hexachlorobutadiene	ND		5.0		ug/Kg			11/22/15 10:32	1
2-Hexanone	ND		50		ug/Kg			11/22/15 10:32	1
Isopropylbenzene	ND		5.0		ug/Kg			11/22/15 10:32	1
4-Isopropyltoluene	ND		5.0		ug/Kg			11/22/15 10:32	1
Methylene Chloride	ND		10		ug/Kg			11/22/15 10:32	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			11/22/15 10:32	1
Naphthalene	ND		10		ug/Kg			11/22/15 10:32	1
N-Propylbenzene	ND		5.0		ug/Kg			11/22/15 10:32	1
Styrene	ND		5.0		ug/Kg			11/22/15 10:32	1

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 720-193023/5**  
**Matrix: Solid**  
**Analysis Batch: 193023**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			11/22/15 10:32	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			11/22/15 10:32	1
Tetrachloroethene	ND		5.0		ug/Kg			11/22/15 10:32	1
Toluene	ND		5.0		ug/Kg			11/22/15 10:32	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			11/22/15 10:32	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			11/22/15 10:32	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			11/22/15 10:32	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			11/22/15 10:32	1
Trichloroethene	ND		5.0		ug/Kg			11/22/15 10:32	1
Trichlorofluoromethane	ND		5.0		ug/Kg			11/22/15 10:32	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			11/22/15 10:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			11/22/15 10:32	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			11/22/15 10:32	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			11/22/15 10:32	1
Vinyl acetate	ND		20		ug/Kg			11/22/15 10:32	1
Vinyl chloride	ND		5.0		ug/Kg			11/22/15 10:32	1
Xylenes, Total	ND		10		ug/Kg			11/22/15 10:32	1
2,2-Dichloropropane	ND		5.0		ug/Kg			11/22/15 10:32	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			11/22/15 10:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		45 - 131		11/22/15 10:32	1
1,2-Dichloroethane-d4 (Surr)	103		60 - 140		11/22/15 10:32	1
Toluene-d8 (Surr)	94		58 - 140		11/22/15 10:32	1

**Lab Sample ID: LCS 720-193023/6**  
**Matrix: Solid**  
**Analysis Batch: 193023**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	53.8		ug/Kg		108	70 - 144
Acetone	250	263		ug/Kg		105	30 - 162
Benzene	50.0	47.8		ug/Kg		96	70 - 130
Dichlorobromomethane	50.0	53.0		ug/Kg		106	70 - 140
Bromobenzene	50.0	48.7		ug/Kg		97	70 - 130
Chlorobromomethane	50.0	49.9		ug/Kg		100	70 - 130
Bromoform	50.0	53.3		ug/Kg		107	59 - 158
Bromomethane	50.0	44.6		ug/Kg		89	59 - 132
2-Butanone (MEK)	250	282		ug/Kg		113	53 - 133
n-Butylbenzene	50.0	49.1		ug/Kg		98	70 - 142
sec-Butylbenzene	50.0	47.5		ug/Kg		95	70 - 136
tert-Butylbenzene	50.0	49.4		ug/Kg		99	70 - 130
Carbon disulfide	50.0	44.6		ug/Kg		89	60 - 140
Carbon tetrachloride	50.0	51.0		ug/Kg		102	70 - 142
Chlorobenzene	50.0	46.1		ug/Kg		92	70 - 130
Chloroethane	50.0	43.8		ug/Kg		88	65 - 130
Chloroform	50.0	48.1		ug/Kg		96	77 - 127

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# QC Sample Results

Client: Ninyo & Moore  
 Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 720-193023/6**  
**Matrix: Solid**  
**Analysis Batch: 193023**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	39.5		ug/Kg		79	55 - 140
2-Chlorotoluene	50.0	48.6		ug/Kg		97	70 - 138
4-Chlorotoluene	50.0	48.5		ug/Kg		97	70 - 136
Chlorodibromomethane	50.0	52.3		ug/Kg		105	70 - 146
1,2-Dichlorobenzene	50.0	47.0		ug/Kg		94	70 - 130
1,3-Dichlorobenzene	50.0	47.2		ug/Kg		94	70 - 131
1,4-Dichlorobenzene	50.0	46.5		ug/Kg		93	70 - 130
1,3-Dichloropropane	50.0	49.8		ug/Kg		100	70 - 140
1,1-Dichloropropene	50.0	49.7		ug/Kg		99	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	49.6		ug/Kg		99	60 - 145
Ethylene Dibromide	50.0	52.3		ug/Kg		105	70 - 140
Dibromomethane	50.0	51.9		ug/Kg		104	70 - 139
Dichlorodifluoromethane	50.0	35.3		ug/Kg		71	37 - 158
1,1-Dichloroethane	50.0	48.0		ug/Kg		96	70 - 130
1,2-Dichloroethane	50.0	48.5		ug/Kg		97	70 - 130
1,1-Dichloroethene	50.0	43.8		ug/Kg		88	74 - 122
cis-1,2-Dichloroethene	50.0	47.6		ug/Kg		95	70 - 138
trans-1,2-Dichloroethene	50.0	48.3		ug/Kg		97	67 - 130
1,2-Dichloropropane	50.0	50.1		ug/Kg		100	73 - 127
cis-1,3-Dichloropropene	50.0	54.2		ug/Kg		108	68 - 147
trans-1,3-Dichloropropene	50.0	54.9		ug/Kg		110	70 - 155
Ethylbenzene	50.0	48.0		ug/Kg		96	80 - 137
Hexachlorobutadiene	50.0	48.8		ug/Kg		98	70 - 132
2-Hexanone	250	288		ug/Kg		115	44 - 133
Isopropylbenzene	50.0	50.2		ug/Kg		100	70 - 130
4-Isopropyltoluene	50.0	47.2		ug/Kg		94	70 - 133
Methylene Chloride	50.0	48.2		ug/Kg		96	70 - 134
4-Methyl-2-pentanone (MIBK)	250	288		ug/Kg		115	60 - 160
Naphthalene	50.0	56.8		ug/Kg		114	60 - 147
N-Propylbenzene	50.0	48.8		ug/Kg		98	70 - 130
Styrene	50.0	52.1		ug/Kg		104	70 - 130
1,1,1,2-Tetrachloroethane	50.0	53.9		ug/Kg		108	70 - 130
1,1,1,2,2-Tetrachloroethane	50.0	51.7		ug/Kg		103	70 - 146
Tetrachloroethene	50.0	48.4		ug/Kg		97	70 - 132
Toluene	50.0	45.0		ug/Kg		90	75 - 120
1,2,3-Trichlorobenzene	50.0	51.4		ug/Kg		103	60 - 140
1,2,4-Trichlorobenzene	50.0	52.4		ug/Kg		105	60 - 140
1,1,1-Trichloroethane	50.0	48.5		ug/Kg		97	70 - 130
1,1,2-Trichloroethane	50.0	49.3		ug/Kg		99	70 - 130
Trichloroethene	50.0	49.1		ug/Kg		98	70 - 133
Trichlorofluoromethane	50.0	46.7		ug/Kg		93	60 - 140
1,2,3-Trichloropropane	50.0	52.4		ug/Kg		105	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.3		ug/Kg		91	60 - 140
1,2,4-Trimethylbenzene	50.0	50.1		ug/Kg		100	70 - 130
1,3,5-Trimethylbenzene	50.0	50.0		ug/Kg		100	70 - 131
Vinyl acetate	50.0	63.5		ug/Kg		127	38 - 176
Vinyl chloride	50.0	40.8		ug/Kg		82	58 - 125

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# QC Sample Results

Client: Ninyo & Moore  
 Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 720-193023/6**  
**Matrix: Solid**  
**Analysis Batch: 193023**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	50.0	49.5		ug/Kg		99	70 - 146
o-Xylene	50.0	47.8		ug/Kg		96	70 - 140
2,2-Dichloropropane	50.0	50.9		ug/Kg		102	70 - 162

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	100		45 - 131
1,2-Dichloroethane-d4 (Surr)	98		60 - 140
Toluene-d8 (Surr)	100		58 - 140

**Lab Sample ID: LCS 720-193023/8**  
**Matrix: Solid**  
**Analysis Batch: 193023**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1060		ug/Kg		106	61 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	100		45 - 131
1,2-Dichloroethane-d4 (Surr)	102		60 - 140
Toluene-d8 (Surr)	98		58 - 140

**Lab Sample ID: LCSD 720-193023/7**  
**Matrix: Solid**  
**Analysis Batch: 193023**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	53.6		ug/Kg		107	70 - 144	0	20
Acetone	250	246		ug/Kg		98	30 - 162	7	30
Benzene	50.0	48.1		ug/Kg		96	70 - 130	1	20
Dichlorobromomethane	50.0	53.0		ug/Kg		106	70 - 140	0	20
Bromobenzene	50.0	49.8		ug/Kg		100	70 - 130	2	20
Chlorobromomethane	50.0	49.6		ug/Kg		99	70 - 130	1	20
Bromoform	50.0	52.3		ug/Kg		105	59 - 158	2	20
Bromomethane	50.0	45.8		ug/Kg		92	59 - 132	3	20
2-Butanone (MEK)	250	264		ug/Kg		106	53 - 133	6	20
n-Butylbenzene	50.0	48.9		ug/Kg		98	70 - 142	0	20
sec-Butylbenzene	50.0	48.3		ug/Kg		97	70 - 136	2	20
tert-Butylbenzene	50.0	49.8		ug/Kg		100	70 - 130	1	20
Carbon disulfide	50.0	45.0		ug/Kg		90	60 - 140	1	20
Carbon tetrachloride	50.0	50.7		ug/Kg		101	70 - 142	1	20
Chlorobenzene	50.0	46.6		ug/Kg		93	70 - 130	1	20
Chloroethane	50.0	45.9		ug/Kg		92	65 - 130	5	20
Chloroform	50.0	48.6		ug/Kg		97	77 - 127	1	20
Chloromethane	50.0	40.8		ug/Kg		82	55 - 140	3	20
2-Chlorotoluene	50.0	49.3		ug/Kg		99	70 - 138	1	20
4-Chlorotoluene	50.0	48.6		ug/Kg		97	70 - 136	0	20
Chlorodibromomethane	50.0	52.0		ug/Kg		104	70 - 146	0	20

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-193023/7

Matrix: Solid

Analysis Batch: 193023

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	50.0	47.5		ug/Kg		95	70 - 130	1	20
1,3-Dichlorobenzene	50.0	47.9		ug/Kg		96	70 - 131	1	20
1,4-Dichlorobenzene	50.0	47.3		ug/Kg		95	70 - 130	2	20
1,3-Dichloropropane	50.0	49.7		ug/Kg		99	70 - 140	0	20
1,1-Dichloropropene	50.0	49.6		ug/Kg		99	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	50.0	47.6		ug/Kg		95	60 - 145	4	20
Ethylene Dibromide	50.0	51.5		ug/Kg		103	70 - 140	2	20
Dibromomethane	50.0	51.4		ug/Kg		103	70 - 139	1	20
Dichlorodifluoromethane	50.0	35.1		ug/Kg		70	37 - 158	1	20
1,1-Dichloroethane	50.0	48.5		ug/Kg		97	70 - 130	1	20
1,2-Dichloroethane	50.0	48.3		ug/Kg		97	70 - 130	0	20
1,1-Dichloroethene	50.0	43.9		ug/Kg		88	74 - 122	0	20
cis-1,2-Dichloroethene	50.0	48.2		ug/Kg		96	70 - 138	1	20
trans-1,2-Dichloroethene	50.0	49.4		ug/Kg		99	67 - 130	2	20
1,2-Dichloropropane	50.0	50.2		ug/Kg		100	73 - 127	0	20
cis-1,3-Dichloropropene	50.0	54.6		ug/Kg		109	68 - 147	1	20
trans-1,3-Dichloropropene	50.0	54.0		ug/Kg		108	70 - 155	2	20
Ethylbenzene	50.0	48.7		ug/Kg		97	80 - 137	2	20
Hexachlorobutadiene	50.0	50.0		ug/Kg		100	70 - 132	3	20
2-Hexanone	250	272		ug/Kg		109	44 - 133	6	20
Isopropylbenzene	50.0	51.4		ug/Kg		103	70 - 130	2	20
4-Isopropyltoluene	50.0	47.8		ug/Kg		96	70 - 133	1	20
Methylene Chloride	50.0	48.7		ug/Kg		97	70 - 134	1	20
4-Methyl-2-pentanone (MIBK)	250	273		ug/Kg		109	60 - 160	5	20
Naphthalene	50.0	56.6		ug/Kg		113	60 - 147	0	20
N-Propylbenzene	50.0	49.4		ug/Kg		99	70 - 130	1	20
Styrene	50.0	52.9		ug/Kg		106	70 - 130	2	20
1,1,1,2-Tetrachloroethane	50.0	54.3		ug/Kg		109	70 - 130	1	20
1,1,1,2,2-Tetrachloroethane	50.0	51.3		ug/Kg		103	70 - 146	1	20
Tetrachloroethene	50.0	49.3		ug/Kg		99	70 - 132	2	20
Toluene	50.0	46.1		ug/Kg		92	75 - 120	2	20
1,2,3-Trichlorobenzene	50.0	51.4		ug/Kg		103	60 - 140	0	20
1,2,4-Trichlorobenzene	50.0	53.2		ug/Kg		106	60 - 140	2	20
1,1,1-Trichloroethane	50.0	49.2		ug/Kg		98	70 - 130	1	20
1,1,2-Trichloroethane	50.0	48.6		ug/Kg		97	70 - 130	1	20
Trichloroethene	50.0	49.4		ug/Kg		99	70 - 133	1	20
Trichlorofluoromethane	50.0	47.0		ug/Kg		94	60 - 140	1	20
1,2,3-Trichloropropane	50.0	51.3		ug/Kg		103	70 - 146	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.7		ug/Kg		91	60 - 140	1	20
1,2,4-Trimethylbenzene	50.0	50.4		ug/Kg		101	70 - 130	1	20
1,3,5-Trimethylbenzene	50.0	50.2		ug/Kg		100	70 - 131	0	20
Vinyl acetate	50.0	62.8		ug/Kg		126	38 - 176	1	20
Vinyl chloride	50.0	43.5		ug/Kg		87	58 - 125	6	20
m-Xylene & p-Xylene	50.0	50.2		ug/Kg		100	70 - 146	1	20
o-Xylene	50.0	48.6		ug/Kg		97	70 - 140	2	20
2,2-Dichloropropane	50.0	51.4		ug/Kg		103	70 - 162	1	20

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 720-193023/7**  
**Matrix: Solid**  
**Analysis Batch: 193023**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

<i>Surrogate</i>	<i>LCS D %Recovery</i>	<i>LCS D Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene	100		45 - 131
1,2-Dichloroethane-d4 (Surr)	98		60 - 140
Toluene-d8 (Surr)	101		58 - 140

**Lab Sample ID: LCSD 720-193023/9**  
**Matrix: Solid**  
**Analysis Batch: 193023**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS D Result</i>	<i>LCS D Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
Gasoline Range Organics (GRO) -C5-C12	1000	1010		ug/Kg		101	61 - 128	5	20

<i>Surrogate</i>	<i>LCS D %Recovery</i>	<i>LCS D Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene	101		45 - 131
1,2-Dichloroethane-d4 (Surr)	98		60 - 140
Toluene-d8 (Surr)	98		58 - 140

**Lab Sample ID: MB 720-193111/4**  
**Matrix: Solid**  
**Analysis Batch: 193111**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

<i>Analyte</i>	<i>MB Result</i>	<i>MB Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Methyl tert-butyl ether	ND		5.0		ug/Kg			11/24/15 09:13	1
Acetone	ND		50		ug/Kg			11/24/15 09:13	1
Benzene	ND		5.0		ug/Kg			11/24/15 09:13	1
Dichlorobromomethane	ND		5.0		ug/Kg			11/24/15 09:13	1
Bromobenzene	ND		5.0		ug/Kg			11/24/15 09:13	1
Chlorobromomethane	ND		20		ug/Kg			11/24/15 09:13	1
Bromoform	ND		5.0		ug/Kg			11/24/15 09:13	1
Bromomethane	ND		10		ug/Kg			11/24/15 09:13	1
2-Butanone (MEK)	ND		50		ug/Kg			11/24/15 09:13	1
n-Butylbenzene	ND		5.0		ug/Kg			11/24/15 09:13	1
sec-Butylbenzene	ND		5.0		ug/Kg			11/24/15 09:13	1
tert-Butylbenzene	ND		5.0		ug/Kg			11/24/15 09:13	1
Carbon disulfide	ND		5.0		ug/Kg			11/24/15 09:13	1
Carbon tetrachloride	ND		5.0		ug/Kg			11/24/15 09:13	1
Chlorobenzene	ND		5.0		ug/Kg			11/24/15 09:13	1
Chloroethane	ND		10		ug/Kg			11/24/15 09:13	1
Chloroform	ND		5.0		ug/Kg			11/24/15 09:13	1
Chloromethane	ND		10		ug/Kg			11/24/15 09:13	1
2-Chlorotoluene	ND		5.0		ug/Kg			11/24/15 09:13	1
4-Chlorotoluene	ND		5.0		ug/Kg			11/24/15 09:13	1
Chlorodibromomethane	ND		5.0		ug/Kg			11/24/15 09:13	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			11/24/15 09:13	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			11/24/15 09:13	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			11/24/15 09:13	1
1,3-Dichloropropane	ND		5.0		ug/Kg			11/24/15 09:13	1
1,1-Dichloropropene	ND		5.0		ug/Kg			11/24/15 09:13	1

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# QC Sample Results

Client: Ninyo & Moore  
 Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 720-193111/4**  
**Matrix: Solid**  
**Analysis Batch: 193111**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg			11/24/15 09:13	1
Ethylene Dibromide	ND		5.0		ug/Kg			11/24/15 09:13	1
Dibromomethane	ND		10		ug/Kg			11/24/15 09:13	1
Dichlorodifluoromethane	ND		10		ug/Kg			11/24/15 09:13	1
1,1-Dichloroethane	ND		5.0		ug/Kg			11/24/15 09:13	1
1,2-Dichloroethane	ND		5.0		ug/Kg			11/24/15 09:13	1
1,1-Dichloroethene	ND		5.0		ug/Kg			11/24/15 09:13	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			11/24/15 09:13	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			11/24/15 09:13	1
1,2-Dichloropropane	ND		5.0		ug/Kg			11/24/15 09:13	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			11/24/15 09:13	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			11/24/15 09:13	1
Ethylbenzene	ND		5.0		ug/Kg			11/24/15 09:13	1
Hexachlorobutadiene	ND		5.0		ug/Kg			11/24/15 09:13	1
2-Hexanone	ND		50		ug/Kg			11/24/15 09:13	1
Isopropylbenzene	ND		5.0		ug/Kg			11/24/15 09:13	1
4-Isopropyltoluene	ND		5.0		ug/Kg			11/24/15 09:13	1
Methylene Chloride	ND		10		ug/Kg			11/24/15 09:13	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			11/24/15 09:13	1
Naphthalene	ND		10		ug/Kg			11/24/15 09:13	1
N-Propylbenzene	ND		5.0		ug/Kg			11/24/15 09:13	1
Styrene	ND		5.0		ug/Kg			11/24/15 09:13	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			11/24/15 09:13	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			11/24/15 09:13	1
Tetrachloroethene	ND		5.0		ug/Kg			11/24/15 09:13	1
Toluene	ND		5.0		ug/Kg			11/24/15 09:13	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			11/24/15 09:13	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			11/24/15 09:13	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			11/24/15 09:13	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			11/24/15 09:13	1
Trichloroethene	ND		5.0		ug/Kg			11/24/15 09:13	1
Trichlorofluoromethane	ND		5.0		ug/Kg			11/24/15 09:13	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			11/24/15 09:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			11/24/15 09:13	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			11/24/15 09:13	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			11/24/15 09:13	1
Vinyl acetate	ND		20		ug/Kg			11/24/15 09:13	1
Vinyl chloride	ND		5.0		ug/Kg			11/24/15 09:13	1
Xylenes, Total	ND		10		ug/Kg			11/24/15 09:13	1
2,2-Dichloropropane	ND		5.0		ug/Kg			11/24/15 09:13	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			11/24/15 09:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		45 - 131		11/24/15 09:13	1
1,2-Dichloroethane-d4 (Surr)	99		60 - 140		11/24/15 09:13	1
Toluene-d8 (Surr)	95		58 - 140		11/24/15 09:13	1

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-193111/5

Matrix: Solid

Analysis Batch: 193111

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	55.6		ug/Kg		111	70 - 144
Acetone	250	283		ug/Kg		113	30 - 162
Benzene	50.0	51.1		ug/Kg		102	70 - 130
Dichlorobromomethane	50.0	55.1		ug/Kg		110	70 - 140
Bromobenzene	50.0	50.3		ug/Kg		101	70 - 130
Chlorobromomethane	50.0	55.7		ug/Kg		111	70 - 130
Bromoform	50.0	60.3		ug/Kg		121	59 - 158
Bromomethane	50.0	57.6		ug/Kg		115	59 - 132
2-Butanone (MEK)	250	267		ug/Kg		107	53 - 133
n-Butylbenzene	50.0	51.2		ug/Kg		102	70 - 142
sec-Butylbenzene	50.0	50.7		ug/Kg		101	70 - 136
tert-Butylbenzene	50.0	50.5		ug/Kg		101	70 - 130
Carbon disulfide	50.0	48.4		ug/Kg		97	60 - 140
Carbon tetrachloride	50.0	52.0		ug/Kg		104	70 - 142
Chlorobenzene	50.0	52.9		ug/Kg		106	70 - 130
Chloroethane	50.0	54.8		ug/Kg		110	65 - 130
Chloroform	50.0	52.3		ug/Kg		105	77 - 127
Chloromethane	50.0	56.2		ug/Kg		112	55 - 140
2-Chlorotoluene	50.0	49.1		ug/Kg		98	70 - 138
4-Chlorotoluene	50.0	49.2		ug/Kg		98	70 - 136
Chlorodibromomethane	50.0	58.3		ug/Kg		117	70 - 146
1,2-Dichlorobenzene	50.0	51.1		ug/Kg		102	70 - 130
1,3-Dichlorobenzene	50.0	50.8		ug/Kg		102	70 - 131
1,4-Dichlorobenzene	50.0	52.3		ug/Kg		105	70 - 130
1,3-Dichloropropane	50.0	54.5		ug/Kg		109	70 - 140
1,1-Dichloropropene	50.0	50.6		ug/Kg		101	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	54.7		ug/Kg		109	60 - 145
Ethylene Dibromide	50.0	54.6		ug/Kg		109	70 - 140
Dibromomethane	50.0	54.6		ug/Kg		109	70 - 139
Dichlorodifluoromethane	50.0	51.7		ug/Kg		103	37 - 158
1,1-Dichloroethane	50.0	51.9		ug/Kg		104	70 - 130
1,2-Dichloroethane	50.0	51.6		ug/Kg		103	70 - 130
1,1-Dichloroethene	50.0	46.7		ug/Kg		93	74 - 122
cis-1,2-Dichloroethene	50.0	52.6		ug/Kg		105	70 - 138
trans-1,2-Dichloroethene	50.0	50.9		ug/Kg		102	67 - 130
1,2-Dichloropropane	50.0	52.9		ug/Kg		106	73 - 127
cis-1,3-Dichloropropene	50.0	54.5		ug/Kg		109	68 - 147
trans-1,3-Dichloropropene	50.0	58.2		ug/Kg		116	70 - 155
Ethylbenzene	50.0	52.1		ug/Kg		104	80 - 137
Hexachlorobutadiene	50.0	47.1		ug/Kg		94	70 - 132
2-Hexanone	250	270		ug/Kg		108	44 - 133
Isopropylbenzene	50.0	52.8		ug/Kg		106	70 - 130
4-Isopropyltoluene	50.0	52.1		ug/Kg		104	70 - 133
Methylene Chloride	50.0	51.4		ug/Kg		103	70 - 134
4-Methyl-2-pentanone (MIBK)	250	262		ug/Kg		105	60 - 160
Naphthalene	50.0	51.6		ug/Kg		103	60 - 147
N-Propylbenzene	50.0	51.9		ug/Kg		104	70 - 130
Styrene	50.0	52.5		ug/Kg		105	70 - 130

TestAmerica Pleasanton

# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 720-193111/5**  
**Matrix: Solid**  
**Analysis Batch: 193111**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	53.7		ug/Kg		107	70 - 130
1,1,2,2-Tetrachloroethane	50.0	52.7		ug/Kg		105	70 - 146
Tetrachloroethene	50.0	51.8		ug/Kg		104	70 - 132
Toluene	50.0	49.9		ug/Kg		100	75 - 120
1,2,3-Trichlorobenzene	50.0	52.1		ug/Kg		104	60 - 140
1,2,4-Trichlorobenzene	50.0	51.5		ug/Kg		103	60 - 140
1,1,1-Trichloroethane	50.0	51.4		ug/Kg		103	70 - 130
1,1,2-Trichloroethane	50.0	54.8		ug/Kg		110	70 - 130
Trichloroethene	50.0	53.8		ug/Kg		108	70 - 133
Trichlorofluoromethane	50.0	52.3		ug/Kg		105	60 - 140
1,2,3-Trichloropropane	50.0	53.2		ug/Kg		106	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.5		ug/Kg		99	60 - 140
1,2,4-Trimethylbenzene	50.0	52.2		ug/Kg		104	70 - 130
1,3,5-Trimethylbenzene	50.0	50.5		ug/Kg		101	70 - 131
Vinyl acetate	50.0	53.3		ug/Kg		107	38 - 176
Vinyl chloride	50.0	61.7		ug/Kg		123	58 - 125
m-Xylene & p-Xylene	50.0	51.0		ug/Kg		102	70 - 146
o-Xylene	50.0	51.9		ug/Kg		104	70 - 140
2,2-Dichloropropane	50.0	50.0		ug/Kg		100	70 - 162

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	96		45 - 131
1,2-Dichloroethane-d4 (Surr)	96		60 - 140
Toluene-d8 (Surr)	96		58 - 140

**Lab Sample ID: LCS 720-193111/7**  
**Matrix: Solid**  
**Analysis Batch: 193111**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1060		ug/Kg		106	61 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	96		45 - 131
1,2-Dichloroethane-d4 (Surr)	102		60 - 140
Toluene-d8 (Surr)	100		58 - 140

**Lab Sample ID: LCSD 720-193111/6**  
**Matrix: Solid**  
**Analysis Batch: 193111**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	61.8		ug/Kg		124	70 - 144	11	20
Acetone	250	331		ug/Kg		132	30 - 162	16	30
Benzene	50.0	54.8		ug/Kg		110	70 - 130	7	20
Dichlorobromomethane	50.0	60.1		ug/Kg		120	70 - 140	9	20

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-193111/6

Matrix: Solid

Analysis Batch: 193111

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromobenzene	50.0	52.8		ug/Kg		106	70 - 130	5	20
Chlorobromomethane	50.0	59.8		ug/Kg		120	70 - 130	7	20
Bromoform	50.0	65.8		ug/Kg		132	59 - 158	9	20
Bromomethane	50.0	59.0		ug/Kg		118	59 - 132	2	20
2-Butanone (MEK)	250	288		ug/Kg		115	53 - 133	8	20
n-Butylbenzene	50.0	52.8		ug/Kg		106	70 - 142	3	20
sec-Butylbenzene	50.0	52.1		ug/Kg		104	70 - 136	3	20
tert-Butylbenzene	50.0	51.3		ug/Kg		103	70 - 130	2	20
Carbon disulfide	50.0	51.2		ug/Kg		102	60 - 140	6	20
Carbon tetrachloride	50.0	54.1		ug/Kg		108	70 - 142	4	20
Chlorobenzene	50.0	55.9		ug/Kg		112	70 - 130	5	20
Chloroethane	50.0	56.3		ug/Kg		113	65 - 130	3	20
Chloroform	50.0	56.0		ug/Kg		112	77 - 127	7	20
Chloromethane	50.0	56.7		ug/Kg		113	55 - 140	1	20
2-Chlorotoluene	50.0	51.3		ug/Kg		103	70 - 138	4	20
4-Chlorotoluene	50.0	51.6		ug/Kg		103	70 - 136	5	20
Chlorodibromomethane	50.0	64.8		ug/Kg		130	70 - 146	11	20
1,2-Dichlorobenzene	50.0	54.4		ug/Kg		109	70 - 130	6	20
1,3-Dichlorobenzene	50.0	53.4		ug/Kg		107	70 - 131	5	20
1,4-Dichlorobenzene	50.0	54.9		ug/Kg		110	70 - 130	5	20
1,3-Dichloropropane	50.0	60.2		ug/Kg		120	70 - 140	10	20
1,1-Dichloropropene	50.0	53.2		ug/Kg		106	70 - 130	5	20
1,2-Dibromo-3-Chloropropane	50.0	58.7		ug/Kg		117	60 - 145	7	20
Ethylene Dibromide	50.0	60.7		ug/Kg		121	70 - 140	11	20
Dibromomethane	50.0	59.4		ug/Kg		119	70 - 139	9	20
Dichlorodifluoromethane	50.0	50.5		ug/Kg		101	37 - 158	2	20
1,1-Dichloroethane	50.0	56.2		ug/Kg		112	70 - 130	8	20
1,2-Dichloroethane	50.0	56.5		ug/Kg		113	70 - 130	9	20
1,1-Dichloroethene	50.0	49.2		ug/Kg		98	74 - 122	5	20
cis-1,2-Dichloroethene	50.0	57.0		ug/Kg		114	70 - 138	8	20
trans-1,2-Dichloroethene	50.0	54.9		ug/Kg		110	67 - 130	8	20
1,2-Dichloropropane	50.0	57.3		ug/Kg		115	73 - 127	8	20
cis-1,3-Dichloropropene	50.0	60.1		ug/Kg		120	68 - 147	10	20
trans-1,3-Dichloropropene	50.0	64.0		ug/Kg		128	70 - 155	10	20
Ethylbenzene	50.0	54.4		ug/Kg		109	80 - 137	4	20
Hexachlorobutadiene	50.0	47.2		ug/Kg		94	70 - 132	0	20
2-Hexanone	250	292		ug/Kg		117	44 - 133	8	20
Isopropylbenzene	50.0	55.1		ug/Kg		110	70 - 130	4	20
4-Isopropyltoluene	50.0	53.6		ug/Kg		107	70 - 133	3	20
Methylene Chloride	50.0	56.2		ug/Kg		112	70 - 134	9	20
4-Methyl-2-pentanone (MIBK)	250	286		ug/Kg		115	60 - 160	9	20
Naphthalene	50.0	55.0		ug/Kg		110	60 - 147	6	20
N-Propylbenzene	50.0	53.8		ug/Kg		108	70 - 130	4	20
Styrene	50.0	56.4		ug/Kg		113	70 - 130	7	20
1,1,1,2-Tetrachloroethane	50.0	56.8		ug/Kg		114	70 - 130	6	20
1,1,1,2,2-Tetrachloroethane	50.0	56.2		ug/Kg		112	70 - 146	6	20
Tetrachloroethene	50.0	54.6		ug/Kg		109	70 - 132	5	20
Toluene	50.0	52.1		ug/Kg		104	75 - 120	4	20

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 720-193111/6**  
**Matrix: Solid**  
**Analysis Batch: 193111**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichlorobenzene	50.0	56.1		ug/Kg		112	60 - 140	7	20
1,2,4-Trichlorobenzene	50.0	54.4		ug/Kg		109	60 - 140	5	20
1,1,1-Trichloroethane	50.0	54.5		ug/Kg		109	70 - 130	6	20
1,1,2-Trichloroethane	50.0	62.8		ug/Kg		126	70 - 130	13	20
Trichloroethene	50.0	56.4		ug/Kg		113	70 - 133	5	20
Trichlorofluoromethane	50.0	53.2		ug/Kg		106	60 - 140	2	20
1,2,3-Trichloropropane	50.0	56.7		ug/Kg		113	70 - 146	6	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.1		ug/Kg		106	60 - 140	7	20
1,2,4-Trimethylbenzene	50.0	54.4		ug/Kg		109	70 - 130	4	20
1,3,5-Trimethylbenzene	50.0	52.4		ug/Kg		105	70 - 131	4	20
Vinyl acetate	50.0	55.7		ug/Kg		111	38 - 176	4	20
Vinyl chloride	50.0	61.2		ug/Kg		122	58 - 125	1	20
m-Xylene & p-Xylene	50.0	53.3		ug/Kg		107	70 - 146	4	20
o-Xylene	50.0	55.2		ug/Kg		110	70 - 140	6	20
2,2-Dichloropropane	50.0	53.3		ug/Kg		107	70 - 162	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene	98		45 - 131
1,2-Dichloroethane-d4 (Surr)	95		60 - 140
Toluene-d8 (Surr)	97		58 - 140

**Lab Sample ID: LCSD 720-193111/8**  
**Matrix: Solid**  
**Analysis Batch: 193111**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	1000	1030		ug/Kg		103	61 - 128	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene	98		45 - 131
1,2-Dichloroethane-d4 (Surr)	100		60 - 140
Toluene-d8 (Surr)	98		58 - 140

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS

**Lab Sample ID: MB 720-193083/5**  
**Matrix: Water**  
**Analysis Batch: 193083**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			11/23/15 19:55	1
Acetone	ND		50		ug/L			11/23/15 19:55	1
Benzene	ND		0.50		ug/L			11/23/15 19:55	1
Dichlorobromomethane	ND		0.50		ug/L			11/23/15 19:55	1
Bromobenzene	ND		1.0		ug/L			11/23/15 19:55	1
Chlorobromomethane	ND		1.0		ug/L			11/23/15 19:55	1

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# QC Sample Results

Client: Ninyo & Moore  
 Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: MB 720-193083/5**  
**Matrix: Water**  
**Analysis Batch: 193083**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		1.0		ug/L			11/23/15 19:55	1
Bromomethane	ND		1.0		ug/L			11/23/15 19:55	1
2-Butanone (MEK)	ND		50		ug/L			11/23/15 19:55	1
n-Butylbenzene	ND		1.0		ug/L			11/23/15 19:55	1
sec-Butylbenzene	ND		1.0		ug/L			11/23/15 19:55	1
tert-Butylbenzene	ND		1.0		ug/L			11/23/15 19:55	1
Carbon disulfide	ND		5.0		ug/L			11/23/15 19:55	1
Carbon tetrachloride	ND		0.50		ug/L			11/23/15 19:55	1
Chlorobenzene	ND		0.50		ug/L			11/23/15 19:55	1
Chloroethane	ND		1.0		ug/L			11/23/15 19:55	1
Chloroform	ND		1.0		ug/L			11/23/15 19:55	1
Chloromethane	ND		1.0		ug/L			11/23/15 19:55	1
2-Chlorotoluene	ND		0.50		ug/L			11/23/15 19:55	1
4-Chlorotoluene	ND		0.50		ug/L			11/23/15 19:55	1
Chlorodibromomethane	ND		0.50		ug/L			11/23/15 19:55	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/23/15 19:55	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/23/15 19:55	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/23/15 19:55	1
1,3-Dichloropropane	ND		1.0		ug/L			11/23/15 19:55	1
1,1-Dichloropropene	ND		0.50		ug/L			11/23/15 19:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/23/15 19:55	1
Ethylene Dibromide	ND		0.50		ug/L			11/23/15 19:55	1
Dibromomethane	ND		0.50		ug/L			11/23/15 19:55	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/23/15 19:55	1
1,1-Dichloroethane	ND		0.50		ug/L			11/23/15 19:55	1
1,2-Dichloroethane	ND		0.50		ug/L			11/23/15 19:55	1
1,1-Dichloroethene	ND		0.50		ug/L			11/23/15 19:55	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/23/15 19:55	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/23/15 19:55	1
1,2-Dichloropropane	ND		0.50		ug/L			11/23/15 19:55	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/23/15 19:55	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/23/15 19:55	1
Ethylbenzene	ND		0.50		ug/L			11/23/15 19:55	1
Hexachlorobutadiene	ND		1.0		ug/L			11/23/15 19:55	1
2-Hexanone	ND		50		ug/L			11/23/15 19:55	1
Isopropylbenzene	ND		0.50		ug/L			11/23/15 19:55	1
4-Isopropyltoluene	ND		1.0		ug/L			11/23/15 19:55	1
Methylene Chloride	ND		5.0		ug/L			11/23/15 19:55	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			11/23/15 19:55	1
Naphthalene	ND		1.0		ug/L			11/23/15 19:55	1
N-Propylbenzene	ND		1.0		ug/L			11/23/15 19:55	1
Styrene	ND		0.50		ug/L			11/23/15 19:55	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			11/23/15 19:55	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			11/23/15 19:55	1
Tetrachloroethene	ND		0.50		ug/L			11/23/15 19:55	1
Toluene	ND		0.50		ug/L			11/23/15 19:55	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/23/15 19:55	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/23/15 19:55	1

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: MB 720-193083/5**  
**Matrix: Water**  
**Analysis Batch: 193083**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50		ug/L			11/23/15 19:55	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/23/15 19:55	1
Trichloroethene	ND		0.50		ug/L			11/23/15 19:55	1
Trichlorofluoromethane	ND		1.0		ug/L			11/23/15 19:55	1
1,2,3-Trichloropropane	ND		0.50		ug/L			11/23/15 19:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/23/15 19:55	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			11/23/15 19:55	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			11/23/15 19:55	1
Vinyl acetate	ND		10		ug/L			11/23/15 19:55	1
Vinyl chloride	ND		0.50		ug/L			11/23/15 19:55	1
Xylenes, Total	ND		1.0		ug/L			11/23/15 19:55	1
2,2-Dichloropropane	ND		0.50		ug/L			11/23/15 19:55	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			11/23/15 19:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	85		67 - 130		11/23/15 19:55	1
1,2-Dichloroethane-d4 (Surr)	78		72 - 130		11/23/15 19:55	1
Toluene-d8 (Surr)	84		70 - 130		11/23/15 19:55	1

**Lab Sample ID: LCS 720-193083/6**  
**Matrix: Water**  
**Analysis Batch: 193083**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	22.4		ug/L		90	62 - 130
Acetone	125	118		ug/L		95	26 - 180
Benzene	25.0	23.9		ug/L		95	79 - 130
Dichlorobromomethane	25.0	22.7		ug/L		91	70 - 130
Bromobenzene	25.0	24.7		ug/L		99	70 - 130
Chlorobromomethane	25.0	22.6		ug/L		90	70 - 130
Bromoform	25.0	24.5		ug/L		98	68 - 136
Bromomethane	25.0	24.9		ug/L		100	43 - 151
2-Butanone (MEK)	125	138		ug/L		110	54 - 130
n-Butylbenzene	25.0	24.3		ug/L		97	70 - 142
sec-Butylbenzene	25.0	24.3		ug/L		97	70 - 134
tert-Butylbenzene	25.0	24.2		ug/L		97	70 - 135
Carbon disulfide	25.0	25.3		ug/L		101	58 - 130
Carbon tetrachloride	25.0	21.8		ug/L		87	70 - 146
Chlorobenzene	25.0	22.6		ug/L		90	70 - 130
Chloroethane	25.0	24.2		ug/L		97	62 - 138
Chloroform	25.0	23.2		ug/L		93	70 - 130
Chloromethane	25.0	25.4		ug/L		102	52 - 175
2-Chlorotoluene	25.0	23.8		ug/L		95	70 - 130
4-Chlorotoluene	25.0	23.6		ug/L		94	70 - 130
Chlorodibromomethane	25.0	22.3		ug/L		89	70 - 145
1,2-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130
1,3-Dichlorobenzene	25.0	22.5		ug/L		90	70 - 130

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: LCS 720-193083/6**

**Matrix: Water**

**Analysis Batch: 193083**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	25.0	23.4		ug/L		94	70 - 130
1,3-Dichloropropane	25.0	22.9		ug/L		91	70 - 130
1,1-Dichloropropene	25.0	23.6		ug/L		94	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.1		ug/L		96	70 - 136
Ethylene Dibromide	25.0	22.0		ug/L		88	70 - 130
Dibromomethane	25.0	22.9		ug/L		92	70 - 130
Dichlorodifluoromethane	25.0	35.4	*	ug/L		142	34 - 132
1,1-Dichloroethane	25.0	24.6		ug/L		98	70 - 130
1,2-Dichloroethane	25.0	23.8		ug/L		95	61 - 132
1,1-Dichloroethene	25.0	23.9		ug/L		96	64 - 128
cis-1,2-Dichloroethene	25.0	24.2		ug/L		97	70 - 130
trans-1,2-Dichloroethene	25.0	25.2		ug/L		101	68 - 130
1,2-Dichloropropane	25.0	25.2		ug/L		101	70 - 130
cis-1,3-Dichloropropene	25.0	24.1		ug/L		96	70 - 130
trans-1,3-Dichloropropene	25.0	21.3		ug/L		85	70 - 140
Ethylbenzene	25.0	23.0		ug/L		92	80 - 120
Hexachlorobutadiene	25.0	22.9		ug/L		92	70 - 130
2-Hexanone	125	123		ug/L		98	60 - 164
Isopropylbenzene	25.0	23.8		ug/L		95	70 - 130
4-Isopropyltoluene	25.0	24.3		ug/L		97	70 - 130
Methylene Chloride	25.0	22.6		ug/L		91	70 - 147
4-Methyl-2-pentanone (MIBK)	125	122		ug/L		98	58 - 130
Naphthalene	25.0	25.1		ug/L		101	70 - 130
N-Propylbenzene	25.0	24.9		ug/L		100	70 - 130
Styrene	25.0	23.3		ug/L		93	70 - 130
1,1,1,2-Tetrachloroethane	25.0	22.3		ug/L		89	70 - 130
1,1,1,2,2-Tetrachloroethane	25.0	26.6		ug/L		106	70 - 130
Tetrachloroethene	25.0	23.2		ug/L		93	70 - 130
Toluene	25.0	22.5		ug/L		90	78 - 120
1,2,3-Trichlorobenzene	25.0	22.8		ug/L		91	70 - 130
1,2,4-Trichlorobenzene	25.0	22.3		ug/L		89	70 - 130
1,1,1-Trichloroethane	25.0	22.3		ug/L		89	70 - 130
1,1,2-Trichloroethane	25.0	22.0		ug/L		88	70 - 130
Trichloroethene	25.0	24.9		ug/L		100	70 - 130
Trichlorofluoromethane	25.0	22.5		ug/L		90	66 - 132
1,2,3-Trichloropropane	25.0	25.2		ug/L		101	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.2		ug/L		97	42 - 162
1,2,4-Trimethylbenzene	25.0	24.0		ug/L		96	70 - 132
1,3,5-Trimethylbenzene	25.0	24.1		ug/L		96	70 - 130
Vinyl acetate	25.0	27.2		ug/L		109	43 - 163
Vinyl chloride	25.0	25.0		ug/L		100	54 - 135
m-Xylene & p-Xylene	25.0	22.7		ug/L		91	70 - 142
o-Xylene	25.0	22.8		ug/L		91	70 - 130
2,2-Dichloropropane	25.0	21.8		ug/L		87	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	92		67 - 130

TestAmerica Pleasanton

# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: LCS 720-193083/6**  
**Matrix: Water**  
**Analysis Batch: 193083**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	74		72 - 130
Toluene-d8 (Surr)	87		70 - 130

**Lab Sample ID: LCS 720-193083/8**  
**Matrix: Water**  
**Analysis Batch: 193083**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	513		ug/L		103	62 - 120

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	94		67 - 130
1,2-Dichloroethane-d4 (Surr)	80		72 - 130
Toluene-d8 (Surr)	88		70 - 130

**Lab Sample ID: LCSD 720-193083/7**  
**Matrix: Water**  
**Analysis Batch: 193083**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	23.2		ug/L		93	62 - 130	4	20
Acetone	125	125		ug/L		100	26 - 180	5	30
Benzene	25.0	24.0		ug/L		96	79 - 130	1	20
Dichlorobromomethane	25.0	22.6		ug/L		91	70 - 130	0	20
Bromobenzene	25.0	24.8		ug/L		99	70 - 130	0	20
Chlorobromomethane	25.0	23.0		ug/L		92	70 - 130	2	20
Bromoform	25.0	25.3		ug/L		101	68 - 136	3	20
Bromomethane	25.0	25.3		ug/L		101	43 - 151	1	20
2-Butanone (MEK)	125	146		ug/L		117	54 - 130	6	20
n-Butylbenzene	25.0	24.3		ug/L		97	70 - 142	0	20
sec-Butylbenzene	25.0	24.8		ug/L		99	70 - 134	2	20
tert-Butylbenzene	25.0	24.5		ug/L		98	70 - 135	1	20
Carbon disulfide	25.0	25.0		ug/L		100	58 - 130	1	20
Carbon tetrachloride	25.0	21.9		ug/L		88	70 - 146	0	20
Chlorobenzene	25.0	22.6		ug/L		91	70 - 130	0	20
Chloroethane	25.0	23.5		ug/L		94	62 - 138	3	20
Chloroform	25.0	23.2		ug/L		93	70 - 130	0	20
Chloromethane	25.0	25.4		ug/L		102	52 - 175	0	20
2-Chlorotoluene	25.0	24.3		ug/L		97	70 - 130	2	20
4-Chlorotoluene	25.0	24.3		ug/L		97	70 - 130	3	20
Chlorodibromomethane	25.0	22.5		ug/L		90	70 - 145	1	20
1,2-Dichlorobenzene	25.0	23.7		ug/L		95	70 - 130	2	20
1,3-Dichlorobenzene	25.0	22.6		ug/L		91	70 - 130	1	20
1,4-Dichlorobenzene	25.0	23.3		ug/L		93	70 - 130	0	20
1,3-Dichloropropane	25.0	23.8		ug/L		95	70 - 130	4	20
1,1-Dichloropropene	25.0	23.7		ug/L		95	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	25.8		ug/L		103	70 - 136	7	20

TestAmerica Pleasanton

# QC Sample Results

Client: Ninyo & Moore  
 Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: LCSD 720-193083/7**  
**Matrix: Water**  
**Analysis Batch: 193083**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide	25.0	22.2		ug/L		89	70 - 130	1	20
Dibromomethane	25.0	23.2		ug/L		93	70 - 130	1	20
Dichlorodifluoromethane	25.0	34.9	*	ug/L		140	34 - 132	1	20
1,1-Dichloroethane	25.0	24.6		ug/L		98	70 - 130	0	20
1,2-Dichloroethane	25.0	24.4		ug/L		97	61 - 132	2	20
1,1-Dichloroethene	25.0	24.1		ug/L		96	64 - 128	0	20
cis-1,2-Dichloroethene	25.0	24.5		ug/L		98	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	25.8		ug/L		103	68 - 130	2	20
1,2-Dichloropropane	25.0	25.3		ug/L		101	70 - 130	0	20
cis-1,3-Dichloropropene	25.0	24.3		ug/L		97	70 - 130	1	20
trans-1,3-Dichloropropene	25.0	21.4		ug/L		86	70 - 140	1	20
Ethylbenzene	25.0	23.0		ug/L		92	80 - 120	0	20
Hexachlorobutadiene	25.0	23.8		ug/L		95	70 - 130	4	20
2-Hexanone	125	123		ug/L		98	60 - 164	0	20
Isopropylbenzene	25.0	23.8		ug/L		95	70 - 130	0	20
4-Isopropyltoluene	25.0	24.2		ug/L		97	70 - 130	1	20
Methylene Chloride	25.0	22.9		ug/L		92	70 - 147	1	20
4-Methyl-2-pentanone (MIBK)	125	130		ug/L		104	58 - 130	6	20
Naphthalene	25.0	26.4		ug/L		106	70 - 130	5	20
N-Propylbenzene	25.0	24.7		ug/L		99	70 - 130	1	20
Styrene	25.0	23.4		ug/L		94	70 - 130	0	20
1,1,1,2-Tetrachloroethane	25.0	22.6		ug/L		91	70 - 130	1	20
1,1,2,2-Tetrachloroethane	25.0	27.4		ug/L		109	70 - 130	3	20
Tetrachloroethene	25.0	22.9		ug/L		92	70 - 130	1	20
Toluene	25.0	22.8		ug/L		91	78 - 120	1	20
1,2,3-Trichlorobenzene	25.0	23.8		ug/L		95	70 - 130	4	20
1,2,4-Trichlorobenzene	25.0	23.1		ug/L		92	70 - 130	4	20
1,1,1-Trichloroethane	25.0	22.6		ug/L		90	70 - 130	1	20
1,1,2-Trichloroethane	25.0	22.2		ug/L		89	70 - 130	1	20
Trichloroethene	25.0	25.1		ug/L		101	70 - 130	1	20
Trichlorofluoromethane	25.0	22.3		ug/L		89	66 - 132	1	20
1,2,3-Trichloropropane	25.0	26.1		ug/L		104	70 - 130	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.9		ug/L		95	42 - 162	1	20
1,2,4-Trimethylbenzene	25.0	24.1		ug/L		96	70 - 132	0	20
1,3,5-Trimethylbenzene	25.0	24.4		ug/L		98	70 - 130	1	20
Vinyl acetate	25.0	28.7		ug/L		115	43 - 163	5	20
Vinyl chloride	25.0	25.0		ug/L		100	54 - 135	0	20
m-Xylene & p-Xylene	25.0	22.7		ug/L		91	70 - 142	0	20
o-Xylene	25.0	23.0		ug/L		92	70 - 130	1	20
2,2-Dichloropropane	25.0	21.9		ug/L		87	70 - 140	0	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	93		67 - 130
1,2-Dichloroethane-d4 (Surr)	76		72 - 130
Toluene-d8 (Surr)	88		70 - 130

TestAmerica Pleasanton

# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: LCSD 720-193083/9**

**Matrix: Water**

**Analysis Batch: 193083**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	500	502		ug/L		100	62 - 120	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	93		67 - 130
1,2-Dichloroethane-d4 (Surr)	82		72 - 130
Toluene-d8 (Surr)	87		70 - 130

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

**Lab Sample ID: MB 720-193042/1-A**

**Matrix: Solid**

**Analysis Batch: 193155**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 193042**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Bis(2-chloroethyl)ether	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
2-Chlorophenol	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
1,3-Dichlorobenzene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
1,4-Dichlorobenzene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Benzyl alcohol	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
1,2-Dichlorobenzene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
2-Methylphenol	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Methylphenol, 3 & 4	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
N-Nitrosodi-n-propylamine	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Hexachloroethane	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Nitrobenzene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Isophorone	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
2-Nitrophenol	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
2,4-Dimethylphenol	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Bis(2-chloroethoxy)methane	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
2,4-Dichlorophenol	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
1,2,4-Trichlorobenzene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Naphthalene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
4-Chloroaniline	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Hexachlorobutadiene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
4-Chloro-3-methylphenol	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
2-Methylnaphthalene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Hexachlorocyclopentadiene	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
2,4,6-Trichlorophenol	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
2,4,5-Trichlorophenol	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
2-Chloronaphthalene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
2-Nitroaniline	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Dimethyl phthalate	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Acenaphthylene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
3-Nitroaniline	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Acenaphthene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
2,4-Dinitrophenol	ND		0.66		mg/Kg		11/23/15 10:18	11/24/15 15:47	1

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

**Lab Sample ID: MB 720-193042/1-A**  
**Matrix: Solid**  
**Analysis Batch: 193155**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 193042**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Dibenzofuran	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
2,4-Dinitrotoluene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
2,6-Dinitrotoluene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Diethyl phthalate	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
4-Chlorophenyl phenyl ether	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Fluorene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
4-Nitroaniline	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
2-Methyl-4,6-dinitrophenol	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
N-Nitrosodiphenylamine	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
4-Bromophenyl phenyl ether	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Hexachlorobenzene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Pentachlorophenol	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Phenanthrene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Anthracene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Di-n-butyl phthalate	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Fluoranthene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Pyrene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Butyl benzyl phthalate	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
3,3'-Dichlorobenzidine	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Benzo[a]anthracene	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Bis(2-ethylhexyl) phthalate	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Chrysene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Di-n-octyl phthalate	ND		0.17		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Benzo[b]fluoranthene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Benzo[a]pyrene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Benzo[k]fluoranthene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Indeno[1,2,3-cd]pyrene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Benzo[g,h,i]perylene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Benzoic acid	ND		0.33		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Azobenzene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1
Dibenz(a,h)anthracene	ND		0.067		mg/Kg		11/23/15 10:18	11/24/15 15:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	63		21 - 98	11/23/15 10:18	11/24/15 15:47	1
2-Fluorobiphenyl	80		30 - 112	11/23/15 10:18	11/24/15 15:47	1
Terphenyl-d14	106		32 - 117	11/23/15 10:18	11/24/15 15:47	1
2-Fluorophenol	84		28 - 98	11/23/15 10:18	11/24/15 15:47	1
Phenol-d5	75		23 - 101	11/23/15 10:18	11/24/15 15:47	1
2,4,6-Tribromophenol	87		37 - 114	11/23/15 10:18	11/24/15 15:47	1

**Lab Sample ID: LCS 720-193042/2-A**  
**Matrix: Solid**  
**Analysis Batch: 193156**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 193042**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	0.745		mg/Kg		56	48 - 115

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: LCS 720-193042/2-A

Matrix: Solid

Analysis Batch: 193156

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 193042

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Bis(2-chloroethyl)ether	1.33	0.636		mg/Kg		48	45 - 115
2-Chlorophenol	1.33	0.732		mg/Kg		55	48 - 115
1,3-Dichlorobenzene	1.33	0.535	*	mg/Kg		40	41 - 115
1,4-Dichlorobenzene	1.33	0.561		mg/Kg		42	40 - 115
Benzyl alcohol	1.33	0.818		mg/Kg		61	51 - 115
1,2-Dichlorobenzene	1.33	0.583		mg/Kg		44	44 - 115
2-Methylphenol	1.33	0.789		mg/Kg		59	54 - 115
Methylphenol, 3 & 4	1.33	0.842		mg/Kg		63	42 - 115
N-Nitrosodi-n-propylamine	1.33	0.812		mg/Kg		61	46 - 115
Hexachloroethane	1.33	0.575	*	mg/Kg		43	44 - 115
Nitrobenzene	1.33	0.722		mg/Kg		54	48 - 115
Isophorone	1.33	0.863		mg/Kg		65	54 - 115
2-Nitrophenol	1.33	0.759		mg/Kg		57	48 - 115
2,4-Dimethylphenol	1.33	0.871		mg/Kg		65	52 - 115
Bis(2-chloroethoxy)methane	1.33	0.772		mg/Kg		58	46 - 115
2,4-Dichlorophenol	1.33	0.866		mg/Kg		65	49 - 100
1,2,4-Trichlorobenzene	1.33	0.680		mg/Kg		51	47 - 115
Naphthalene	1.33	0.739		mg/Kg		55	44 - 115
4-Chloroaniline	1.33	0.692		mg/Kg		52	30 - 115
Hexachlorobutadiene	1.33	0.649		mg/Kg		49	44 - 115
4-Chloro-3-methylphenol	1.33	1.00		mg/Kg		75	58 - 115
2-Methylnaphthalene	1.33	0.825		mg/Kg		62	49 - 115
Hexachlorocyclopentadiene	1.33	0.573		mg/Kg		43	42 - 132
2,4,6-Trichlorophenol	1.33	1.03		mg/Kg		77	45 - 115
2,4,5-Trichlorophenol	1.33	1.07		mg/Kg		81	48 - 115
2-Chloronaphthalene	1.33	0.934		mg/Kg		70	52 - 115
2-Nitroaniline	1.33	1.08		mg/Kg		81	54 - 115
Dimethyl phthalate	1.33	1.09		mg/Kg		82	64 - 119
Acenaphthylene	1.33	1.00		mg/Kg		75	61 - 129
3-Nitroaniline	1.33	1.07		mg/Kg		81	50 - 115
Acenaphthene	1.33	1.03		mg/Kg		77	50 - 115
2,4-Dinitrophenol	2.67	2.04		mg/Kg		76	15 - 115
4-Nitrophenol	2.67	2.55		mg/Kg		95	54 - 125
Dibenzofuran	1.33	1.01		mg/Kg		76	55 - 115
2,4-Dinitrotoluene	1.33	1.16		mg/Kg		87	57 - 115
2,6-Dinitrotoluene	1.33	1.08		mg/Kg		81	54 - 119
Diethyl phthalate	1.33	1.20		mg/Kg		90	49 - 117
4-Chlorophenyl phenyl ether	1.33	1.08		mg/Kg		81	57 - 115
Fluorene	1.33	1.07		mg/Kg		80	54 - 115
4-Nitroaniline	1.33	1.26		mg/Kg		95	59 - 115
2-Methyl-4,6-dinitrophenol	2.67	2.42		mg/Kg		91	39 - 115
N-Nitrosodiphenylamine	2.28	1.96		mg/Kg		86	56 - 115
4-Bromophenyl phenyl ether	1.33	1.05		mg/Kg		79	53 - 115
Hexachlorobenzene	1.33	1.08		mg/Kg		81	55 - 115
Pentachlorophenol	2.67	2.24		mg/Kg		84	35 - 115
Phenanthrene	1.33	1.15		mg/Kg		86	54 - 115
Anthracene	1.33	1.15		mg/Kg		86	55 - 115

TestAmerica Pleasanton

# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

**Lab Sample ID: LCS 720-193042/2-A**

**Matrix: Solid**

**Analysis Batch: 193156**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 193042**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Di-n-butyl phthalate	1.33	1.21		mg/Kg		91	55 - 115
Fluoranthene	1.33	1.21		mg/Kg		91	52 - 130
Pyrene	1.33	1.17		mg/Kg		88	48 - 115
Butyl benzyl phthalate	1.33	1.21		mg/Kg		91	53 - 115
3,3'-Dichlorobenzidine	1.33	1.16		mg/Kg		87	42 - 115
Benzo[a]anthracene	1.33	1.17		mg/Kg		88	55 - 115
Bis(2-ethylhexyl) phthalate	1.33	1.23		mg/Kg		92	53 - 115
Chrysene	1.33	1.22		mg/Kg		92	58 - 115
Di-n-octyl phthalate	1.33	1.25		mg/Kg		94	53 - 115
Benzo[b]fluoranthene	1.33	1.19		mg/Kg		90	50 - 119
Benzo[a]pyrene	1.33	1.17		mg/Kg		88	57 - 122
Benzo[k]fluoranthene	1.33	1.18		mg/Kg		89	55 - 120
Indeno[1,2,3-cd]pyrene	1.33	1.22		mg/Kg		91	56 - 115
Benzo[g,h,i]perylene	1.33	1.27		mg/Kg		95	56 - 115
Benzoic acid	1.33	0.960		mg/Kg		72	10 - 115
Azobenzene	1.33	1.14		mg/Kg		86	52 - 115
Dibenz(a,h)anthracene	1.33	1.22		mg/Kg		92	57 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	45		21 - 98
2-Fluorobiphenyl	66		30 - 112
Terphenyl-d14	85		32 - 117
2-Fluorophenol	49		28 - 98
Phenol-d5	54		23 - 101
2,4,6-Tribromophenol	88		37 - 114

**Lab Sample ID: 720-68723-10 MS**

**Matrix: Solid**

**Analysis Batch: 193155**

**Client Sample ID: B-2-15**

**Prep Type: Total/NA**

**Prep Batch: 193042**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Phenol	ND		1.32	0.904		mg/Kg		68	35 - 115
Bis(2-chloroethyl)ether	ND		1.32	0.774		mg/Kg		58	33 - 115
2-Chlorophenol	ND		1.32	0.855		mg/Kg		65	39 - 115
1,3-Dichlorobenzene	ND	*	1.32	0.783		mg/Kg		59	35 - 115
1,4-Dichlorobenzene	ND		1.32	0.800		mg/Kg		60	37 - 115
Benzyl alcohol	ND		1.32	0.883		mg/Kg		67	42 - 115
1,2-Dichlorobenzene	ND		1.32	0.797		mg/Kg		60	37 - 115
2-Methylphenol	ND		1.32	0.800		mg/Kg		60	41 - 115
Methylphenol, 3 & 4	ND		1.32	0.897		mg/Kg		68	39 - 115
N-Nitrosodi-n-propylamine	ND		1.32	0.826		mg/Kg		62	40 - 115
Hexachloroethane	ND	*	1.32	0.803		mg/Kg		61	29 - 115
Nitrobenzene	ND		1.32	0.824		mg/Kg		62	42 - 115
Isophorone	ND		1.32	0.798		mg/Kg		60	41 - 115
2-Nitrophenol	ND		1.32	0.852		mg/Kg		64	42 - 116
2,4-Dimethylphenol	ND		1.32	0.835		mg/Kg		63	37 - 115
Bis(2-chloroethoxy)methane	ND		1.32	0.827		mg/Kg		62	38 - 115

TestAmerica Pleasanton

# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: 720-68723-10 MS

Matrix: Solid

Analysis Batch: 193155

Client Sample ID: B-2-15

Prep Type: Total/NA

Prep Batch: 193042

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
2,4-Dichlorophenol	ND		1.32	0.900		mg/Kg		68	46 - 115
1,2,4-Trichlorobenzene	ND		1.32	0.847		mg/Kg		64	41 - 115
Naphthalene	ND		1.32	0.848		mg/Kg		64	40 - 115
4-Chloroaniline	ND		1.32	0.553		mg/Kg		42	32 - 115
Hexachlorobutadiene	ND		1.32	0.865		mg/Kg		65	42 - 115
4-Chloro-3-methylphenol	ND		1.32	0.888		mg/Kg		67	46 - 115
2-Methylnaphthalene	ND		1.32	0.876		mg/Kg		66	41 - 115
Hexachlorocyclopentadiene	ND		1.32	0.697		mg/Kg		53	10 - 125
2,4,6-Trichlorophenol	ND		1.32	0.919		mg/Kg		69	48 - 115
2,4,5-Trichlorophenol	ND		1.32	0.932		mg/Kg		70	49 - 115
2-Chloronaphthalene	ND		1.32	0.927		mg/Kg		70	45 - 115
2-Nitroaniline	ND		1.32	0.895		mg/Kg		68	49 - 115
Dimethyl phthalate	ND		1.32	0.912		mg/Kg		69	47 - 115
Acenaphthylene	ND		1.32	0.905		mg/Kg		68	46 - 115
3-Nitroaniline	ND		1.32	0.722		mg/Kg		55	39 - 115
Acenaphthene	ND		1.32	0.950		mg/Kg		72	45 - 115
2,4-Dinitrophenol	ND		2.65	1.64		mg/Kg		62	10 - 123
4-Nitrophenol	ND		2.65	2.11		mg/Kg		80	37 - 129
Dibenzofuran	ND		1.32	0.907		mg/Kg		69	48 - 115
2,4-Dinitrotoluene	ND		1.32	0.897		mg/Kg		68	48 - 115
2,6-Dinitrotoluene	ND		1.32	0.892		mg/Kg		67	44 - 115
Diethyl phthalate	ND		1.32	0.934		mg/Kg		71	47 - 115
4-Chlorophenyl phenyl ether	ND		1.32	0.976		mg/Kg		74	46 - 115
Fluorene	ND		1.32	0.966		mg/Kg		73	47 - 115
4-Nitroaniline	ND		1.32	1.02		mg/Kg		77	40 - 115
2-Methyl-4,6-dinitrophenol	ND		2.65	1.68		mg/Kg		64	10 - 124
N-Nitrosodiphenylamine	ND		2.27	1.55		mg/Kg		69	44 - 115
4-Bromophenyl phenyl ether	ND		1.32	0.859		mg/Kg		65	46 - 115
Hexachlorobenzene	ND		1.32	0.870		mg/Kg		66	46 - 115
Pentachlorophenol	ND		2.65	1.73		mg/Kg		65	23 - 122
Phenanthrene	ND		1.32	0.985		mg/Kg		74	34 - 120
Anthracene	ND		1.32	0.985		mg/Kg		74	45 - 115
Di-n-butyl phthalate	ND		1.32	0.977		mg/Kg		74	44 - 115
Fluoranthene	ND		1.32	0.961		mg/Kg		73	34 - 116
Pyrene	ND		1.32	0.955		mg/Kg		72	42 - 119
Butyl benzyl phthalate	ND		1.32	0.924		mg/Kg		70	46 - 115
3,3'-Dichlorobenzidine	ND		1.32	0.642		mg/Kg		49	10 - 115
Benzo[a]anthracene	ND		1.32	0.963		mg/Kg		73	43 - 115
Bis(2-ethylhexyl) phthalate	ND		1.32	0.947		mg/Kg		72	46 - 115
Chrysene	ND		1.32	0.936		mg/Kg		71	43 - 115
Di-n-octyl phthalate	ND		1.32	0.900		mg/Kg		68	46 - 115
Benzo[b]fluoranthene	ND		1.32	0.826		mg/Kg		62	42 - 115
Benzo[a]pyrene	ND		1.32	0.849		mg/Kg		64	43 - 115
Benzo[k]fluoranthene	ND		1.32	0.866		mg/Kg		65	40 - 115
Indeno[1,2,3-cd]pyrene	ND		1.32	1.06		mg/Kg		80	48 - 115
Benzo[g,h,i]perylene	ND		1.32	1.04		mg/Kg		79	50 - 115
Benzoic acid	ND		1.32	0.836		mg/Kg		63	10 - 115

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

**Lab Sample ID: 720-68723-10 MS**

**Matrix: Solid**  
**Analysis Batch: 193155**

**Client Sample ID: B-2-15**

**Prep Type: Total/NA**  
**Prep Batch: 193042**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Azobenzene	ND		1.32	0.915		mg/Kg		69	46 - 115
Dibenz(a,h)anthracene	ND		1.32	1.09		mg/Kg		82	47 - 115

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5	53		21 - 98
2-Fluorobiphenyl	69		30 - 112
Terphenyl-d14	77		32 - 117
2-Fluorophenol	70		28 - 98
Phenol-d5	64		23 - 101
2,4,6-Tribromophenol	74		37 - 114

**Lab Sample ID: 720-68723-10 MSD**

**Matrix: Solid**  
**Analysis Batch: 193155**

**Client Sample ID: B-2-15**

**Prep Type: Total/NA**  
**Prep Batch: 193042**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Phenol	ND		1.33	1.03		mg/Kg		77	35 - 115	13	35
Bis(2-chloroethyl)ether	ND		1.33	0.871		mg/Kg		66	33 - 115	12	35
2-Chlorophenol	ND		1.33	0.960		mg/Kg		72	39 - 115	12	35
1,3-Dichlorobenzene	ND *		1.33	0.876		mg/Kg		66	35 - 115	11	35
1,4-Dichlorobenzene	ND		1.33	0.908		mg/Kg		68	37 - 115	13	35
Benzyl alcohol	ND		1.33	0.999		mg/Kg		75	42 - 115	12	35
1,2-Dichlorobenzene	ND		1.33	0.904		mg/Kg		68	37 - 115	13	35
2-Methylphenol	ND		1.33	0.917		mg/Kg		69	41 - 115	14	35
Methylphenol, 3 & 4	ND		1.33	1.03		mg/Kg		77	39 - 115	13	35
N-Nitrosodi-n-propylamine	ND		1.33	0.934		mg/Kg		70	40 - 115	12	35
Hexachloroethane	ND *		1.33	0.913		mg/Kg		69	29 - 115	13	35
Nitrobenzene	ND		1.33	0.904		mg/Kg		68	42 - 115	9	35
Isophorone	ND		1.33	0.903		mg/Kg		68	41 - 115	12	35
2-Nitrophenol	ND		1.33	0.944		mg/Kg		71	42 - 116	10	35
2,4-Dimethylphenol	ND		1.33	0.971		mg/Kg		73	37 - 115	15	35
Bis(2-chloroethoxy)methane	ND		1.33	0.932		mg/Kg		70	38 - 115	12	35
2,4-Dichlorophenol	ND		1.33	1.03		mg/Kg		77	46 - 115	13	35
1,2,4-Trichlorobenzene	ND		1.33	0.940		mg/Kg		71	41 - 115	10	35
Naphthalene	ND		1.33	0.929		mg/Kg		70	40 - 115	9	35
4-Chloroaniline	ND		1.33	0.641		mg/Kg		48	32 - 115	15	35
Hexachlorobutadiene	ND		1.33	0.948		mg/Kg		71	42 - 115	9	35
4-Chloro-3-methylphenol	ND		1.33	1.01		mg/Kg		76	46 - 115	13	35
2-Methylnaphthalene	ND		1.33	0.980		mg/Kg		74	41 - 115	11	35
Hexachlorocyclopentadiene	ND		1.33	0.761		mg/Kg		57	10 - 125	9	35
2,4,6-Trichlorophenol	ND		1.33	1.06		mg/Kg		80	48 - 115	14	35
2,4,5-Trichlorophenol	ND		1.33	1.07		mg/Kg		81	49 - 115	14	35
2-Chloronaphthalene	ND		1.33	1.04		mg/Kg		78	45 - 115	11	35
2-Nitroaniline	ND		1.33	1.02		mg/Kg		77	49 - 115	13	35
Dimethyl phthalate	ND		1.33	1.04		mg/Kg		78	47 - 115	13	35
Acenaphthylene	ND		1.33	1.02		mg/Kg		77	46 - 115	12	35
3-Nitroaniline	ND		1.33	0.838		mg/Kg		63	39 - 115	15	35

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: 720-68723-10 MSD

Matrix: Solid  
Analysis Batch: 193155

Client Sample ID: B-2-15

Prep Type: Total/NA  
Prep Batch: 193042

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
				Result	Qualifier						
Acenaphthene	ND		1.33	1.06		mg/Kg		80	45 - 115	11	35
2,4-Dinitrophenol	ND		2.66	1.92		mg/Kg		72	10 - 123	16	35
4-Nitrophenol	ND		2.66	2.39		mg/Kg		90	37 - 129	12	35
Dibenzofuran	ND		1.33	1.02		mg/Kg		77	48 - 115	12	35
2,4-Dinitrotoluene	ND		1.33	1.02		mg/Kg		77	48 - 115	13	35
2,6-Dinitrotoluene	ND		1.33	1.02		mg/Kg		76	44 - 115	13	35
Diethyl phthalate	ND		1.33	1.07		mg/Kg		80	47 - 115	13	35
4-Chlorophenyl phenyl ether	ND		1.33	1.10		mg/Kg		83	46 - 115	12	35
Fluorene	ND		1.33	1.08		mg/Kg		82	47 - 115	12	35
4-Nitroaniline	ND		1.33	1.15		mg/Kg		86	40 - 115	12	35
2-Methyl-4,6-dinitrophenol	ND		2.66	1.97		mg/Kg		74	10 - 124	16	35
N-Nitrosodiphenylamine	ND		2.28	1.81		mg/Kg		79	44 - 115	15	35
4-Bromophenyl phenyl ether	ND		1.33	1.01		mg/Kg		76	46 - 115	16	35
Hexachlorobenzene	ND		1.33	1.02		mg/Kg		77	46 - 115	16	35
Pentachlorophenol	ND		2.66	2.12		mg/Kg		80	23 - 122	20	35
Phenanthrene	ND		1.33	1.14		mg/Kg		86	34 - 120	15	35
Anthracene	ND		1.33	1.14		mg/Kg		86	45 - 115	14	35
Di-n-butyl phthalate	ND		1.33	1.15		mg/Kg		86	44 - 115	16	35
Fluoranthene	ND		1.33	1.14		mg/Kg		85	34 - 116	17	35
Pyrene	ND		1.33	1.14		mg/Kg		86	42 - 119	18	35
Butyl benzyl phthalate	ND		1.33	1.08		mg/Kg		82	46 - 115	16	35
3,3'-Dichlorobenzidine	ND		1.33	0.829		mg/Kg		62	10 - 115	25	35
Benzo[a]anthracene	ND		1.33	1.11		mg/Kg		83	43 - 115	14	35
Bis(2-ethylhexyl) phthalate	ND		1.33	1.09		mg/Kg		82	46 - 115	14	35
Chrysene	ND		1.33	1.11		mg/Kg		84	43 - 115	17	35
Di-n-octyl phthalate	ND		1.33	1.03		mg/Kg		78	46 - 115	14	35
Benzo[b]fluoranthene	ND		1.33	1.00		mg/Kg		76	42 - 115	20	35
Benzo[a]pyrene	ND		1.33	1.02		mg/Kg		76	43 - 115	18	35
Benzo[k]fluoranthene	ND		1.33	1.02		mg/Kg		77	40 - 115	16	35
Indeno[1,2,3-cd]pyrene	ND		1.33	1.27		mg/Kg		96	48 - 115	18	35
Benzo[g,h,i]perylene	ND		1.33	1.23		mg/Kg		93	50 - 115	17	35
Benzoic acid	ND		1.33	1.03		mg/Kg		77	10 - 115	20	35
Azobenzene	ND		1.33	1.03		mg/Kg		77	46 - 115	11	35
Dibenz(a,h)anthracene	ND		1.33	1.30		mg/Kg		98	47 - 115	18	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Nitrobenzene-d5	58		21 - 98
2-Fluorobiphenyl	78		30 - 112
Terphenyl-d14	91		32 - 117
2-Fluorophenol	76		28 - 98
Phenol-d5	73		23 - 101
2,4,6-Tribromophenol	86		37 - 114

TestAmerica Pleasanton

# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 720-192961/1-A**  
**Matrix: Water**  
**Analysis Batch: 193014**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 192961**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		11/20/15 10:22	11/22/15 02:08	1
Motor Oil Range Organics [C24-C36]	ND		99		ug/L		11/20/15 10:22	11/22/15 02:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.01		0 - 5	11/20/15 10:22	11/22/15 02:08	1
p-Terphenyl	106		31 - 150	11/20/15 10:22	11/22/15 02:08	1

**Lab Sample ID: LCS 720-192961/2-A**  
**Matrix: Water**  
**Analysis Batch: 193014**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 192961**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Diesel Range Organics [C10-C28]	2500	2620		ug/L		105	32 - 119

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	127		31 - 150

**Lab Sample ID: LCSD 720-192961/3-A**  
**Matrix: Water**  
**Analysis Batch: 193014**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 192961**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2500	2220		ug/L		89	32 - 119	16	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	118		31 - 150

**Lab Sample ID: MB 720-193071/1-A**  
**Matrix: Solid**  
**Analysis Batch: 193107**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 193071**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		11/23/15 15:06	11/24/15 23:22	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		11/23/15 15:06	11/24/15 23:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.007		0 - 1	11/23/15 15:06	11/24/15 23:22	1
p-Terphenyl	104		38 - 148	11/23/15 15:06	11/24/15 23:22	1

**Lab Sample ID: LCS 720-193071/2-A**  
**Matrix: Solid**  
**Analysis Batch: 193107**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 193071**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Diesel Range Organics [C10-C28]	83.3	78.5		mg/Kg		94	36 - 112

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: LCS 720-193071/2-A**  
**Matrix: Solid**  
**Analysis Batch: 193107**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 193071**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>p-Terphenyl</i>	115		38 - 148

## Method: 8081A - Organochlorine Pesticides (GC)

**Lab Sample ID: MB 720-192978/1-A**  
**Matrix: Solid**  
**Analysis Batch: 193009**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 192978**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		11/20/15 15:24	11/21/15 11:38	1
Dieldrin	ND		2.0		ug/Kg		11/20/15 15:24	11/21/15 11:38	1
Endrin aldehyde	ND		2.0		ug/Kg		11/20/15 15:24	11/21/15 11:38	1
Endrin	ND		2.0		ug/Kg		11/20/15 15:24	11/21/15 11:38	1
Endrin ketone	ND		2.0		ug/Kg		11/20/15 15:24	11/21/15 11:38	1
Heptachlor	ND		2.0		ug/Kg		11/20/15 15:24	11/21/15 11:38	1
Heptachlor epoxide	ND		2.0		ug/Kg		11/20/15 15:24	11/21/15 11:38	1
4,4'-DDT	ND		2.0		ug/Kg		11/20/15 15:24	11/21/15 11:38	1
4,4'-DDE	ND		2.0		ug/Kg		11/20/15 15:24	11/21/15 11:38	1
4,4'-DDD	ND		2.0		ug/Kg		11/20/15 15:24	11/21/15 11:38	1
Endosulfan I	ND		2.0		ug/Kg		11/20/15 15:24	11/21/15 11:38	1
Endosulfan II	ND		2.0		ug/Kg		11/20/15 15:24	11/21/15 11:38	1
alpha-BHC	ND		2.0		ug/Kg		11/20/15 15:24	11/21/15 11:38	1
beta-BHC	ND		2.0		ug/Kg		11/20/15 15:24	11/21/15 11:38	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		11/20/15 15:24	11/21/15 11:38	1
delta-BHC	ND		2.0		ug/Kg		11/20/15 15:24	11/21/15 11:38	1
Endosulfan sulfate	ND		2.0		ug/Kg		11/20/15 15:24	11/21/15 11:38	1
Methoxychlor	ND		2.0		ug/Kg		11/20/15 15:24	11/21/15 11:38	1
Toxaphene	ND		40		ug/Kg		11/20/15 15:24	11/21/15 11:38	1
Chlordane (technical)	ND		40		ug/Kg		11/20/15 15:24	11/21/15 11:38	1
alpha-Chlordane	ND		2.0		ug/Kg		11/20/15 15:24	11/21/15 11:38	1
gamma-Chlordane	ND		2.0		ug/Kg		11/20/15 15:24	11/21/15 11:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	105		57 - 122	11/20/15 15:24	11/21/15 11:38	1
<i>DCB Decachlorobiphenyl</i>	118		21 - 136	11/20/15 15:24	11/21/15 11:38	1

**Lab Sample ID: LCS 720-192978/2-A**  
**Matrix: Solid**  
**Analysis Batch: 193009**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 192978**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	16.7	18.6		ug/Kg		112	65 - 120
Dieldrin	16.7	18.8		ug/Kg		113	72 - 120
Endrin aldehyde	16.7	19.1		ug/Kg		115	68 - 120
Endrin	16.7	18.7		ug/Kg		112	68 - 120
Endrin ketone	16.7	19.3		ug/Kg		116	84 - 133
Heptachlor	16.7	19.0		ug/Kg		114	69 - 120

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: LCS 720-192978/2-A**  
**Matrix: Solid**  
**Analysis Batch: 193009**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 192978**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor epoxide	16.7	18.8		ug/Kg		113	68 - 120
4,4'-DDT	16.7	19.4		ug/Kg		116	63 - 127
4,4'-DDE	16.7	19.2		ug/Kg		115	84 - 126
4,4'-DDD	16.7	19.5		ug/Kg		117	85 - 128
Endosulfan I	16.7	18.8		ug/Kg		113	62 - 120
Endosulfan II	16.7	19.4		ug/Kg		117	65 - 120
alpha-BHC	16.7	17.1		ug/Kg		103	62 - 120
beta-BHC	16.7	18.4		ug/Kg		110	74 - 124
gamma-BHC (Lindane)	16.7	17.8		ug/Kg		107	72 - 120
delta-BHC	16.7	14.6		ug/Kg		87	43 - 125
Endosulfan sulfate	16.7	18.3		ug/Kg		110	84 - 126
Methoxychlor	16.7	19.4		ug/Kg		116	71 - 132
alpha-Chlordane	16.7	18.7		ug/Kg		112	70 - 120
gamma-Chlordane	16.7	18.8		ug/Kg		113	68 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	103		57 - 122
DCB Decachlorobiphenyl	114		21 - 136

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 720-192977/1-A**  
**Matrix: Solid**  
**Analysis Batch: 193017**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 192977**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		11/20/15 15:24	11/21/15 17:09	1
PCB-1221	ND		50		ug/Kg		11/20/15 15:24	11/21/15 17:09	1
PCB-1232	ND		50		ug/Kg		11/20/15 15:24	11/21/15 17:09	1
PCB-1242	ND		50		ug/Kg		11/20/15 15:24	11/21/15 17:09	1
PCB-1248	ND		50		ug/Kg		11/20/15 15:24	11/21/15 17:09	1
PCB-1254	ND		50		ug/Kg		11/20/15 15:24	11/21/15 17:09	1
PCB-1260	ND		50		ug/Kg		11/20/15 15:24	11/21/15 17:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		45 - 132	11/20/15 15:24	11/21/15 17:09	1
DCB Decachlorobiphenyl	97		42 - 146	11/20/15 15:24	11/21/15 17:09	1

**Lab Sample ID: LCS 720-192977/2-A**  
**Matrix: Solid**  
**Analysis Batch: 193017**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 192977**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	133	120		ug/Kg		90	65 - 121
PCB-1260	133	127		ug/Kg		95	68 - 127

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# QC Sample Results

Client: Ninyo & Moore  
 Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: LCS 720-192977/2-A**  
**Matrix: Solid**  
**Analysis Batch: 193017**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 192977**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	85		45 - 132
DCB Decachlorobiphenyl	100		42 - 146

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 720-192938/1-A**  
**Matrix: Solid**  
**Analysis Batch: 193104**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 192938**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		11/19/15 18:47	11/23/15 18:50	1
Arsenic	ND		1.0		mg/Kg		11/19/15 18:47	11/23/15 18:50	1
Barium	ND		0.50		mg/Kg		11/19/15 18:47	11/23/15 18:50	1
Beryllium	ND		0.10		mg/Kg		11/19/15 18:47	11/23/15 18:50	1
Cadmium	ND		0.13		mg/Kg		11/19/15 18:47	11/23/15 18:50	1
Chromium	ND		0.50		mg/Kg		11/19/15 18:47	11/23/15 18:50	1
Cobalt	ND		0.20		mg/Kg		11/19/15 18:47	11/23/15 18:50	1
Copper	ND		1.5		mg/Kg		11/19/15 18:47	11/23/15 18:50	1
Lead	ND		0.50		mg/Kg		11/19/15 18:47	11/23/15 18:50	1
Molybdenum	ND		0.50		mg/Kg		11/19/15 18:47	11/23/15 18:50	1
Nickel	ND		0.50		mg/Kg		11/19/15 18:47	11/23/15 18:50	1
Selenium	ND		1.0		mg/Kg		11/19/15 18:47	11/23/15 18:50	1
Silver	ND		0.25		mg/Kg		11/19/15 18:47	11/23/15 18:50	1
Thallium	ND		0.50		mg/Kg		11/19/15 18:47	11/23/15 18:50	1
Vanadium	ND		0.50		mg/Kg		11/19/15 18:47	11/23/15 18:50	1
Zinc	ND		1.5		mg/Kg		11/19/15 18:47	11/23/15 18:50	1

**Lab Sample ID: LCS 720-192938/2-A**  
**Matrix: Solid**  
**Analysis Batch: 193104**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 192938**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	47.5		mg/Kg		95	80 - 120
Arsenic	50.0	45.7		mg/Kg		91	80 - 120
Barium	50.0	50.7		mg/Kg		101	80 - 120
Beryllium	50.0	46.1		mg/Kg		92	80 - 120
Cadmium	50.0	47.6		mg/Kg		95	80 - 120
Chromium	50.0	48.2		mg/Kg		96	80 - 120
Cobalt	50.0	50.8		mg/Kg		102	80 - 120
Copper	50.0	48.9		mg/Kg		98	80 - 120
Lead	50.0	46.9		mg/Kg		94	80 - 120
Molybdenum	50.0	47.5		mg/Kg		95	80 - 120
Nickel	50.0	49.3		mg/Kg		99	80 - 120
Selenium	50.0	44.9		mg/Kg		90	80 - 120
Silver	25.0	23.1		mg/Kg		92	80 - 120
Thallium	50.0	46.7		mg/Kg		93	80 - 120
Vanadium	50.0	49.2		mg/Kg		98	80 - 120
Zinc	50.0	50.6		mg/Kg		101	80 - 120

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LCSD 720-192938/3-A**  
**Matrix: Solid**  
**Analysis Batch: 193104**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 192938**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	50.0	48.0		mg/Kg		96	80 - 120	1	20
Arsenic	50.0	46.0		mg/Kg		92	80 - 120	1	20
Barium	50.0	51.6		mg/Kg		103	80 - 120	2	20
Beryllium	50.0	46.1		mg/Kg		92	80 - 120	0	20
Cadmium	50.0	48.2		mg/Kg		96	80 - 120	1	20
Chromium	50.0	48.8		mg/Kg		98	80 - 120	1	20
Cobalt	50.0	52.0		mg/Kg		104	80 - 120	2	20
Copper	50.0	49.7		mg/Kg		99	80 - 120	2	20
Lead	50.0	47.2		mg/Kg		94	80 - 120	1	20
Molybdenum	50.0	47.7		mg/Kg		95	80 - 120	0	20
Nickel	50.0	50.1		mg/Kg		100	80 - 120	2	20
Selenium	50.0	45.1		mg/Kg		90	80 - 120	0	20
Silver	25.0	23.2		mg/Kg		93	80 - 120	1	20
Thallium	50.0	46.7		mg/Kg		93	80 - 120	0	20
Vanadium	50.0	50.1		mg/Kg		100	80 - 120	2	20
Zinc	50.0	51.7		mg/Kg		103	80 - 120	2	20

**Lab Sample ID: LCSSRM 720-192938/4-A**  
**Matrix: Solid**  
**Analysis Batch: 193104**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 192938**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	74.6	42.7		mg/Kg		57	11 - 101		
Arsenic	45.5	41.2		mg/Kg		91	69 - 119		
Barium	579	533		mg/Kg		92	61 - 117		
Beryllium	155	134		mg/Kg		86	56 - 102		
Cadmium	201	186		mg/Kg		92	67 - 118		
Chromium	106	97.8		mg/Kg		92	67 - 121		
Cobalt	247	246		mg/Kg		99	64 - 133		
Copper	130	124		mg/Kg		96	68 - 126		
Lead	302	260		mg/Kg		86	62 - 113		
Molybdenum	165	147		mg/Kg		89	62 - 128		
Nickel	305	287		mg/Kg		94	65 - 117		
Selenium	133	121		mg/Kg		91	63 - 126		
Silver	33.5	30.5		mg/Kg		91	51 - 130		
Thallium	191	166		mg/Kg		87	64 - 124		
Vanadium	214	203		mg/Kg		95	67 - 123		
Zinc	388	375		mg/Kg		97	62 - 110		

**Lab Sample ID: LCS 720-192994/2-A**  
**Matrix: Water**  
**Analysis Batch: 193078**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 192994**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.00	0.955		mg/L		96	80 - 120		
Arsenic	1.00	0.942		mg/L		94	80 - 120		
Barium	1.00	0.974		mg/L		97	80 - 120		
Beryllium	1.00	0.951		mg/L		95	80 - 120		

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LCS 720-192994/2-A**  
**Matrix: Water**  
**Analysis Batch: 193078**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 192994**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	1.00	0.955		mg/L		96	80 - 120
Chromium	1.00	0.959		mg/L		96	80 - 120
Cobalt	1.00	0.984		mg/L		98	80 - 120
Copper	1.00	0.961		mg/L		96	80 - 120
Lead	1.00	0.962		mg/L		96	80 - 120
Molybdenum	1.00	0.958		mg/L		96	80 - 120
Nickel	1.00	0.978		mg/L		98	80 - 120
Selenium	1.00	0.962		mg/L		96	80 - 120
Silver	0.500	0.478		mg/L		96	80 - 120
Thallium	1.00	0.971		mg/L		97	80 - 120
Vanadium	1.00	0.958		mg/L		96	80 - 120
Zinc	1.00	0.986		mg/L		99	80 - 120

**Lab Sample ID: LCSD 720-192994/3-A**  
**Matrix: Water**  
**Analysis Batch: 193078**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total Recoverable**  
**Prep Batch: 192994**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Antimony	1.00	0.970		mg/L		97	80 - 120	2	20
Arsenic	1.00	0.939		mg/L		94	80 - 120	0	20
Barium	1.00	0.977		mg/L		98	80 - 120	0	20
Beryllium	1.00	0.938		mg/L		94	80 - 120	1	20
Cadmium	1.00	0.956		mg/L		96	80 - 120	0	20
Chromium	1.00	0.959		mg/L		96	80 - 120	0	20
Cobalt	1.00	0.990		mg/L		99	80 - 120	1	20
Copper	1.00	0.962		mg/L		96	80 - 120	0	20
Lead	1.00	0.960		mg/L		96	80 - 120	0	20
Molybdenum	1.00	0.956		mg/L		96	80 - 120	0	20
Nickel	1.00	0.980		mg/L		98	80 - 120	0	20
Selenium	1.00	0.964		mg/L		96	80 - 120	0	20
Silver	0.500	0.475		mg/L		95	80 - 120	1	20
Thallium	1.00	0.965		mg/L		97	80 - 120	1	20
Vanadium	1.00	0.961		mg/L		96	80 - 120	0	20
Zinc	1.00	0.990		mg/L		99	80 - 120	0	20

**Lab Sample ID: MB 720-192933/1-B**  
**Matrix: Water**  
**Analysis Batch: 193078**

**Client Sample ID: Method Blank**  
**Prep Type: Dissolved**  
**Prep Batch: 192994**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		11/20/15 16:54	11/23/15 14:47	1
Arsenic	ND		0.010		mg/L		11/20/15 16:54	11/23/15 14:47	1
Barium	ND		0.050		mg/L		11/20/15 16:54	11/23/15 14:47	1
Beryllium	ND		0.0020		mg/L		11/20/15 16:54	11/23/15 14:47	1
Cadmium	ND		0.0020		mg/L		11/20/15 16:54	11/23/15 14:47	1
Chromium	ND		0.010		mg/L		11/20/15 16:54	11/23/15 14:47	1
Cobalt	ND		0.0020		mg/L		11/20/15 16:54	11/23/15 14:47	1
Copper	ND		0.020		mg/L		11/20/15 16:54	11/23/15 14:47	1
Lead	ND		0.0050		mg/L		11/20/15 16:54	11/23/15 14:47	1

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: MB 720-192933/1-B**  
**Matrix: Water**  
**Analysis Batch: 193078**

**Client Sample ID: Method Blank**  
**Prep Type: Dissolved**  
**Prep Batch: 192994**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Molybdenum	ND		0.010		mg/L		11/20/15 16:54	11/23/15 14:47	1
Nickel	ND		0.010		mg/L		11/20/15 16:54	11/23/15 14:47	1
Selenium	ND		0.020		mg/L		11/20/15 16:54	11/23/15 14:47	1
Silver	ND		0.0050		mg/L		11/20/15 16:54	11/23/15 14:47	1
Thallium	ND		0.010		mg/L		11/20/15 16:54	11/23/15 14:47	1
Vanadium	ND		0.010		mg/L		11/20/15 16:54	11/23/15 14:47	1
Zinc	ND		0.020		mg/L		11/20/15 16:54	11/23/15 14:47	1

**Lab Sample ID: 720-68723-6 MS**  
**Matrix: Water**  
**Analysis Batch: 193078**

**Client Sample ID: B-2-GW**  
**Prep Type: Dissolved**  
**Prep Batch: 192994**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Antimony	ND		1.00	0.978		mg/L		97		75 - 125
Arsenic	ND		1.00	0.962		mg/L		96		75 - 125
Barium	0.14		1.00	1.13		mg/L		99		75 - 125
Beryllium	ND		1.00	0.949		mg/L		95		75 - 125
Cadmium	ND		1.00	0.956		mg/L		96		75 - 125
Chromium	ND		1.00	0.968		mg/L		97		75 - 125
Cobalt	0.0042		1.00	0.984		mg/L		98		75 - 125
Copper	ND		1.00	0.967		mg/L		97		75 - 125
Lead	ND		1.00	0.945		mg/L		94		75 - 125
Molybdenum	0.012		1.00	0.977		mg/L		96		75 - 125
Nickel	ND		1.00	0.973		mg/L		97		75 - 125
Selenium	ND		1.00	0.961		mg/L		96		75 - 125
Silver	ND		0.500	0.477		mg/L		95		75 - 125
Thallium	ND		1.00	0.941		mg/L		94		75 - 125
Vanadium	ND		1.00	0.987		mg/L		99		75 - 125
Zinc	0.023		1.00	1.02		mg/L		99		75 - 125

**Lab Sample ID: 720-68723-6 MSD**  
**Matrix: Water**  
**Analysis Batch: 193078**

**Client Sample ID: B-2-GW**  
**Prep Type: Dissolved**  
**Prep Batch: 192994**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Antimony	ND		1.00	0.963		mg/L		96		75 - 125	2	20
Arsenic	ND		1.00	0.965		mg/L		97		75 - 125	0	20
Barium	0.14		1.00	1.12		mg/L		98		75 - 125	1	20
Beryllium	ND		1.00	0.951		mg/L		95		75 - 125	0	20
Cadmium	ND		1.00	0.958		mg/L		96		75 - 125	0	20
Chromium	ND		1.00	0.968		mg/L		97		75 - 125	0	20
Cobalt	0.0042		1.00	0.983		mg/L		98		75 - 125	0	20
Copper	ND		1.00	0.965		mg/L		96		75 - 125	0	20
Lead	ND		1.00	0.949		mg/L		95		75 - 125	0	20
Molybdenum	0.012		1.00	0.983		mg/L		97		75 - 125	1	20
Nickel	ND		1.00	0.974		mg/L		97		75 - 125	0	20
Selenium	ND		1.00	0.960		mg/L		96		75 - 125	0	20
Silver	ND		0.500	0.477		mg/L		95		75 - 125	0	20
Thallium	ND		1.00	0.950		mg/L		95		75 - 125	1	20

TestAmerica Pleasanton



# QC Sample Results

Client: Ninyo & Moore  
 Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-68723-6 MSD  
 Matrix: Water  
 Analysis Batch: 193078

Client Sample ID: B-2-GW  
 Prep Type: Dissolved  
 Prep Batch: 192994

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vanadium	ND		1.00	0.984		mg/L		98	75 - 125	0	20
Zinc	0.023		1.00	1.01		mg/L		99	75 - 125	0	20

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: LCS 720-193139/2-A  
 Matrix: Water  
 Analysis Batch: 193177

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 193139

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.0100	0.00880		mg/L		88	85 - 115		

Lab Sample ID: LCSD 720-193139/3-A  
 Matrix: Water  
 Analysis Batch: 193177

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 193139

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.0100	0.00864		mg/L		86	85 - 115	2	20

Lab Sample ID: MB 720-192933/1-D  
 Matrix: Water  
 Analysis Batch: 193177

Client Sample ID: Method Blank  
 Prep Type: Dissolved  
 Prep Batch: 193139

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		11/24/15 11:01	11/24/15 18:35	1

## Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-192932/1-A  
 Matrix: Solid  
 Analysis Batch: 193087

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 192932

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		11/19/15 17:01	11/23/15 15:53	1

Lab Sample ID: LCS 720-192932/2-A  
 Matrix: Solid  
 Analysis Batch: 193087

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 192932

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.833	0.766		mg/Kg		92	80 - 120		

Lab Sample ID: LCSD 720-192932/3-A  
 Matrix: Solid  
 Analysis Batch: 193087

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 192932

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.833	0.753		mg/Kg		90	80 - 120	2	20

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# QC Association Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## GC/MS VOA

### Analysis Batch: 193023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-3	B-1-13	Total/NA	Solid	8260B	193025
720-68723-10	B-2-15	Total/NA	Solid	8260B	193025
720-68723-16	B-3-15	Total/NA	Solid	8260B	193025
LCS 720-193023/6	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-193023/8	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-193023/7	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCSD 720-193023/9	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-193023/5	Method Blank	Total/NA	Solid	8260B	

### Prep Batch: 193025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-3	B-1-13	Total/NA	Solid	5030B	
720-68723-10	B-2-15	Total/NA	Solid	5030B	
720-68723-16	B-3-15	Total/NA	Solid	5030B	

### Analysis Batch: 193083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-6	B-2-GW	Total/NA	Water	8260B/CA_LUFT MS	
720-68723-7	B-3-GW	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-193083/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-193083/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-193083/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-193083/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-193083/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

### Analysis Batch: 193111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-18	B-4-1	Total/NA	Solid	8260B	193142
LCS 720-193111/5	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-193111/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-193111/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCSD 720-193111/8	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-193111/4	Method Blank	Total/NA	Solid	8260B	

### Prep Batch: 193142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-18	B-4-1	Total/NA	Solid	5030B	

## GC/MS Semi VOA

### Prep Batch: 193042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-3	B-1-13	Total/NA	Solid	3546	
720-68723-10	B-2-15	Total/NA	Solid	3546	
720-68723-10 MS	B-2-15	Total/NA	Solid	3546	

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# QC Association Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## GC/MS Semi VOA (Continued)

### Prep Batch: 193042 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-10 MSD	B-2-15	Total/NA	Solid	3546	
720-68723-16	B-3-15	Total/NA	Solid	3546	
720-68723-18	B-4-1	Total/NA	Solid	3546	
LCS 720-193042/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 720-193042/1-A	Method Blank	Total/NA	Solid	3546	

### Analysis Batch: 193155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-3	B-1-13	Total/NA	Solid	8270C	193042
720-68723-10	B-2-15	Total/NA	Solid	8270C	193042
720-68723-10 MS	B-2-15	Total/NA	Solid	8270C	193042
720-68723-10 MSD	B-2-15	Total/NA	Solid	8270C	193042
720-68723-16	B-3-15	Total/NA	Solid	8270C	193042
MB 720-193042/1-A	Method Blank	Total/NA	Solid	8270C	193042

### Analysis Batch: 193156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-18	B-4-1	Total/NA	Solid	8270C	193042
LCS 720-193042/2-A	Lab Control Sample	Total/NA	Solid	8270C	193042

## GC Semi VOA

### Prep Batch: 192961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-6	B-2-GW	Silica Gel Cleanup	Water	3510C SGC	
720-68723-7	B-3-GW	Silica Gel Cleanup	Water	3510C SGC	
LCS 720-192961/2-A	Lab Control Sample	Silica Gel Cleanup	Water	3510C SGC	
LCS 720-192961/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	3510C SGC	
MB 720-192961/1-A	Method Blank	Silica Gel Cleanup	Water	3510C SGC	

### Prep Batch: 192977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-1	B-1-3	Total/NA	Solid	3546	
720-68723-8	B-2-3	Total/NA	Solid	3546	
720-68723-13	B-3-1	Total/NA	Solid	3546	
LCS 720-192977/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 720-192977/1-A	Method Blank	Total/NA	Solid	3546	

### Prep Batch: 192978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-1	B-1-3	Total/NA	Solid	3546	
720-68723-8	B-2-3	Total/NA	Solid	3546	
720-68723-13	B-3-1	Total/NA	Solid	3546	
LCS 720-192978/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 720-192978/1-A	Method Blank	Total/NA	Solid	3546	

### Analysis Batch: 193009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-192978/2-A	Lab Control Sample	Total/NA	Solid	8081A	192978
MB 720-192978/1-A	Method Blank	Total/NA	Solid	8081A	192978

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# QC Association Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## GC Semi VOA (Continued)

### Analysis Batch: 193014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-192961/2-A	Lab Control Sample	Silica Gel Cleanup	Water	8015B	192961
LCSD 720-192961/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	8015B	192961
MB 720-192961/1-A	Method Blank	Silica Gel Cleanup	Water	8015B	192961

### Analysis Batch: 193015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-6	B-2-GW	Silica Gel Cleanup	Water	8015B	192961
720-68723-7	B-3-GW	Silica Gel Cleanup	Water	8015B	192961

### Analysis Batch: 193017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-1	B-1-3	Total/NA	Solid	8082	192977
720-68723-8	B-2-3	Total/NA	Solid	8082	192977
720-68723-13	B-3-1	Total/NA	Solid	8082	192977
LCS 720-192977/2-A	Lab Control Sample	Total/NA	Solid	8082	192977
MB 720-192977/1-A	Method Blank	Total/NA	Solid	8082	192977

### Analysis Batch: 193018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-1	B-1-3	Total/NA	Solid	8081A	192978
720-68723-8	B-2-3	Total/NA	Solid	8081A	192978

### Analysis Batch: 193037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-13	B-3-1	Total/NA	Solid	8081A	192978

### Prep Batch: 193071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-5	B-1-3,-7,-13,-20	Silica Gel Cleanup	Solid	3546	
720-68723-12	B-2-3,-7,-15,-18	Silica Gel Cleanup	Solid	3546	
720-68723-17	B-3-1,-7,-11,-15	Silica Gel Cleanup	Solid	3546	
720-68723-22	B-4-1,-5,-10,-15	Silica Gel Cleanup	Solid	3546	
LCS 720-193071/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
MB 720-193071/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

### Analysis Batch: 193107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-5	B-1-3,-7,-13,-20	Silica Gel Cleanup	Solid	8015B	193071
720-68723-12	B-2-3,-7,-15,-18	Silica Gel Cleanup	Solid	8015B	193071
720-68723-17	B-3-1,-7,-11,-15	Silica Gel Cleanup	Solid	8015B	193071
720-68723-22	B-4-1,-5,-10,-15	Silica Gel Cleanup	Solid	8015B	193071
LCS 720-193071/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	193071
MB 720-193071/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	193071

## Metals

### Prep Batch: 192932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-5	B-1-3,-7,-13,-20	Total/NA	Solid	7471A	
720-68723-12	B-2-3,-7,-15,-18	Total/NA	Solid	7471A	

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# QC Association Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Metals (Continued)

### Prep Batch: 192932 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-17	B-3-1,-7,-11,-15	Total/NA	Solid	7471A	
720-68723-22	B-4-1,-5,-10,-15	Total/NA	Solid	7471A	
LCS 720-192932/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-192932/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-192932/1-A	Method Blank	Total/NA	Solid	7471A	

### Filtration Batch: 192933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-6	B-2-GW	Dissolved	Water	FILTRATION	
720-68723-6	B-2-GW	Dissolved	Water	FILTRATION	
720-68723-6 MS	B-2-GW	Dissolved	Water	FILTRATION	
720-68723-6 MSD	B-2-GW	Dissolved	Water	FILTRATION	
720-68723-7	B-3-GW	Dissolved	Water	FILTRATION	
720-68723-7	B-3-GW	Dissolved	Water	FILTRATION	
MB 720-192933/1-B	Method Blank	Dissolved	Water	FILTRATION	
MB 720-192933/1-D	Method Blank	Dissolved	Water	FILTRATION	

### Prep Batch: 192938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-5	B-1-3,-7,-13,-20	Total/NA	Solid	3050B	
720-68723-12	B-2-3,-7,-15,-18	Total/NA	Solid	3050B	
720-68723-17	B-3-1,-7,-11,-15	Total/NA	Solid	3050B	
720-68723-22	B-4-1,-5,-10,-15	Total/NA	Solid	3050B	
LCS 720-192938/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-192938/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 720-192938/4-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 720-192938/1-A	Method Blank	Total/NA	Solid	3050B	

### Prep Batch: 192994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-6	B-2-GW	Dissolved	Water	3005A	192933
720-68723-6 MS	B-2-GW	Dissolved	Water	3005A	192933
720-68723-6 MSD	B-2-GW	Dissolved	Water	3005A	192933
720-68723-7	B-3-GW	Dissolved	Water	3005A	192933
LCS 720-192994/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 720-192994/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
MB 720-192933/1-B	Method Blank	Dissolved	Water	3005A	192933

### Analysis Batch: 193078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-6	B-2-GW	Dissolved	Water	6010B	192994
720-68723-6 MS	B-2-GW	Dissolved	Water	6010B	192994
720-68723-6 MSD	B-2-GW	Dissolved	Water	6010B	192994
720-68723-7	B-3-GW	Dissolved	Water	6010B	192994
LCS 720-192994/2-A	Lab Control Sample	Total Recoverable	Water	6010B	192994
LCSD 720-192994/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010B	192994
MB 720-192933/1-B	Method Blank	Dissolved	Water	6010B	192994

### Analysis Batch: 193087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-5	B-1-3,-7,-13,-20	Total/NA	Solid	7471A	192932

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# QC Association Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Metals (Continued)

### Analysis Batch: 193087 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-12	B-2-3,-7,-15,-18	Total/NA	Solid	7471A	192932
720-68723-17	B-3-1,-7,-11,-15	Total/NA	Solid	7471A	192932
720-68723-22	B-4-1,-5,-10,-15	Total/NA	Solid	7471A	192932
LCS 720-192932/2-A	Lab Control Sample	Total/NA	Solid	7471A	192932
LCSD 720-192932/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	192932
MB 720-192932/1-A	Method Blank	Total/NA	Solid	7471A	192932

### Analysis Batch: 193104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-5	B-1-3,-7,-13,-20	Total/NA	Solid	6010B	192938
720-68723-12	B-2-3,-7,-15,-18	Total/NA	Solid	6010B	192938
720-68723-17	B-3-1,-7,-11,-15	Total/NA	Solid	6010B	192938
720-68723-22	B-4-1,-5,-10,-15	Total/NA	Solid	6010B	192938
LCS 720-192938/2-A	Lab Control Sample	Total/NA	Solid	6010B	192938
LCSD 720-192938/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	192938
LCSSRM 720-192938/4-A	Lab Control Sample	Total/NA	Solid	6010B	192938
MB 720-192938/1-A	Method Blank	Total/NA	Solid	6010B	192938

### Analysis Batch: 193116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-17	B-3-1,-7,-11,-15	Total/NA	Solid	6010B	192938
720-68723-22	B-4-1,-5,-10,-15	Total/NA	Solid	6010B	192938

### Prep Batch: 193139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-6	B-2-GW	Dissolved	Water	7470A	192933
720-68723-7	B-3-GW	Dissolved	Water	7470A	192933
LCS 720-193139/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 720-193139/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	
MB 720-192933/1-D	Method Blank	Dissolved	Water	7470A	192933

### Analysis Batch: 193177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-6	B-2-GW	Dissolved	Water	7470A	193139
720-68723-7	B-3-GW	Dissolved	Water	7470A	193139
LCS 720-193139/2-A	Lab Control Sample	Total/NA	Water	7470A	193139
LCSD 720-193139/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	193139
MB 720-192933/1-D	Method Blank	Dissolved	Water	7470A	193139



# Lab Chronicle

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

**Client Sample ID: B-1-3**  
**Date Collected: 11/18/15 08:50**  
**Date Received: 11/18/15 15:50**

**Lab Sample ID: 720-68723-1**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			192978	11/20/15 15:24	AFM	TAL PLS
Total/NA	Analysis	8081A		1	193018	11/22/15 17:33	MQL	TAL PLS
Total/NA	Prep	3546			192977	11/20/15 15:24	DFR	TAL PLS
Total/NA	Analysis	8082		1	193017	11/21/15 19:39	DCH	TAL PLS

**Client Sample ID: B-1-13**  
**Date Collected: 11/18/15 10:05**  
**Date Received: 11/18/15 15:50**

**Lab Sample ID: 720-68723-3**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			193025	11/22/15 07:00	JRM	TAL PLS
Total/NA	Analysis	8260B		1	193023	11/22/15 19:10	YB1	TAL PLS
Total/NA	Prep	3546			193042	11/23/15 10:18	KMK	TAL PLS
Total/NA	Analysis	8270C		1	193155	11/24/15 18:02	MQL	TAL PLS

**Client Sample ID: B-1-3,-7,-13,-20**  
**Date Collected: 11/18/15 10:00**  
**Date Received: 11/18/15 15:50**

**Lab Sample ID: 720-68723-5**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			193071	11/23/15 15:06	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	193107	11/24/15 19:20	JXL	TAL PLS
Total/NA	Prep	3050B			192938	11/19/15 18:47	ASB	TAL PLS
Total/NA	Analysis	6010B		4	193104	11/23/15 20:05	SLK	TAL PLS
Total/NA	Prep	7471A			192932	11/19/15 17:01	ASB	TAL PLS
Total/NA	Analysis	7471A		1	193087	11/23/15 16:09	SLK	TAL PLS

**Client Sample ID: B-2-GW**  
**Date Collected: 11/18/15 10:00**  
**Date Received: 11/18/15 15:50**

**Lab Sample ID: 720-68723-6**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	193083	11/24/15 04:15	PRD	TAL PLS
Silica Gel Cleanup	Prep	3510C SGC			192961	11/20/15 10:22	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	193015	11/22/15 04:56	JXL	TAL PLS
Dissolved	Filtration	FILTRATION			192933	11/19/15 11:09	ASB	TAL PLS
Dissolved	Prep	3005A			192994	11/20/15 16:54	EFH	TAL PLS
Dissolved	Analysis	6010B		1	193078	11/23/15 15:17	SLK	TAL PLS
Dissolved	Filtration	FILTRATION			192933	11/23/15 13:38	ASB	TAL PLS
Dissolved	Prep	7470A			193139	11/24/15 11:01	ASB	TAL PLS
Dissolved	Analysis	7470A		1	193177	11/24/15 18:38	SLK	TAL PLS

TestAmerica Pleasanton

# Lab Chronicle

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

**Client Sample ID: B-3-GW**

**Date Collected: 11/18/15 12:25**

**Date Received: 11/18/15 15:50**

**Lab Sample ID: 720-68723-7**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	193083	11/24/15 04:43	PRD	TAL PLS
Silica Gel Cleanup	Prep	3510C SGC			192961	11/20/15 10:22	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	193015	11/22/15 05:20	JXL	TAL PLS
Dissolved	Filtration	FILTRATION			192933	11/19/15 11:09	ASB	TAL PLS
Dissolved	Prep	3005A			192994	11/20/15 16:54	EFH	TAL PLS
Dissolved	Analysis	6010B		1	193078	11/23/15 15:22	SLK	TAL PLS
Dissolved	Filtration	FILTRATION			192933	11/23/15 13:38	ASB	TAL PLS
Dissolved	Prep	7470A			193139	11/24/15 11:01	ASB	TAL PLS
Dissolved	Analysis	7470A		1	193177	11/24/15 18:41	SLK	TAL PLS

**Client Sample ID: B-2-3**

**Date Collected: 11/18/15 08:30**

**Date Received: 11/18/15 15:50**

**Lab Sample ID: 720-68723-8**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			192978	11/20/15 15:24	AFM	TAL PLS
Total/NA	Analysis	8081A		1	193018	11/22/15 17:50	MQL	TAL PLS
Total/NA	Prep	3546			192977	11/20/15 15:24	DFR	TAL PLS
Total/NA	Analysis	8082		1	193017	11/21/15 19:55	DCH	TAL PLS

**Client Sample ID: B-2-15**

**Date Collected: 11/18/15 09:19**

**Date Received: 11/18/15 15:50**

**Lab Sample ID: 720-68723-10**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			193025	11/22/15 07:00	JRM	TAL PLS
Total/NA	Analysis	8260B		1	193023	11/22/15 19:40	YB1	TAL PLS
Total/NA	Prep	3546			193042	11/23/15 10:18	KMK	TAL PLS
Total/NA	Analysis	8270C		1	193155	11/24/15 15:24	MQL	TAL PLS

**Client Sample ID: B-2-3,-7,-15,-18**

**Date Collected: 11/18/15 09:27**

**Date Received: 11/18/15 15:50**

**Lab Sample ID: 720-68723-12**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			193071	11/23/15 15:06	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	193107	11/24/15 19:44	JXL	TAL PLS
Total/NA	Prep	3050B			192938	11/19/15 18:47	ASB	TAL PLS
Total/NA	Analysis	6010B		4	193104	11/23/15 20:10	SLK	TAL PLS
Total/NA	Prep	7471A			192932	11/19/15 17:01	ASB	TAL PLS
Total/NA	Analysis	7471A		1	193087	11/23/15 16:12	SLK	TAL PLS

TestAmerica Pleasanton

# Lab Chronicle

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

**Client Sample ID: B-3-1**

**Lab Sample ID: 720-68723-13**

**Date Collected: 11/18/15 11:25**

**Matrix: Solid**

**Date Received: 11/18/15 15:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			192978	11/20/15 15:24	AFM	TAL PLS
Total/NA	Analysis	8081A		1	193037	11/23/15 14:14	MQL	TAL PLS
Total/NA	Prep	3546			192977	11/20/15 15:24	DFR	TAL PLS
Total/NA	Analysis	8082		1	193017	11/21/15 20:12	DCH	TAL PLS

**Client Sample ID: B-3-15**

**Lab Sample ID: 720-68723-16**

**Date Collected: 11/18/15 11:56**

**Matrix: Solid**

**Date Received: 11/18/15 15:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			193025	11/22/15 07:00	JRM	TAL PLS
Total/NA	Analysis	8260B		1	193023	11/22/15 20:10	YB1	TAL PLS
Total/NA	Prep	3546			193042	11/23/15 10:18	KMK	TAL PLS
Total/NA	Analysis	8270C		1	193155	11/24/15 18:25	MQL	TAL PLS

**Client Sample ID: B-3-1,-7,-11,-15**

**Lab Sample ID: 720-68723-17**

**Date Collected: 11/18/15 11:56**

**Matrix: Solid**

**Date Received: 11/18/15 15:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			193071	11/23/15 15:06	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	193107	11/24/15 20:08	JXL	TAL PLS
Total/NA	Prep	3050B			192938	11/19/15 18:47	ASB	TAL PLS
Total/NA	Analysis	6010B		1	193116	11/23/15 22:17	SLK	TAL PLS
Total/NA	Prep	3050B			192938	11/19/15 18:47	ASB	TAL PLS
Total/NA	Analysis	6010B		4	193104	11/23/15 20:15	SLK	TAL PLS
Total/NA	Prep	7471A			192932	11/19/15 17:01	ASB	TAL PLS
Total/NA	Analysis	7471A		1	193087	11/23/15 16:14	SLK	TAL PLS

**Client Sample ID: B-4-1**

**Lab Sample ID: 720-68723-18**

**Date Collected: 11/18/15 11:30**

**Matrix: Solid**

**Date Received: 11/18/15 15:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			193142	11/24/15 13:17	JRM	TAL PLS
Total/NA	Analysis	8260B		1	193111	11/24/15 16:02	YB1	TAL PLS
Total/NA	Prep	3546			193042	11/23/15 10:18	KMK	TAL PLS
Total/NA	Analysis	8270C		20	193156	11/24/15 20:38	MQL	TAL PLS

TestAmerica Pleasanton

# Lab Chronicle

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

**Client Sample ID: B-4-1,-5,-10,-15**

**Lab Sample ID: 720-68723-22**

**Date Collected: 11/18/15 13:03**

**Matrix: Solid**

**Date Received: 11/18/15 15:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			193071	11/23/15 15:06	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	193107	11/24/15 22:34	JXL	TAL PLS
Total/NA	Prep	3050B			192938	11/19/15 18:47	ASB	TAL PLS
Total/NA	Analysis	6010B		4	193116	11/23/15 22:22	SLK	TAL PLS
Total/NA	Prep	3050B			192938	11/19/15 18:47	ASB	TAL PLS
Total/NA	Analysis	6010B		4	193104	11/23/15 20:20	SLK	TAL PLS
Total/NA	Prep	7471A			192932	11/19/15 17:01	ASB	TAL PLS
Total/NA	Analysis	7471A		1	193087	11/23/15 16:21	SLK	TAL PLS

## Laboratory References:

= Asbestos TEM Laboratories, Inc., 630 BANCROFT WAY, Berkeley, CA 94710

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

# Certification Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

## Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

Analysis Method	Prep Method	Matrix	Analyte
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- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

# Method Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PLS
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL PLS
8270C	Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7470A	Mercury (CVAA)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
CARB 435	General Sub Contract Method	NONE	

#### Protocol References:

NONE = NONE

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

= Asbestos TEM Laboratories, Inc., 630 BANCROFT WAY, Berkeley, CA 94710

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

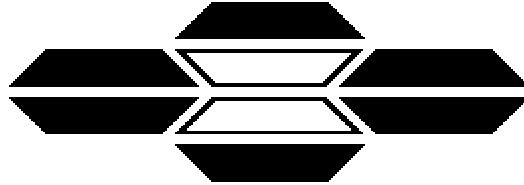


# Sample Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-68723-1	B-1-3	Solid	11/18/15 08:50	11/18/15 15:50
720-68723-3	B-1-13	Solid	11/18/15 10:05	11/18/15 15:50
720-68723-5	B-1-3,-7,-13,-20	Solid	11/18/15 10:00	11/18/15 15:50
720-68723-6	B-2-GW	Water	11/18/15 10:00	11/18/15 15:50
720-68723-7	B-3-GW	Water	11/18/15 12:25	11/18/15 15:50
720-68723-8	B-2-3	Solid	11/18/15 08:30	11/18/15 15:50
720-68723-10	B-2-15	Solid	11/18/15 09:19	11/18/15 15:50
720-68723-12	B-2-3,-7,-15,-18	Solid	11/18/15 09:27	11/18/15 15:50
720-68723-13	B-3-1	Solid	11/18/15 11:25	11/18/15 15:50
720-68723-16	B-3-15	Solid	11/18/15 11:56	11/18/15 15:50
720-68723-17	B-3-1,-7,-11,-15	Solid	11/18/15 11:56	11/18/15 15:50
720-68723-18	B-4-1	Solid	11/18/15 11:30	11/18/15 15:50
720-68723-22	B-4-1,-5,-10,-15	Solid	11/18/15 13:03	11/18/15 15:50



## **ASBESTOS TEM LABORATORIES, INC.**

### **CARB Method 435 Polarized Light Microscopy Analytical Report**

**Laboratory Job # 1283-00564**

630 Bancroft Way  
Berkeley, CA 94710  
(510) 704-8930  
FAX (510) 704-8429

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ASBESTOS TEM LABORATORIES, INC

CA DPH ELAP  
Lab No. 1866



NVLAP Lab Code: 101891-0  
Berkeley, CA

Nov/24/2015

Dimple Sharma  
TestAmerica Laboratories, Inc.  
1220 Quarry Lane  
Pleasanton, CA 94566

RE: LABORATORY JOB # 1283-00564  
Polarized light microscopy analytical results for 4 bulk sample(s).  
Job Site: 720-68723-1  
Job No.: Turner/UCSF Benioff

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with the California Air Resources Board (ARB) Method 435 for the determination of asbestos in serpentine aggregate samples.

Prior to analysis, samples are logged-in and all data pertinent to the sample recorded. The samples are checked for damage or disruption of any chain-of-custody seals. A unique laboratory ID number is assigned to each sample. A hard copy log-in sheet containing all pertinent information concerning the sample is generated. This and all other relevant paper work are kept with the sample throughout the analytical procedures to assure proper analysis.

Sample preparation follows a standard CARB 435 prep method. The entire sample is dried at 135-150 C and then crushed to ~3/8" gravel size using a Bico Chipmunk crusher. If the submitted sample is >1 pint, the sample was split using a 1/2" riffle splitter following ASTM Method C-702-98 to obtain a 1 pint aliquot. The entire 1 pint aliquot, or entire original sample, is then pulverized in a Bico Braun disc pulverizer calibrated to produce a nominal 200 mesh final product. If necessary, additional homogenization steps are undertaken using a 3/8" riffle splitter. Small aliquots are collected from throughout the pulverized material to create three separate microscope slide mounts containing the appropriate refractive index oil. The prepared slides are placed under a polarizing light microscope where standard mineralogical techniques are used to analyze the various materials present, including asbestos. If asbestos is identified and of less than 10% concentration by visual area estimate then an additional five sample mounts are prepared. Quantification of asbestos concentration is obtained using the standard CAL ARB Method 435 point count protocol. For samples observed to contain visible asbestos of less than 10% concentration, a point counting technique is used with 50 points counted on each of eight sample mounts for a total of 400 points. The data is then compiled into standard report format and subjected to a thorough quality assurance check before the information is released to the client.

While the CARB 435 method has much to commend it, there are a number of situations where it fails to provide sufficient accuracy to make a definitive determination of the presence/absence of asbestos and/or an accurate count of the asbestos concentration present in a given sample. These problems include, but are not limited to, 1) statistical uncertainty with samples containing <1% asbestos when too few particles are counted, 2) definitive identification and discrimination between various fibrous amphibole minerals such as tremolite/actinolite/hornblende and the "Libby amphiboles" such as tremolite/winchite/richterite/arfvedsonite, and C) small asbestiform fibers which are near or below the resolution limit of the PLM microscope such as those found in various California coast range serpentine bodies. In these cases, further analysis by transmission electron microscopy is recommended to obtain a more accurate result.

Sincerely Yours,

Lab Manager  
ASBESTOS TEM LABORATORIES, INC.

--- These results relate only to the samples tested and must not be reproduced, except in full, without the approval of the laboratory. ---

630 BANCROFT WAY • BERKELEY, CA 94710 • PH. (510) 704-8930 • FAX (510) 704-8429

With Branch Offices Located At: 1350 FREEPORT BLVD. UNIT 104, SPARKS, NV 89431

# POLARIZED LIGHT MICROSCOPY CARB 435 ANALYTICAL REPORT

Page: 1 of

Contact: Dimple Sharma	Samples Submitted: 4	Report No. <b>337712</b>
Address: TestAmerica Laboratories, Inc. 1220 Quarry Lane Pleasanton, CA 94566	Samples Analyzed: 4	Date Submitted: Nov-19-15
	Job Site / No. Turner/UCSF Benioff 720-68723-1	Date Reported: Nov-24-15

SAMPLE ID	POINTS COUNTED	ASBESTOS % TYPE	LOCATION / DESCRIPTION
<b>B-1-3,-7,-13,-20</b> Lab ID # 1283-00564-001	<b>400</b> - Total Points	<b>&lt;0.25% None Detected</b>	720-68723-5 No Asbestos Detected - ARB Exception I
<b>B-2-3,-7,-15,-28</b> Lab ID # 1283-00564-002	<b>400</b> - Total Points	<b>&lt;0.25% None Detected</b>	720-68723-12 No Asbestos Detected - ARB Exception I
<b>B-3-1,-7,-11,-15</b> Lab ID # 1283-00564-003	<b>400</b> - Total Points	<b>&lt;0.25% None Detected</b>	720-68723-17 No Asbestos Detected - ARB Exception I
<b>B-4-1,-5,-10,-15</b> Lab ID # 1283-00564-004	<b>400</b> - Total Points	<b>&lt;0.25% None Detected</b>	720-68723-22 No Asbestos Detected - ARB Exception I
Lab ID #	- Total Points		
Lab ID #	- Total Points		
Lab ID #	- Total Points		
Lab ID #	- Total Points		
Lab ID #	- Total Points		

QC Reviewer *R. Mc. B...*

Analyst *Jo Ann H...*



**TestAmerica Pleasanton**  
 1220 Quarry Lane  
 Pleasanton, CA 94566  
 Phone (925) 484-1919 Fax (925) 600-3002

**Chain of Custody Record**



**TestAmerica**  
 THE LEADER IN ENVIRONMENTAL TESTING

**Client Information (Sub Contract Lab)**

Company: **Acadestis TEM Laboratories, Inc.** Date Date Requested: **11/24/2015**

Address: **630 BANCROFT WAY, Berkeley, CA, 94710** Date Requested (days): **TAT**

City: **Berkeley** State: **CA** ZIP: **94710**

Phone: **PO #** W/O #:

Project Name: **Turner/UCSF Benioff** Project #: **72011476**

Site: **SSCQWA**

Lab Part: **Sharma, Dimple** Carrier/Testing Bags:

E-Mail: **dimple.sharma@testamerica.com**

ECOC No.: **720-26672-1**

Page: **Page 1 of 1**

**Analysis Requested**

Field Filtered Sample (Yes or No): **NO**

Perform MS/MSD (Yes or No): **SUB (CARB 435) CARB 435**

Preservation Codes: **720-68723-1**

Job #: **720-68723-1**

Page: **Page 1 of 1**

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C-Comp, G-grab)	Matrix (Metal, Soil, Organic, etc.)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note:
B-1-3,-7,-13,-20 (720-68723-5)	11/18/15	10:00	Pacific	Solid		X		1	
B-2-3,-7,-15,-18 (720-68723-12)	11/18/15	09:27	Pacific	Solid		X		1	
B-3-1,-7,-11,-15 (720-68723-17)	11/18/15	11:56	Pacific	Solid		X		1	
B-4-1,-5,-10,-15 (720-68723-22)	11/18/15	13:03	Pacific	Solid		X		1	

**Possible Hazard Identification**

Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client  Disposal By Lab  Archive For **Months**

Special Instructions/QC Requirements:

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_

Method of Shipment: \_\_\_\_\_

Relinquished by: **AM** Date/Time: **11/19** Company: **ATEM**

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Custody Seals Intact: **A Yes A No** Custody Seal No.: \_\_\_\_\_

Cooler Temperature(s) °C and Other Remarks:

# TestAmerica

720-68723

TESTAMERICA Pleasanton Chain of Custody  
 1220 Quarry Lane • Pleasanton CA 94566-4756  
 Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 15102

Date: 11/18/15 Page 2 of 3

11/25/2015

## Report To: JASON GRANT

Company: Nuvvo of Nuvve  
 Address: 1956 Webster St, Dublin  
 CA 94568  
 Phone: 510 343-3200  
 Sampled By: FM

Sample ID	Date	Time	Mat	Preserv
1 B-1-3	11/18/15	0845 S.	-	-
2 B-1-7	0940 S	-	-	-
3 B-1-13	1005 S	-	-	-
4 B-1-23	1010 S	-	-	-

Project Info	Sample Receipt	Analysis Request
Project Name: #	# of Containers:	
Head Space:	Temp: 15, 1.80c	
YIN:	YIN:	
10 Day	5 Day	4 Day
3 Day	2 Day	1 Day
Other:	Other:	
Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD <input type="checkbox"/> EDF	Special Instructions / Comments: <input type="checkbox"/> Global ID	
* Run Discrete Analysis First Then Composite with 100% for composite group for composites		
1) Relinquished by: [Signature] Time: 1510	2) Relinquished by: [Signature] Time: 1550	3) Relinquished by: [Signature] Time: [ ]
Signature: Forest McFarland	Signature: Sam Rempney	Signature: [ ]
Printed Name: Forest McFarland	Printed Name: Sam Rempney	Printed Name: [ ]
Date: 11/18/15	Date: 11/18/15	Date: [ ]
Company: Nuvvo of Nuvve	Company: TA	Company: [ ]
1) Received by: [Signature] Time: 1510	2) Received by: [Signature] Time: 1550	3) Received by: [Signature] Time: [ ]
Signature: [ ]	Signature: [ ]	Signature: [ ]
Printed Name: [ ]	Printed Name: [ ]	Printed Name: [ ]
Date: 11/18/15	Date: 11/18/15	Date: [ ]
Company: TA	Company: TA	Company: [ ]
Volatile Organics GC/MS (VOCs)	HVOCs by <input type="checkbox"/> EPA 8260B	EPA 8260B. <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> 5 Oxygenates <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethanol
<input checked="" type="checkbox"/> EPA 8260B	<input type="checkbox"/> EPA 8260B	TEPH EPA 8015B <input checked="" type="checkbox"/> Silica Gel <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Motor Oil <input type="checkbox"/> Other: [ ]
<input checked="" type="checkbox"/> EPA 8260B	<input checked="" type="checkbox"/> EPA 8270C	Semi-Volatile Organics GC/MS <input checked="" type="checkbox"/> EPA 8270C
<input checked="" type="checkbox"/> EPA 8260B	<input type="checkbox"/> EPA 8270C <input type="checkbox"/> EPA 8270C SIM	PNA/PAH's by <input type="checkbox"/> 8270C <input type="checkbox"/> 8270C SIM
<input checked="" type="checkbox"/> EPA 8260B	<input type="checkbox"/> EPA 8081 <input checked="" type="checkbox"/> EPA 8082	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664/9071) <input type="checkbox"/> Total
<input checked="" type="checkbox"/> EPA 8260B	<input checked="" type="checkbox"/> EPA 8081 <input checked="" type="checkbox"/> EPA 8082	Pesticides <input checked="" type="checkbox"/> EPA 8081 <input checked="" type="checkbox"/> EPA 8082
<input checked="" type="checkbox"/> EPA 8260B	<input checked="" type="checkbox"/> EPA 8081 <input checked="" type="checkbox"/> EPA 8082	CAM17 Metals (EPA 6010/7470/7471) <input checked="" type="checkbox"/> Metals
<input checked="" type="checkbox"/> EPA 8260B	<input type="checkbox"/> 6010B <input type="checkbox"/> 200.7 <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other: [ ]	Metals <input type="checkbox"/> 6010B <input type="checkbox"/> 200.7 <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other: [ ]
<input checked="" type="checkbox"/> EPA 8260B	<input type="checkbox"/> 6020 <input type="checkbox"/> 200.8 (ICP-MS)	Metals: <input type="checkbox"/> 6020 <input type="checkbox"/> 200.8 (ICP-MS)
<input checked="" type="checkbox"/> EPA 8260B	<input type="checkbox"/> W.E.T (STLC) <input type="checkbox"/> W.E.T (DI) <input type="checkbox"/> TCLP	<input type="checkbox"/> W.E.T (STLC) <input type="checkbox"/> W.E.T (DI) <input type="checkbox"/> TCLP
<input checked="" type="checkbox"/> EPA 8260B	Hex. Chrom by <input type="checkbox"/> EPA 7196 <input type="checkbox"/> or EPA 7199	Hex. Chrom by <input type="checkbox"/> EPA 7196 <input type="checkbox"/> or EPA 7199
<input checked="" type="checkbox"/> EPA 8260B	pH <input type="checkbox"/> 9040 <input type="checkbox"/> SM4500	pH <input type="checkbox"/> 9040 <input type="checkbox"/> SM4500
<input checked="" type="checkbox"/> EPA 8260B	<input type="checkbox"/> Spec. Cond <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> SS <input type="checkbox"/> TDS	<input type="checkbox"/> Spec. Cond <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> SS <input type="checkbox"/> TDS
<input checked="" type="checkbox"/> EPA 8260B	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO4 <input type="checkbox"/> NO3 <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO2 <input type="checkbox"/> PO4	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO4 <input type="checkbox"/> NO3 <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO2 <input type="checkbox"/> PO4
<input checked="" type="checkbox"/> EPA 8260B	<input type="checkbox"/> Perchlorate by EPA 314.0	<input type="checkbox"/> Perchlorate by EPA 314.0
<input checked="" type="checkbox"/> EPA 8260B	COD <input type="checkbox"/> EPA 410.4 <input type="checkbox"/> SM5220D <input type="checkbox"/> Turbidity	COD <input type="checkbox"/> EPA 410.4 <input type="checkbox"/> SM5220D <input type="checkbox"/> Turbidity
<input checked="" type="checkbox"/> EPA 8260B	Asbestos by CARB 435	Asbestos by CARB 435
<input checked="" type="checkbox"/> EPA 8260B	Number of Containers	Number of Containers



720-68723 Chain of Custody

Signature: [ ] Time: [ ]  
 Printed Name: [ ] Date: [ ]  
 Company: [ ]

Rev. 10/2012



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## 720-68723

TESTAMERICA Pleasanton Chain of Custody  
 1220 Quarry Lane • Pleasanton CA 94566-4756  
 Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 165102

Date 11/15/15 Page 2 of 3

Report To:

Analysis Request:

to: Jason Grant  
 Company: Ninyo & Moore  
 Address: 19516 Webster  
 Mail: Jason Grant  
 If To: 4026500  
 Sampled By: FAK  
 Phone: 510 343 3000

Sample ID	Date	Time	Mat.	Present
#B-2-3	11/18	0825	S	-
#B-2-7	11/18	0913	S	-
#B-2-15	11/18	0919	S	-
#B-2-17	11/18	0927	S	-
#B-3-1	11/18	1126	S	-
#B-3-7	11/18	1140	S	-
#B-3-11	11/18	1149	S	-
#B-3-15	11/18	1156	S	-

After laboratory analysis, the samples were analyzed and analyzed.

Project Info: **Sample Receipt**

Project Name: # of Containers: \_\_\_\_\_

Head Space: \_\_\_\_\_

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

credit Card V/N: \_\_\_\_\_

Other: STO

report:  Routine  Level 3  Level 4  EDD  EDF  
 special Instructions / Comments:  Global ID \_\_\_\_\_

Terms and Conditions on reverse

<input checked="" type="checkbox"/> Volatile Organics GC/MS (VOCs) EPA 8260B	<input type="checkbox"/> HVOCS by EPA 8260B
EPA 8260B: <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> 5 Oxygenates <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethanol	
TEPH EPA 8015B <input checked="" type="checkbox"/> Silica Gel <input checked="" type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other	
<input checked="" type="checkbox"/> SemiVolatile Organics GC/MS EPA 8270C	
PNA/PAH's by <input type="checkbox"/> 8270C <input type="checkbox"/> 8270C SIM	
Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664/9071) <input type="checkbox"/> Total	
Pesticides <input checked="" type="checkbox"/> EPA 8081 <input checked="" type="checkbox"/> PCBs	
CAM17 Metals <u>Tale 22 Metals</u> (EPA 6010/7470/7471)	
Metals: <input type="checkbox"/> 6010B <input type="checkbox"/> 200.7 <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other: _____	
Metals: <input type="checkbox"/> 6020 <input type="checkbox"/> 200.8 (ICP-MS): _____	
<input type="checkbox"/> W.E.T (STLC) <input type="checkbox"/> W.E.T (DI) <input type="checkbox"/> TCLP	
Hex Chrom by <input type="checkbox"/> EPA 7196 <input type="checkbox"/> or EPA 7199	
pH <input type="checkbox"/> 9040 <input type="checkbox"/> SM4500	
<input type="checkbox"/> Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> SS <input type="checkbox"/> TDS	
Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> PO <sub>4</sub>	
<input type="checkbox"/> Perchlorate by EPA 314.0	
COD <input type="checkbox"/> EPA 410.4 <input type="checkbox"/> SM6220D <input type="checkbox"/> Turbidity	
<u>Asbestos by CARB 435</u>	
Number of Containers	

1) Relinquished by: 25 Nov 2 0100  
 Signature: [Signature] Time: \_\_\_\_\_  
 Printed Name: Kenneth McFarland Date: 11/18/15  
 Company: Ninyo & Moore

2) Relinquished by: Sam Bumpers  
 Signature: [Signature] Time: 1550  
 Printed Name: Sam Bumpers Date: 11/18/15  
 Company: TTT

Received by: Sam Bumpers  
 Signature: [Signature] Time: 1550  
 Printed Name: Sam Bumpers Date: 11/18/15  
 Company: TTT

Received by: [Signature]  
 Signature: [Signature] Time: 1550  
 Printed Name: [Name] Date: 11/18/15  
 Company: TTT

Received by: [Signature]  
 Signature: [Signature] Time: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_  
 Company: \_\_\_\_\_

3) Relinquished by: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Time: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_  
 Company: \_\_\_\_\_

Received by: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Time: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_  
 Company: \_\_\_\_\_

Received by: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Time: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_  
 Company: \_\_\_\_\_

Received by: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Time: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_  
 Company: \_\_\_\_\_

Received by: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Time: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_  
 Company: \_\_\_\_\_

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## 720-68723

TESTAMERICA Pleasanton Chain of Custody  
 1220 Quarry Lane • Pleasanton CA 94566-4756  
 Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 165102

Date 11/8/15 Page 3 of 3

11/25/2015

### Report To

to: Jason Grant  
 Company: Ninyo & Moore  
 Address: 1976 Webster St  
 Mail: jgrant@ninyoandmoore.com  
 II To: 4-2654001  
 Phone: 910 343 9300

Sample ID	Date	Time	Met	Preserv	Analysis Request
B-4-1-7	11/8	1130	S	-	<input checked="" type="checkbox"/> Volatile Organics GC/MS (VOCs) EPA 8260B <input type="checkbox"/> HVOCS by EPA 8260B <input type="checkbox"/> EPA 8260B: <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> 5 Oxygenates <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethanol <input checked="" type="checkbox"/> TEPH EPA 8015B <input type="checkbox"/> Silica Gel <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Motor Oil <input type="checkbox"/> Other <input checked="" type="checkbox"/> SemiVolatile Organics GC/MS EPA 8270C <input type="checkbox"/> PNA/PAH's by <input type="checkbox"/> 8270C <input type="checkbox"/> 8270C SIM <input type="checkbox"/> Oil and Grease (EPA 1664/9071) <input type="checkbox"/> Petroleum <input type="checkbox"/> Total <input checked="" type="checkbox"/> Pesticides EPA 8081 <input checked="" type="checkbox"/> PCBs EPA 8082 <input checked="" type="checkbox"/> CAM17 Metals <u>Table 22 Metal</u> (EPA 6010/7470/7471) Metals: <input type="checkbox"/> 6010B <input type="checkbox"/> 200.7 <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other: Metals: <input type="checkbox"/> 6020 <input type="checkbox"/> 200.8 (ICP-MS) <input type="checkbox"/> W.E.T (STLC) <input type="checkbox"/> W.E.T (DI) <input type="checkbox"/> TCLP <input type="checkbox"/> Hex. Chrom by <input type="checkbox"/> EPA 7196 <input type="checkbox"/> or EPA 7199 pH <input type="checkbox"/> 9040 <input type="checkbox"/> SM4500 <input type="checkbox"/> Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> SS <input type="checkbox"/> TDS Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> PO <sub>4</sub> <input type="checkbox"/> Perchlorate by EPA 314.0 <input type="checkbox"/> COD <input type="checkbox"/> EPA 410.4 <input type="checkbox"/> SM5220D <input type="checkbox"/> Turbidity Asheton by <u>CARD 435</u>
B-4-1-5	11/8	1258	S	-	<input checked="" type="checkbox"/> Volatile Organics GC/MS (VOCs) EPA 8260B <input type="checkbox"/> HVOCS by EPA 8260B <input type="checkbox"/> EPA 8260B: <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> 5 Oxygenates <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethanol <input checked="" type="checkbox"/> TEPH EPA 8015B <input type="checkbox"/> Silica Gel <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Motor Oil <input type="checkbox"/> Other <input checked="" type="checkbox"/> SemiVolatile Organics GC/MS EPA 8270C <input type="checkbox"/> PNA/PAH's by <input type="checkbox"/> 8270C <input type="checkbox"/> 8270C SIM <input type="checkbox"/> Oil and Grease (EPA 1664/9071) <input type="checkbox"/> Petroleum <input type="checkbox"/> Total <input checked="" type="checkbox"/> Pesticides EPA 8081 <input checked="" type="checkbox"/> PCBs EPA 8082 <input checked="" type="checkbox"/> CAM17 Metals <u>Table 22 Metal</u> (EPA 6010/7470/7471) Metals: <input type="checkbox"/> 6010B <input type="checkbox"/> 200.7 <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other: Metals: <input type="checkbox"/> 6020 <input type="checkbox"/> 200.8 (ICP-MS) <input type="checkbox"/> W.E.T (STLC) <input type="checkbox"/> W.E.T (DI) <input type="checkbox"/> TCLP <input type="checkbox"/> Hex. Chrom by <input type="checkbox"/> EPA 7196 <input type="checkbox"/> or EPA 7199 pH <input type="checkbox"/> 9040 <input type="checkbox"/> SM4500 <input type="checkbox"/> Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> SS <input type="checkbox"/> TDS Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> PO <sub>4</sub> <input type="checkbox"/> Perchlorate by EPA 314.0 <input type="checkbox"/> COD <input type="checkbox"/> EPA 410.4 <input type="checkbox"/> SM5220D <input type="checkbox"/> Turbidity Asheton by <u>CARD 435</u>
B-4-1-10	11/8	1307	S	-	<input checked="" type="checkbox"/> Volatile Organics GC/MS (VOCs) EPA 8260B <input type="checkbox"/> HVOCS by EPA 8260B <input type="checkbox"/> EPA 8260B: <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> 5 Oxygenates <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethanol <input checked="" type="checkbox"/> TEPH EPA 8015B <input type="checkbox"/> Silica Gel <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Motor Oil <input type="checkbox"/> Other <input checked="" type="checkbox"/> SemiVolatile Organics GC/MS EPA 8270C <input type="checkbox"/> PNA/PAH's by <input type="checkbox"/> 8270C <input type="checkbox"/> 8270C SIM <input type="checkbox"/> Oil and Grease (EPA 1664/9071) <input type="checkbox"/> Petroleum <input type="checkbox"/> Total <input checked="" type="checkbox"/> Pesticides EPA 8081 <input checked="" type="checkbox"/> PCBs EPA 8082 <input checked="" type="checkbox"/> CAM17 Metals <u>Table 22 Metal</u> (EPA 6010/7470/7471) Metals: <input type="checkbox"/> 6010B <input type="checkbox"/> 200.7 <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other: Metals: <input type="checkbox"/> 6020 <input type="checkbox"/> 200.8 (ICP-MS) <input type="checkbox"/> W.E.T (STLC) <input type="checkbox"/> W.E.T (DI) <input type="checkbox"/> TCLP <input type="checkbox"/> Hex. Chrom by <input type="checkbox"/> EPA 7196 <input type="checkbox"/> or EPA 7199 pH <input type="checkbox"/> 9040 <input type="checkbox"/> SM4500 <input type="checkbox"/> Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> SS <input type="checkbox"/> TDS Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> PO <sub>4</sub> <input type="checkbox"/> Perchlorate by EPA 314.0 <input type="checkbox"/> COD <input type="checkbox"/> EPA 410.4 <input type="checkbox"/> SM5220D <input type="checkbox"/> Turbidity Asheton by <u>CARD 435</u>

### Project Info

Project Name: # of Containers:  
 Head Space:  
 Temp:

Y/N: If yes, please call with payment information ASAP

10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other: <u>STD</u>
--------	-------	-------	-------	-------	-------	-------------------

Report:  Routine  Level 3  Level 4  EDD  EDF  
 Special Instructions / Comments:  Global ID  
 \* After Discrete analysis, composite with a group for composite analysis  
 See Terms and Conditions on reverse

### 1) Relinquished by:

Signature: [Signature] Time: 11:30  
 Printed Name: Kevin McFarland Date: 11/8/15  
 Company: Ninyo & Moore

### 2) Relinquished by:

Signature: [Signature] Time: 1:50  
 Printed Name: Sam Brumby Date: 11/8/15  
 Company: TA

### 3) Received by:

Signature: \_\_\_\_\_ Time: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_  
 Company: \_\_\_\_\_

### 1) Received by:

Signature: [Signature] Time: 1:10  
 Printed Name: Sam Brumby Date: 11/8/15  
 Company: TA

### 2) Received by:

Signature: [Signature] Time: 1:55  
 Printed Name: Dennis Adams Date: 11/19/15  
 Company: TA

### 3) Received by:

Signature: \_\_\_\_\_ Time: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_  
 Company: \_\_\_\_\_

## Sharma, Dimple

---

**From:** Forrest McFarland <fmcfarland@ninyoandmoore.com>  
**Sent:** Thursday, November 19, 2015 4:28 PM  
**To:** Sharma, Dimple  
**Subject:** RE: COC UCSF

Thanks for this Dimple,

Yes, I'm happy you've caught this. The sample B-4-1 is the discrete sample for this group and it should be run for VOCs by 8260 and SVOCs by 8270, and should NOT be run for CA Title 22 metals. Please make these changes as indicated.

Please let me know if you have any other questions, and thanks again!

Forrest

Forrest McFarland P.G.  
Senior Project Geologist  
**Ninyo & Moore**  
Geotechnical & Environmental Sciences Consultants  
1956 Webster Street, Suite 400  
Oakland, California 94612  
(510) 343-3000 (x15213)  
(510) 343-3001 (fax)  
(510) 825-8358 Mobile  
[fmcfarland@ninyoandmoore.com](mailto:fmcfarland@ninyoandmoore.com)

New San Jose office  
2149 O'Toole Avenue, Suite 10  
San Jose, CA 95131  
(408) 435-9000  
(408) 435-9006 (Fax)



**Experience - Quality - Commitment**

**From:** Sharma, Dimple [mailto:Dimple.Sharma@testamericainc.com]  
**Sent:** Thursday, November 19, 2015 11:13 AM  
**To:** Forrest McFarland  
**Subject:** RE: COC UCSF

Hi Forrest,

Please see attached coc and please can you confirm the discreet analysis on page 3 of the coc.

Thanks.

*As we approach the upcoming Thanksgiving Holiday observed on Thursday, November 26<sup>th</sup>, we want you to know that FedEx and UPS will not have scheduled service on this day so please plan accordingly. Despite this logistic challenge please let us know how we can extend solutions to best support your analytical needs over this holiday period. Please note that if you have BODs that will be sampled on November 19th, 20th, 24th or 25th, or have short hold samples that will arrive on November 27th or 28th we ask that you communicate and make any necessary confirmed arrangements with your Project Manager in advance to ensure your samples meet all holding time criteria.*

*We are thankful for your business and hope that you have a wonderful and safe holiday.*

Dimple Sharma

Senior Project Manager

## Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-68723-1

**Login Number: 68723**

**List Number: 1**

**Creator: Bullock, Tracy**

**List Source: TestAmerica Pleasanton**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

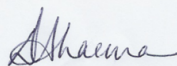
## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Pleasanton  
1220 Quarry Lane  
Pleasanton, CA 94566  
Tel: (925)484-1919

TestAmerica Job ID: 720-68723-2  
Client Project/Site: Turner/UCSF Benioff

For:  
Ninyo & Moore  
1956 Webster Street  
Suite 400  
Oakland, California 94612

Attn: Jason Grant



Authorized for release by:  
12/8/2015 8:57:25 AM

Dimple Sharma, Senior Project Manager  
(925)484-1919  
[dimple.sharma@testamericainc.com](mailto:dimple.sharma@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

1  
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12  
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# Definitions/Glossary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-2

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Case Narrative

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-2

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**Job ID: 720-68723-2**

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**Laboratory: TestAmerica Pleasanton**

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**Narrative**

**Job Narrative**  
**720-68723-2**

**Comments**

No additional comments.

**Receipt**

The samples were received on 11/18/2015 3:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.5° C and 1.8° C.

**Metals**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**General Chemistry**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

- 1
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# Detection Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-2

**Client Sample ID: B-4-1,-5,-10,-15**

**Lab Sample ID: 720-68723-22**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.62		0.050		mg/L	1		6010B	STLC Citrate

- 1
- 2
- 3
- 4
- 5
- 6
- 7
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- 9
- 10
- 11
- 12
- 13
- 14

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-2

**Client Sample ID: B-4-1,-5,-10,-15**

**Lab Sample ID: 720-68723-22**

**Date Collected: 11/18/15 13:03**

**Matrix: Solid**

**Date Received: 11/18/15 15:50**

**Method: 6010B - Metals (ICP) - STLC Citrate**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.62		0.050		mg/L		12/07/15 15:13	12/07/15 21:26	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-2

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 720-193709/1-A**  
**Matrix: Solid**  
**Analysis Batch: 193747**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 193709**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0050		mg/L		12/07/15 15:13	12/07/15 20:50	1

**Lab Sample ID: LCS 720-193709/2-A**  
**Matrix: Solid**  
**Analysis Batch: 193747**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 193709**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1.00	0.900		mg/L		90	80 - 120

**Lab Sample ID: LCSD 720-193709/3-A**  
**Matrix: Solid**  
**Analysis Batch: 193747**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total Recoverable**  
**Prep Batch: 193709**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Lead	1.00	0.900		mg/L		90	80 - 120	0	20

**Lab Sample ID: LB4 720-193387/1-B**  
**Matrix: Solid**  
**Analysis Batch: 193747**

**Client Sample ID: Method Blank**  
**Prep Type: STLC Citrate**  
**Prep Batch: 193709**

Analyte	LB4 Result	LB4 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.050		mg/L		12/07/15 15:13	12/07/15 20:55	1

**Lab Sample ID: 720-68723-22 MS**  
**Matrix: Solid**  
**Analysis Batch: 193747**

**Client Sample ID: B-4-1,-5,-10,-15**  
**Prep Type: STLC Citrate**  
**Prep Batch: 193709**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.62		10.0	8.93		mg/L		83	75 - 125

**Lab Sample ID: 720-68723-22 MSD**  
**Matrix: Solid**  
**Analysis Batch: 193747**

**Client Sample ID: B-4-1,-5,-10,-15**  
**Prep Type: STLC Citrate**  
**Prep Batch: 193709**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Lead	0.62		10.0	8.81		mg/L		82	75 - 125	1	20

# QC Association Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-2

## Metals

### Leach Batch: 193387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-22	B-4-1,-5,-10,-15	STLC Citrate	Solid	CA WET Citrate	
720-68723-22 MS	B-4-1,-5,-10,-15	STLC Citrate	Solid	CA WET Citrate	
720-68723-22 MSD	B-4-1,-5,-10,-15	STLC Citrate	Solid	CA WET Citrate	
LB4 720-193387/1-B	Method Blank	STLC Citrate	Solid	CA WET Citrate	

### Prep Batch: 193709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-22	B-4-1,-5,-10,-15	STLC Citrate	Solid	3005A	193387
720-68723-22 MS	B-4-1,-5,-10,-15	STLC Citrate	Solid	3005A	193387
720-68723-22 MSD	B-4-1,-5,-10,-15	STLC Citrate	Solid	3005A	193387
LB4 720-193387/1-B	Method Blank	STLC Citrate	Solid	3005A	193387
LCS 720-193709/2-A	Lab Control Sample	Total Recoverable	Solid	3005A	
LCSD 720-193709/3-A	Lab Control Sample Dup	Total Recoverable	Solid	3005A	
MB 720-193709/1-A	Method Blank	Total Recoverable	Solid	3005A	

### Analysis Batch: 193747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68723-22	B-4-1,-5,-10,-15	STLC Citrate	Solid	6010B	193709
720-68723-22 MS	B-4-1,-5,-10,-15	STLC Citrate	Solid	6010B	193709
720-68723-22 MSD	B-4-1,-5,-10,-15	STLC Citrate	Solid	6010B	193709
LB4 720-193387/1-B	Method Blank	STLC Citrate	Solid	6010B	193709
LCS 720-193709/2-A	Lab Control Sample	Total Recoverable	Solid	6010B	193709
LCSD 720-193709/3-A	Lab Control Sample Dup	Total Recoverable	Solid	6010B	193709
MB 720-193709/1-A	Method Blank	Total Recoverable	Solid	6010B	193709



# Lab Chronicle

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-2

**Client Sample ID: B-4-1,-5,-10,-15**

**Lab Sample ID: 720-68723-22**

**Date Collected: 11/18/15 13:03**

**Matrix: Solid**

**Date Received: 11/18/15 15:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			193387	12/05/15 13:10	MJD	TAL PLS
STLC Citrate	Prep	3005A			193709	12/07/15 15:13	EFH	TAL PLS
STLC Citrate	Analysis	6010B		1	193747	12/07/15 21:26	SLK	TAL PLS

#### Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

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# Certification Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-2

## Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16 *

Analysis Method	Prep Method	Matrix	Analyte
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\* Certification renewal pending - certification considered valid.



# Method Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-2

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Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS

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**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



# Sample Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68723-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-68723-22	B-4-1,-5,-10,-15	Solid	11/18/15 13:03	11/18/15 15:50

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Sharma, Dimple

720-68723-2

**From:** Jason Grant <jgrant@ninyoandmoore.com>  
**Sent:** Monday, November 30, 2015 4:31 PM  
**To:** Sharma, Dimple  
**Cc:** Forrest McFarland  
**Subject:** RE: TestAmerica EDD and report files from 720-68752-1 Turner/UCSF Benioff

Dimple,

Please analyze sample B-4-1,-5,-10,-15 for lead WET. Standard TAT.

Thanks,

Jason

Jason Grant, P.E.  
Senior Engineer  
**Ninyo & Moore**  
Geotechnical & Environmental Sciences Consultants  
1956 Webster Street, Suite 400  
Oakland, California 94612  
(510) 343-3000 (x15202)  
(510) 343-3001 (Fax)  
[jgrant@ninyoandmoore.com](mailto:jgrant@ninyoandmoore.com)

**San Jose office**  
2149 O'Toole Avenue, Suite 30  
San Jose, CA 95131  
(408) 435-9000  
(408) 435-9006 (Fax)



720-68723 Chain of Custody

---

**From:** Sharma, Dimple [mailto:dimple.sharma@testamericainc.com]  
**Sent:** Monday, November 30, 2015 9:31 AM  
**To:** Forrest McFarland; Jason Grant  
**Subject:** TestAmerica EDD and report files from 720-68752-1 Turner/UCSF Benioff

Hello,

Attached please find the EDD and report files for job 720-68752-1; Turner/UCSF Benioff

Please feel free to contact me if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: [Project Feedback](#)

**DIMPLE SHARMA**  
Senior Project Manager

TestAmerica Pleasanton  
THE LEADER IN ENVIRONMENTAL TESTING

# Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-68723-2

**Login Number: 68723**

**List Number: 1**

**Creator: Bullock, Tracy**

**List Source: TestAmerica Pleasanton**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

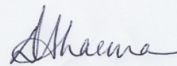
## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Pleasanton  
1220 Quarry Lane  
Pleasanton, CA 94566  
Tel: (925)484-1919

TestAmerica Job ID: 720-68750-1  
Client Project/Site: Turner/UCSF Benioff

For:  
Ninyo & Moore  
1956 Webster Street  
Suite 400  
Oakland, California 94612

Attn: Jason Grant



Authorized for release by:  
11/30/2015 9:20:31 AM

Dimple Sharma, Senior Project Manager  
(925)484-1919  
[dimple.sharma@testamericainc.com](mailto:dimple.sharma@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Definitions/Glossary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68750-1

## Qualifiers

### GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Case Narrative

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68750-1

**Job ID: 720-68750-1**

**Laboratory: TestAmerica Pleasanton**

## Narrative

### Job Narrative 720-68750-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 11/19/2015 4:51 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4° C.

#### GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### GC/MS Semi VOA

Method 8270C: The following samples was diluted due to color: SP-1D (720-68750-4). Elevated reporting limits (RL) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### GC Semi VOA

Method 8015B: The following sample required a dilution due to the nature of the sample matrix: SP-1A,-1B,-1C,-1D (720-68750-5). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082: The following sample required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: SP-1A,-1B,-1C,-1D (720-68750-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Detection Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68750-1

**Client Sample ID: SP-1D**

**Lab Sample ID: 720-68750-4**

No Detections.

**Client Sample ID: SP-1A,-1B,-1C,-1D**

**Lab Sample ID: 720-68750-5**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	170		9.8		mg/Kg	10		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	870		490		mg/Kg	10		8015B	Silica Gel Cleanup
4,4'-DDT	9.0		4.0		ug/Kg	2		8081A	Total/NA
Arsenic	5.7		3.7		mg/Kg	4		6010B	Total/NA
Barium	130		0.46		mg/Kg	1		6010B	Total/NA
Beryllium	0.43		0.37		mg/Kg	4		6010B	Total/NA
Cadmium	0.32		0.12		mg/Kg	1		6010B	Total/NA
Chromium	38		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	12		0.74		mg/Kg	4		6010B	Total/NA
Copper	20		5.6		mg/Kg	4		6010B	Total/NA
Lead	8.4		1.9		mg/Kg	4		6010B	Total/NA
Molybdenum	0.50		0.46		mg/Kg	1		6010B	Total/NA
Nickel	49		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	29		1.9		mg/Kg	4		6010B	Total/NA
Zinc	58		5.6		mg/Kg	4		6010B	Total/NA
Mercury	0.15		0.0098		mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68750-1

**Client Sample ID: SP-1D**

**Date Collected: 11/19/15 14:00**

**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68750-4**

**Matrix: Solid**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
Acetone	ND		50		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
Benzene	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
Dichlorobromomethane	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
Bromobenzene	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
Chlorobromomethane	ND		20		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
Bromoform	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
Bromomethane	ND		9.9		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
2-Butanone (MEK)	ND		50		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
n-Butylbenzene	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
sec-Butylbenzene	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
tert-Butylbenzene	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
Carbon disulfide	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
Carbon tetrachloride	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
Chlorobenzene	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
Chloroethane	ND		9.9		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
Chloroform	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
Chloromethane	ND		9.9		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
2-Chlorotoluene	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
4-Chlorotoluene	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
Chlorodibromomethane	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
1,3-Dichloropropane	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
1,1-Dichloropropane	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
1,2-Dibromo-3-Chloropropane	ND		9.9		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
Ethylene Dibromide	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
Dibromomethane	ND		9.9		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
1,1-Dichloroethane	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
1,2-Dichloroethane	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
1,1-Dichloroethene	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
1,2-Dichloropropane	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
Ethylbenzene	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
Hexachlorobutadiene	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
2-Hexanone	ND		50		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
Isopropylbenzene	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
4-Isopropyltoluene	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
Methylene Chloride	ND		9.9		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
Naphthalene	ND		9.9		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
N-Propylbenzene	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
Styrene	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68750-1

**Client Sample ID: SP-1D**

**Lab Sample ID: 720-68750-4**

**Date Collected: 11/19/15 14:00**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
Tetrachloroethene	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
Toluene	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
Trichloroethene	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
Trichlorofluoromethane	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
Vinyl acetate	ND		20		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
Vinyl chloride	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
Xylenes, Total	ND		9.9		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
2,2-Dichloropropane	ND		5.0		ug/Kg		11/24/15 13:17	11/24/15 16:31	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		11/24/15 13:17	11/24/15 16:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	84		45 - 131	11/24/15 13:17	11/24/15 16:31	1
1,2-Dichloroethane-d4 (Surr)	105		60 - 140	11/24/15 13:17	11/24/15 16:31	1
Toluene-d8 (Surr)	95		58 - 140	11/24/15 13:17	11/24/15 16:31	1

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Bis(2-chloroethyl)ether	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
2-Chlorophenol	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
1,3-Dichlorobenzene	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
1,4-Dichlorobenzene	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Benzyl alcohol	ND		0.34		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
1,2-Dichlorobenzene	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
2-Methylphenol	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Methylphenol, 3 & 4	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
N-Nitrosodi-n-propylamine	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Hexachloroethane	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Nitrobenzene	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Isophorone	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
2-Nitrophenol	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
2,4-Dimethylphenol	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Bis(2-chloroethoxy)methane	ND		0.34		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
2,4-Dichlorophenol	ND		0.66		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
1,2,4-Trichlorobenzene	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Naphthalene	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
4-Chloroaniline	ND		0.34		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Hexachlorobutadiene	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
4-Chloro-3-methylphenol	ND		0.34		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
2-Methylnaphthalene	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2

TestAmerica Pleasanton



# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68750-1

**Client Sample ID: SP-1D**

**Lab Sample ID: 720-68750-4**

**Date Collected: 11/19/15 14:00**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

**Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.34		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
2,4,6-Trichlorophenol	ND		0.34		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
2,4,5-Trichlorophenol	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
2-Chloronaphthalene	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
2-Nitroaniline	ND		0.66		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Dimethyl phthalate	ND		0.34		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Acenaphthylene	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
3-Nitroaniline	ND		0.34		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Acenaphthene	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
2,4-Dinitrophenol	ND		1.3		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
4-Nitrophenol	ND		0.66		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Dibenzofuran	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
2,4-Dinitrotoluene	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
2,6-Dinitrotoluene	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Diethyl phthalate	ND		0.34		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
4-Chlorophenyl phenyl ether	ND		0.34		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Fluorene	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
4-Nitroaniline	ND		0.66		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
2-Methyl-4,6-dinitrophenol	ND		0.66		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
N-Nitrosodiphenylamine	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
4-Bromophenyl phenyl ether	ND		0.34		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Hexachlorobenzene	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Pentachlorophenol	ND		0.66		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Phenanthrene	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Anthracene	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Di-n-butyl phthalate	ND		0.34		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Fluoranthene	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Pyrene	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Butyl benzyl phthalate	ND		0.34		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
3,3'-Dichlorobenzidine	ND		0.34		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Benzo[a]anthracene	ND		0.66		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Bis(2-ethylhexyl) phthalate	ND		0.66		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Chrysene	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Di-n-octyl phthalate	ND		0.34		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Benzo[b]fluoranthene	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Benzo[a]pyrene	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Benzo[k]fluoranthene	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Indeno[1,2,3-cd]pyrene	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Benzo[g,h,i]perylene	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Benzoic acid	ND		0.66		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Azobenzene	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2
Dibenz(a,h)anthracene	ND		0.13		mg/Kg		11/24/15 13:09	11/25/15 23:47	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	63		21 - 98	11/24/15 13:09	11/25/15 23:47	2
2-Fluorobiphenyl	85		30 - 112	11/24/15 13:09	11/25/15 23:47	2
Terphenyl-d14	89		32 - 117	11/24/15 13:09	11/25/15 23:47	2
2-Fluorophenol	67		28 - 98	11/24/15 13:09	11/25/15 23:47	2
Phenol-d5	70		23 - 101	11/24/15 13:09	11/25/15 23:47	2
2,4,6-Tribromophenol	86		37 - 114	11/24/15 13:09	11/25/15 23:47	2

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68750-1

**Client Sample ID: SP-1A,-1B,-1C,-1D**

**Lab Sample ID: 720-68750-5**

**Date Collected: 11/19/15 14:00**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

### Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	170		9.8		mg/Kg		11/24/15 13:14	11/25/15 18:40	10
Motor Oil Range Organics [C24-C36]	870		490		mg/Kg		11/24/15 13:14	11/25/15 18:40	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 1				11/24/15 13:14	11/25/15 18:40	10
p-Terphenyl	0	X D	38 - 148				11/24/15 13:14	11/25/15 18:40	10

### Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.0		ug/Kg		11/24/15 09:43	11/25/15 08:01	2
Dieldrin	ND		4.0		ug/Kg		11/24/15 09:43	11/25/15 08:01	2
Endrin aldehyde	ND		4.0		ug/Kg		11/24/15 09:43	11/25/15 08:01	2
Endrin	ND		4.0		ug/Kg		11/24/15 09:43	11/25/15 08:01	2
Endrin ketone	ND		4.0		ug/Kg		11/24/15 09:43	11/25/15 08:01	2
Heptachlor	ND		4.0		ug/Kg		11/24/15 09:43	11/25/15 08:01	2
Heptachlor epoxide	ND		4.0		ug/Kg		11/24/15 09:43	11/25/15 08:01	2
4,4'-DDT	9.0		4.0		ug/Kg		11/24/15 09:43	11/25/15 08:01	2
4,4'-DDE	ND		4.0		ug/Kg		11/24/15 09:43	11/25/15 08:01	2
4,4'-DDD	ND		4.0		ug/Kg		11/24/15 09:43	11/25/15 08:01	2
Endosulfan I	ND		4.0		ug/Kg		11/24/15 09:43	11/25/15 08:01	2
Endosulfan II	ND		4.0		ug/Kg		11/24/15 09:43	11/25/15 08:01	2
alpha-BHC	ND		4.0		ug/Kg		11/24/15 09:43	11/25/15 08:01	2
beta-BHC	ND		4.0		ug/Kg		11/24/15 09:43	11/25/15 08:01	2
gamma-BHC (Lindane)	ND		4.0		ug/Kg		11/24/15 09:43	11/25/15 08:01	2
delta-BHC	ND		4.0		ug/Kg		11/24/15 09:43	11/25/15 08:01	2
Endosulfan sulfate	ND		4.0		ug/Kg		11/24/15 09:43	11/25/15 08:01	2
Methoxychlor	ND		4.0		ug/Kg		11/24/15 09:43	11/25/15 08:01	2
Toxaphene	ND		79		ug/Kg		11/24/15 09:43	11/25/15 08:01	2
Chlordane (technical)	ND		79		ug/Kg		11/24/15 09:43	11/25/15 08:01	2
alpha-Chlordane	ND		4.0		ug/Kg		11/24/15 09:43	11/25/15 08:01	2
gamma-Chlordane	ND		4.0		ug/Kg		11/24/15 09:43	11/25/15 08:01	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	121		57 - 122				11/24/15 09:43	11/25/15 08:01	2
DCB Decachlorobiphenyl	132		21 - 136				11/24/15 09:43	11/25/15 08:01	2

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		11/24/15 09:54	11/25/15 01:03	1
PCB-1221	ND		49		ug/Kg		11/24/15 09:54	11/25/15 01:03	1
PCB-1232	ND		49		ug/Kg		11/24/15 09:54	11/25/15 01:03	1
PCB-1242	ND		49		ug/Kg		11/24/15 09:54	11/25/15 01:03	1
PCB-1248	ND		49		ug/Kg		11/24/15 09:54	11/25/15 01:03	1
PCB-1254	ND		49		ug/Kg		11/24/15 09:54	11/25/15 01:03	1
PCB-1260	ND		49		ug/Kg		11/24/15 09:54	11/25/15 01:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	94		45 - 132				11/24/15 09:54	11/25/15 01:03	1
DCB Decachlorobiphenyl	81		42 - 146				11/24/15 09:54	11/25/15 01:03	1

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
 Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68750-1

**Client Sample ID: SP-1A,-1B,-1C,-1D**

**Lab Sample ID: 720-68750-5**

**Date Collected: 11/19/15 14:00**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.46		mg/Kg		11/23/15 14:53	11/27/15 12:37	1
<b>Arsenic</b>	<b>5.7</b>		3.7		mg/Kg		11/23/15 14:53	11/25/15 18:12	4
<b>Barium</b>	<b>130</b>		0.46		mg/Kg		11/23/15 14:53	11/27/15 12:37	1
<b>Beryllium</b>	<b>0.43</b>		0.37		mg/Kg		11/23/15 14:53	11/25/15 18:12	4
<b>Cadmium</b>	<b>0.32</b>		0.12		mg/Kg		11/23/15 14:53	11/27/15 12:37	1
<b>Chromium</b>	<b>38</b>		1.9		mg/Kg		11/23/15 14:53	11/25/15 18:12	4
<b>Cobalt</b>	<b>12</b>		0.74		mg/Kg		11/23/15 14:53	11/25/15 18:12	4
<b>Copper</b>	<b>20</b>		5.6		mg/Kg		11/23/15 14:53	11/25/15 18:12	4
<b>Lead</b>	<b>8.4</b>		1.9		mg/Kg		11/23/15 14:53	11/25/15 18:12	4
<b>Molybdenum</b>	<b>0.50</b>		0.46		mg/Kg		11/23/15 14:53	11/27/15 12:37	1
<b>Nickel</b>	<b>49</b>		1.9		mg/Kg		11/23/15 14:53	11/25/15 18:12	4
Selenium	ND		0.93		mg/Kg		11/23/15 14:53	11/27/15 12:37	1
Silver	ND		0.23		mg/Kg		11/23/15 14:53	11/27/15 12:37	1
Thallium	ND		0.46		mg/Kg		11/23/15 14:53	11/27/15 12:37	1
<b>Vanadium</b>	<b>29</b>		1.9		mg/Kg		11/23/15 14:53	11/25/15 18:12	4
<b>Zinc</b>	<b>58</b>		5.6		mg/Kg		11/23/15 14:53	11/25/15 18:12	4

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.15</b>		0.0098		mg/Kg		11/23/15 15:06	11/25/15 15:30	1

# Surrogate Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68750-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (45-131)	12DCE (60-140)	TOL (58-140)
720-68750-4	SP-1D	84	105	95
LCS 720-193111/5	Lab Control Sample	96	96	96
LCS 720-193111/7	Lab Control Sample	96	102	100
LCSD 720-193111/6	Lab Control Sample Dup	98	95	97
LCSD 720-193111/8	Lab Control Sample Dup	98	100	98
MB 720-193111/4	Method Blank	93	99	95

#### Surrogate Legend

BFB = 4-Bromofluorobenzene  
12DCE = 1,2-Dichloroethane-d4 (Surr)  
TOL = Toluene-d8 (Surr)

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	NBZ (21-98)	FBP (30-112)	TPH (32-117)	2FP (28-98)	PHL (23-101)	TBP (37-114)
720-68750-4	SP-1D	63	85	89	67	70	86
LCS 720-193152/2-A	Lab Control Sample	73	85	93	83	81	96
MB 720-193152/1-A	Method Blank	64	85	88	73	74	96

#### Surrogate Legend

NBZ = Nitrobenzene-d5  
FBP = 2-Fluorobiphenyl  
TPH = Terphenyl-d14  
2FP = 2-Fluorophenol  
PHL = Phenol-d5  
TBP = 2,4,6-Tribromophenol

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Silica Gel Cleanup

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	NDA1 (0-1)	PTP1 (38-148)
720-68750-5	SP-1A,-1B,-1C,-1D	0	0 X D
LCS 720-193153/2-A	Lab Control Sample		95
MB 720-193153/1-A	Method Blank	0	103

#### Surrogate Legend

NDA = Capric Acid (Surr)  
PTP = p-Terphenyl

# Surrogate Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68750-1

## Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX2 (57-122)	DCB1 (21-136)
720-68750-5	SP-1A,-1B,-1C,-1D	121	132
LCS 720-193126/2-A	Lab Control Sample	105	127
MB 720-193126/1-A	Method Blank	104	116

#### Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (45-132)	DCB1 (42-146)
720-68750-5	SP-1A,-1B,-1C,-1D	94	81
LCS 720-193128/2-A	Lab Control Sample	92	95
MB 720-193128/1-A	Method Blank	89	95

#### Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

# QC Sample Results

Client: Ninyo & Moore  
 Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68750-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 720-193111/4**

**Matrix: Solid**

**Analysis Batch: 193111**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			11/24/15 09:13	1
Acetone	ND		50		ug/Kg			11/24/15 09:13	1
Benzene	ND		5.0		ug/Kg			11/24/15 09:13	1
Dichlorobromomethane	ND		5.0		ug/Kg			11/24/15 09:13	1
Bromobenzene	ND		5.0		ug/Kg			11/24/15 09:13	1
Chlorobromomethane	ND		20		ug/Kg			11/24/15 09:13	1
Bromoform	ND		5.0		ug/Kg			11/24/15 09:13	1
Bromomethane	ND		10		ug/Kg			11/24/15 09:13	1
2-Butanone (MEK)	ND		50		ug/Kg			11/24/15 09:13	1
n-Butylbenzene	ND		5.0		ug/Kg			11/24/15 09:13	1
sec-Butylbenzene	ND		5.0		ug/Kg			11/24/15 09:13	1
tert-Butylbenzene	ND		5.0		ug/Kg			11/24/15 09:13	1
Carbon disulfide	ND		5.0		ug/Kg			11/24/15 09:13	1
Carbon tetrachloride	ND		5.0		ug/Kg			11/24/15 09:13	1
Chlorobenzene	ND		5.0		ug/Kg			11/24/15 09:13	1
Chloroethane	ND		10		ug/Kg			11/24/15 09:13	1
Chloroform	ND		5.0		ug/Kg			11/24/15 09:13	1
Chloromethane	ND		10		ug/Kg			11/24/15 09:13	1
2-Chlorotoluene	ND		5.0		ug/Kg			11/24/15 09:13	1
4-Chlorotoluene	ND		5.0		ug/Kg			11/24/15 09:13	1
Chlorodibromomethane	ND		5.0		ug/Kg			11/24/15 09:13	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			11/24/15 09:13	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			11/24/15 09:13	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			11/24/15 09:13	1
1,3-Dichloropropane	ND		5.0		ug/Kg			11/24/15 09:13	1
1,1-Dichloropropene	ND		5.0		ug/Kg			11/24/15 09:13	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg			11/24/15 09:13	1
Ethylene Dibromide	ND		5.0		ug/Kg			11/24/15 09:13	1
Dibromomethane	ND		10		ug/Kg			11/24/15 09:13	1
Dichlorodifluoromethane	ND		10		ug/Kg			11/24/15 09:13	1
1,1-Dichloroethane	ND		5.0		ug/Kg			11/24/15 09:13	1
1,2-Dichloroethane	ND		5.0		ug/Kg			11/24/15 09:13	1
1,1-Dichloroethene	ND		5.0		ug/Kg			11/24/15 09:13	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			11/24/15 09:13	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			11/24/15 09:13	1
1,2-Dichloropropane	ND		5.0		ug/Kg			11/24/15 09:13	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			11/24/15 09:13	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			11/24/15 09:13	1
Ethylbenzene	ND		5.0		ug/Kg			11/24/15 09:13	1
Hexachlorobutadiene	ND		5.0		ug/Kg			11/24/15 09:13	1
2-Hexanone	ND		50		ug/Kg			11/24/15 09:13	1
Isopropylbenzene	ND		5.0		ug/Kg			11/24/15 09:13	1
4-Isopropyltoluene	ND		5.0		ug/Kg			11/24/15 09:13	1
Methylene Chloride	ND		10		ug/Kg			11/24/15 09:13	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			11/24/15 09:13	1
Naphthalene	ND		10		ug/Kg			11/24/15 09:13	1
N-Propylbenzene	ND		5.0		ug/Kg			11/24/15 09:13	1
Styrene	ND		5.0		ug/Kg			11/24/15 09:13	1

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68750-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 720-193111/4**  
**Matrix: Solid**  
**Analysis Batch: 193111**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			11/24/15 09:13	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			11/24/15 09:13	1
Tetrachloroethene	ND		5.0		ug/Kg			11/24/15 09:13	1
Toluene	ND		5.0		ug/Kg			11/24/15 09:13	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			11/24/15 09:13	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			11/24/15 09:13	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			11/24/15 09:13	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			11/24/15 09:13	1
Trichloroethene	ND		5.0		ug/Kg			11/24/15 09:13	1
Trichlorofluoromethane	ND		5.0		ug/Kg			11/24/15 09:13	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			11/24/15 09:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			11/24/15 09:13	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			11/24/15 09:13	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			11/24/15 09:13	1
Vinyl acetate	ND		20		ug/Kg			11/24/15 09:13	1
Vinyl chloride	ND		5.0		ug/Kg			11/24/15 09:13	1
Xylenes, Total	ND		10		ug/Kg			11/24/15 09:13	1
2,2-Dichloropropane	ND		5.0		ug/Kg			11/24/15 09:13	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			11/24/15 09:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		45 - 131		11/24/15 09:13	1
1,2-Dichloroethane-d4 (Surr)	99		60 - 140		11/24/15 09:13	1
Toluene-d8 (Surr)	95		58 - 140		11/24/15 09:13	1

**Lab Sample ID: LCS 720-193111/5**  
**Matrix: Solid**  
**Analysis Batch: 193111**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	55.6		ug/Kg		111	70 - 144
Acetone	250	283		ug/Kg		113	30 - 162
Benzene	50.0	51.1		ug/Kg		102	70 - 130
Dichlorobromomethane	50.0	55.1		ug/Kg		110	70 - 140
Bromobenzene	50.0	50.3		ug/Kg		101	70 - 130
Chlorobromomethane	50.0	55.7		ug/Kg		111	70 - 130
Bromoform	50.0	60.3		ug/Kg		121	59 - 158
Bromomethane	50.0	57.6		ug/Kg		115	59 - 132
2-Butanone (MEK)	250	267		ug/Kg		107	53 - 133
n-Butylbenzene	50.0	51.2		ug/Kg		102	70 - 142
sec-Butylbenzene	50.0	50.7		ug/Kg		101	70 - 136
tert-Butylbenzene	50.0	50.5		ug/Kg		101	70 - 130
Carbon disulfide	50.0	48.4		ug/Kg		97	60 - 140
Carbon tetrachloride	50.0	52.0		ug/Kg		104	70 - 142
Chlorobenzene	50.0	52.9		ug/Kg		106	70 - 130
Chloroethane	50.0	54.8		ug/Kg		110	65 - 130
Chloroform	50.0	52.3		ug/Kg		105	77 - 127

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68750-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-193111/5

Matrix: Solid

Analysis Batch: 193111

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	56.2		ug/Kg		112	55 - 140
2-Chlorotoluene	50.0	49.1		ug/Kg		98	70 - 138
4-Chlorotoluene	50.0	49.2		ug/Kg		98	70 - 136
Chlorodibromomethane	50.0	58.3		ug/Kg		117	70 - 146
1,2-Dichlorobenzene	50.0	51.1		ug/Kg		102	70 - 130
1,3-Dichlorobenzene	50.0	50.8		ug/Kg		102	70 - 131
1,4-Dichlorobenzene	50.0	52.3		ug/Kg		105	70 - 130
1,3-Dichloropropane	50.0	54.5		ug/Kg		109	70 - 140
1,1-Dichloropropene	50.0	50.6		ug/Kg		101	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	54.7		ug/Kg		109	60 - 145
Ethylene Dibromide	50.0	54.6		ug/Kg		109	70 - 140
Dibromomethane	50.0	54.6		ug/Kg		109	70 - 139
Dichlorodifluoromethane	50.0	51.7		ug/Kg		103	37 - 158
1,1-Dichloroethane	50.0	51.9		ug/Kg		104	70 - 130
1,2-Dichloroethane	50.0	51.6		ug/Kg		103	70 - 130
1,1-Dichloroethene	50.0	46.7		ug/Kg		93	74 - 122
cis-1,2-Dichloroethene	50.0	52.6		ug/Kg		105	70 - 138
trans-1,2-Dichloroethene	50.0	50.9		ug/Kg		102	67 - 130
1,2-Dichloropropane	50.0	52.9		ug/Kg		106	73 - 127
cis-1,3-Dichloropropene	50.0	54.5		ug/Kg		109	68 - 147
trans-1,3-Dichloropropene	50.0	58.2		ug/Kg		116	70 - 155
Ethylbenzene	50.0	52.1		ug/Kg		104	80 - 137
Hexachlorobutadiene	50.0	47.1		ug/Kg		94	70 - 132
2-Hexanone	250	270		ug/Kg		108	44 - 133
Isopropylbenzene	50.0	52.8		ug/Kg		106	70 - 130
4-Isopropyltoluene	50.0	52.1		ug/Kg		104	70 - 133
Methylene Chloride	50.0	51.4		ug/Kg		103	70 - 134
4-Methyl-2-pentanone (MIBK)	250	262		ug/Kg		105	60 - 160
Naphthalene	50.0	51.6		ug/Kg		103	60 - 147
N-Propylbenzene	50.0	51.9		ug/Kg		104	70 - 130
Styrene	50.0	52.5		ug/Kg		105	70 - 130
1,1,1,2-Tetrachloroethane	50.0	53.7		ug/Kg		107	70 - 130
1,1,1,2,2-Tetrachloroethane	50.0	52.7		ug/Kg		105	70 - 146
Tetrachloroethene	50.0	51.8		ug/Kg		104	70 - 132
Toluene	50.0	49.9		ug/Kg		100	75 - 120
1,2,3-Trichlorobenzene	50.0	52.1		ug/Kg		104	60 - 140
1,2,4-Trichlorobenzene	50.0	51.5		ug/Kg		103	60 - 140
1,1,1-Trichloroethane	50.0	51.4		ug/Kg		103	70 - 130
1,1,2-Trichloroethane	50.0	54.8		ug/Kg		110	70 - 130
Trichloroethene	50.0	53.8		ug/Kg		108	70 - 133
Trichlorofluoromethane	50.0	52.3		ug/Kg		105	60 - 140
1,2,3-Trichloropropane	50.0	53.2		ug/Kg		106	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.5		ug/Kg		99	60 - 140
1,2,4-Trimethylbenzene	50.0	52.2		ug/Kg		104	70 - 130
1,3,5-Trimethylbenzene	50.0	50.5		ug/Kg		101	70 - 131
Vinyl acetate	50.0	53.3		ug/Kg		107	38 - 176
Vinyl chloride	50.0	61.7		ug/Kg		123	58 - 125

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68750-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 720-193111/5**  
**Matrix: Solid**  
**Analysis Batch: 193111**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	50.0	51.0		ug/Kg		102	70 - 146
o-Xylene	50.0	51.9		ug/Kg		104	70 - 140
2,2-Dichloropropane	50.0	50.0		ug/Kg		100	70 - 162

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	96		45 - 131
1,2-Dichloroethane-d4 (Surr)	96		60 - 140
Toluene-d8 (Surr)	96		58 - 140

**Lab Sample ID: LCS 720-193111/7**  
**Matrix: Solid**  
**Analysis Batch: 193111**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1060		ug/Kg		106	61 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	96		45 - 131
1,2-Dichloroethane-d4 (Surr)	102		60 - 140
Toluene-d8 (Surr)	100		58 - 140

**Lab Sample ID: LCSD 720-193111/6**  
**Matrix: Solid**  
**Analysis Batch: 193111**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	61.8		ug/Kg		124	70 - 144	11	20
Acetone	250	331		ug/Kg		132	30 - 162	16	30
Benzene	50.0	54.8		ug/Kg		110	70 - 130	7	20
Dichlorobromomethane	50.0	60.1		ug/Kg		120	70 - 140	9	20
Bromobenzene	50.0	52.8		ug/Kg		106	70 - 130	5	20
Chlorobromomethane	50.0	59.8		ug/Kg		120	70 - 130	7	20
Bromoform	50.0	65.8		ug/Kg		132	59 - 158	9	20
Bromomethane	50.0	59.0		ug/Kg		118	59 - 132	2	20
2-Butanone (MEK)	250	288		ug/Kg		115	53 - 133	8	20
n-Butylbenzene	50.0	52.8		ug/Kg		106	70 - 142	3	20
sec-Butylbenzene	50.0	52.1		ug/Kg		104	70 - 136	3	20
tert-Butylbenzene	50.0	51.3		ug/Kg		103	70 - 130	2	20
Carbon disulfide	50.0	51.2		ug/Kg		102	60 - 140	6	20
Carbon tetrachloride	50.0	54.1		ug/Kg		108	70 - 142	4	20
Chlorobenzene	50.0	55.9		ug/Kg		112	70 - 130	5	20
Chloroethane	50.0	56.3		ug/Kg		113	65 - 130	3	20
Chloroform	50.0	56.0		ug/Kg		112	77 - 127	7	20
Chloromethane	50.0	56.7		ug/Kg		113	55 - 140	1	20
2-Chlorotoluene	50.0	51.3		ug/Kg		103	70 - 138	4	20
4-Chlorotoluene	50.0	51.6		ug/Kg		103	70 - 136	5	20
Chlorodibromomethane	50.0	64.8		ug/Kg		130	70 - 146	11	20

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68750-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-193111/6

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 193111

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	50.0	54.4		ug/Kg		109	70 - 130	6	20
1,3-Dichlorobenzene	50.0	53.4		ug/Kg		107	70 - 131	5	20
1,4-Dichlorobenzene	50.0	54.9		ug/Kg		110	70 - 130	5	20
1,3-Dichloropropane	50.0	60.2		ug/Kg		120	70 - 140	10	20
1,1-Dichloropropene	50.0	53.2		ug/Kg		106	70 - 130	5	20
1,2-Dibromo-3-Chloropropane	50.0	58.7		ug/Kg		117	60 - 145	7	20
Ethylene Dibromide	50.0	60.7		ug/Kg		121	70 - 140	11	20
Dibromomethane	50.0	59.4		ug/Kg		119	70 - 139	9	20
Dichlorodifluoromethane	50.0	50.5		ug/Kg		101	37 - 158	2	20
1,1-Dichloroethane	50.0	56.2		ug/Kg		112	70 - 130	8	20
1,2-Dichloroethane	50.0	56.5		ug/Kg		113	70 - 130	9	20
1,1-Dichloroethene	50.0	49.2		ug/Kg		98	74 - 122	5	20
cis-1,2-Dichloroethene	50.0	57.0		ug/Kg		114	70 - 138	8	20
trans-1,2-Dichloroethene	50.0	54.9		ug/Kg		110	67 - 130	8	20
1,2-Dichloropropane	50.0	57.3		ug/Kg		115	73 - 127	8	20
cis-1,3-Dichloropropene	50.0	60.1		ug/Kg		120	68 - 147	10	20
trans-1,3-Dichloropropene	50.0	64.0		ug/Kg		128	70 - 155	10	20
Ethylbenzene	50.0	54.4		ug/Kg		109	80 - 137	4	20
Hexachlorobutadiene	50.0	47.2		ug/Kg		94	70 - 132	0	20
2-Hexanone	250	292		ug/Kg		117	44 - 133	8	20
Isopropylbenzene	50.0	55.1		ug/Kg		110	70 - 130	4	20
4-Isopropyltoluene	50.0	53.6		ug/Kg		107	70 - 133	3	20
Methylene Chloride	50.0	56.2		ug/Kg		112	70 - 134	9	20
4-Methyl-2-pentanone (MIBK)	250	286		ug/Kg		115	60 - 160	9	20
Naphthalene	50.0	55.0		ug/Kg		110	60 - 147	6	20
N-Propylbenzene	50.0	53.8		ug/Kg		108	70 - 130	4	20
Styrene	50.0	56.4		ug/Kg		113	70 - 130	7	20
1,1,1,2-Tetrachloroethane	50.0	56.8		ug/Kg		114	70 - 130	6	20
1,1,2,2-Tetrachloroethane	50.0	56.2		ug/Kg		112	70 - 146	6	20
Tetrachloroethene	50.0	54.6		ug/Kg		109	70 - 132	5	20
Toluene	50.0	52.1		ug/Kg		104	75 - 120	4	20
1,2,3-Trichlorobenzene	50.0	56.1		ug/Kg		112	60 - 140	7	20
1,2,4-Trichlorobenzene	50.0	54.4		ug/Kg		109	60 - 140	5	20
1,1,1-Trichloroethane	50.0	54.5		ug/Kg		109	70 - 130	6	20
1,1,2-Trichloroethane	50.0	62.8		ug/Kg		126	70 - 130	13	20
Trichloroethene	50.0	56.4		ug/Kg		113	70 - 133	5	20
Trichlorofluoromethane	50.0	53.2		ug/Kg		106	60 - 140	2	20
1,2,3-Trichloropropane	50.0	56.7		ug/Kg		113	70 - 146	6	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.1		ug/Kg		106	60 - 140	7	20
1,2,4-Trimethylbenzene	50.0	54.4		ug/Kg		109	70 - 130	4	20
1,3,5-Trimethylbenzene	50.0	52.4		ug/Kg		105	70 - 131	4	20
Vinyl acetate	50.0	55.7		ug/Kg		111	38 - 176	4	20
Vinyl chloride	50.0	61.2		ug/Kg		122	58 - 125	1	20
m-Xylene & p-Xylene	50.0	53.3		ug/Kg		107	70 - 146	4	20
o-Xylene	50.0	55.2		ug/Kg		110	70 - 140	6	20
2,2-Dichloropropane	50.0	53.3		ug/Kg		107	70 - 162	6	20

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68750-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 720-193111/6**  
**Matrix: Solid**  
**Analysis Batch: 193111**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	98		45 - 131
1,2-Dichloroethane-d4 (Surr)	95		60 - 140
Toluene-d8 (Surr)	97		58 - 140

**Lab Sample ID: LCSD 720-193111/8**  
**Matrix: Solid**  
**Analysis Batch: 193111**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
		Result	Qualifier						
Gasoline Range Organics (GRO) -C5-C12	1000	1030		ug/Kg		103	61 - 128	3	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	98		45 - 131
1,2-Dichloroethane-d4 (Surr)	100		60 - 140
Toluene-d8 (Surr)	98		58 - 140

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

**Lab Sample ID: MB 720-193152/1-A**  
**Matrix: Solid**  
**Analysis Batch: 193205**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 193152**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Bis(2-chloroethyl)ether	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
2-Chlorophenol	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
1,3-Dichlorobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
1,4-Dichlorobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Benzyl alcohol	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
1,2-Dichlorobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
2-Methylphenol	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Methylphenol, 3 & 4	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
N-Nitrosodi-n-propylamine	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Hexachloroethane	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Nitrobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Isophorone	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
2-Nitrophenol	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
2,4-Dimethylphenol	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Bis(2-chloroethoxy)methane	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
2,4-Dichlorophenol	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
1,2,4-Trichlorobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Naphthalene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
4-Chloroaniline	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Hexachlorobutadiene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
4-Chloro-3-methylphenol	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
2-Methylnaphthalene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Hexachlorocyclopentadiene	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 14:42	1

TestAmerica Pleasanton

# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68750-1

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

**Lab Sample ID: MB 720-193152/1-A**

**Matrix: Solid**

**Analysis Batch: 193205**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 193152**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
2,4,5-Trichlorophenol	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
2-Chloronaphthalene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
2-Nitroaniline	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Dimethyl phthalate	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Acenaphthylene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
3-Nitroaniline	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Acenaphthene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
2,4-Dinitrophenol	ND		0.66		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
4-Nitrophenol	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Dibenzofuran	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
2,4-Dinitrotoluene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
2,6-Dinitrotoluene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Diethyl phthalate	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
4-Chlorophenyl phenyl ether	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Fluorene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
4-Nitroaniline	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
2-Methyl-4,6-dinitrophenol	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
N-Nitrosodiphenylamine	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
4-Bromophenyl phenyl ether	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Hexachlorobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Pentachlorophenol	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Phenanthrene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Anthracene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Di-n-butyl phthalate	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Fluoranthene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Pyrene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Butyl benzyl phthalate	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
3,3'-Dichlorobenzidine	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Benzo[a]anthracene	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Bis(2-ethylhexyl) phthalate	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Chrysene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Di-n-octyl phthalate	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Benzo[b]fluoranthene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Benzo[a]pyrene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Benzo[k]fluoranthene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Indeno[1,2,3-cd]pyrene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Benzo[g,h,i]perylene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Benzoic acid	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Azobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Dibenz(a,h)anthracene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	64		21 - 98	11/24/15 13:09	11/25/15 14:42	1
2-Fluorobiphenyl	85		30 - 112	11/24/15 13:09	11/25/15 14:42	1
Terphenyl-d14	88		32 - 117	11/24/15 13:09	11/25/15 14:42	1

TestAmerica Pleasanton

# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68750-1

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

**Lab Sample ID: MB 720-193152/1-A**  
**Matrix: Solid**  
**Analysis Batch: 193205**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 193152**

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorophenol	73		28 - 98	11/24/15 13:09	11/25/15 14:42	1
Phenol-d5	74		23 - 101	11/24/15 13:09	11/25/15 14:42	1
2,4,6-Tribromophenol	96		37 - 114	11/24/15 13:09	11/25/15 14:42	1

**Lab Sample ID: LCS 720-193152/2-A**  
**Matrix: Solid**  
**Analysis Batch: 193205**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 193152**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.10		mg/Kg		83	48 - 115
Bis(2-chloroethyl)ether	1.33	1.06		mg/Kg		79	45 - 115
2-Chlorophenol	1.33	1.17		mg/Kg		88	48 - 115
1,3-Dichlorobenzene	1.33	1.05		mg/Kg		79	41 - 115
1,4-Dichlorobenzene	1.33	1.08		mg/Kg		81	40 - 115
Benzyl alcohol	1.33	1.20		mg/Kg		90	51 - 115
1,2-Dichlorobenzene	1.33	1.08		mg/Kg		81	44 - 115
2-Methylphenol	1.33	1.13		mg/Kg		85	54 - 115
Methylphenol, 3 & 4	1.33	1.18		mg/Kg		89	42 - 115
N-Nitrosodi-n-propylamine	1.33	1.13		mg/Kg		85	46 - 115
Hexachloroethane	1.33	1.11		mg/Kg		83	44 - 115
Nitrobenzene	1.33	1.09		mg/Kg		82	48 - 115
Isophorone	1.33	1.12		mg/Kg		84	54 - 115
2-Nitrophenol	1.33	1.18		mg/Kg		88	48 - 115
2,4-Dimethylphenol	1.33	1.18		mg/Kg		89	52 - 115
Bis(2-chloroethoxy)methane	1.33	1.11		mg/Kg		83	46 - 115
2,4-Dichlorophenol	1.33	1.18		mg/Kg		88	49 - 100
1,2,4-Trichlorobenzene	1.33	1.12		mg/Kg		84	47 - 115
Naphthalene	1.33	1.17		mg/Kg		88	44 - 115
4-Chloroaniline	1.33	0.740		mg/Kg		55	30 - 115
Hexachlorobutadiene	1.33	1.12		mg/Kg		84	44 - 115
4-Chloro-3-methylphenol	1.33	1.19		mg/Kg		89	58 - 115
2-Methylnaphthalene	1.33	1.07		mg/Kg		80	49 - 115
Hexachlorocyclopentadiene	1.33	0.853		mg/Kg		64	42 - 132
2,4,6-Trichlorophenol	1.33	1.20		mg/Kg		90	45 - 115
2,4,5-Trichlorophenol	1.33	1.23		mg/Kg		92	48 - 115
2-Chloronaphthalene	1.33	1.16		mg/Kg		87	52 - 115
2-Nitroaniline	1.33	1.20		mg/Kg		90	54 - 115
Dimethyl phthalate	1.33	1.21		mg/Kg		91	64 - 119
Acenaphthylene	1.33	1.18		mg/Kg		89	61 - 129
3-Nitroaniline	1.33	1.02		mg/Kg		77	50 - 115
Acenaphthene	1.33	1.21		mg/Kg		91	50 - 115
2,4-Dinitrophenol	2.67	2.36		mg/Kg		89	15 - 115
4-Nitrophenol	2.67	2.77		mg/Kg		104	54 - 125
Dibenzofuran	1.33	1.18		mg/Kg		88	55 - 115
2,4-Dinitrotoluene	1.33	1.26		mg/Kg		95	57 - 115
2,6-Dinitrotoluene	1.33	1.20		mg/Kg		90	54 - 119
Diethyl phthalate	1.33	1.27		mg/Kg		95	49 - 117

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68750-1

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: LCS 720-193152/2-A

Matrix: Solid

Analysis Batch: 193205

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 193152

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
4-Chlorophenyl phenyl ether	1.33	1.24		mg/Kg		93	57 - 115
Fluorene	1.33	1.21		mg/Kg		91	54 - 115
4-Nitroaniline	1.33	1.35		mg/Kg		101	59 - 115
2-Methyl-4,6-dinitrophenol	2.67	2.56		mg/Kg		96	39 - 115
N-Nitrosodiphenylamine	2.28	2.19		mg/Kg		96	56 - 115
4-Bromophenyl phenyl ether	1.33	1.20		mg/Kg		90	53 - 115
Hexachlorobenzene	1.33	1.20		mg/Kg		90	55 - 115
Pentachlorophenol	2.67	2.46		mg/Kg		92	35 - 115
Phenanthrene	1.33	1.27		mg/Kg		95	54 - 115
Anthracene	1.33	1.24		mg/Kg		93	55 - 115
Di-n-butyl phthalate	1.33	1.25		mg/Kg		94	55 - 115
Fluoranthene	1.33	1.27		mg/Kg		95	52 - 130
Pyrene	1.33	1.28		mg/Kg		96	48 - 115
Butyl benzyl phthalate	1.33	1.28		mg/Kg		96	53 - 115
3,3'-Dichlorobenzidine	1.33	1.07		mg/Kg		80	42 - 115
Benzo[a]anthracene	1.33	1.24		mg/Kg		93	55 - 115
Bis(2-ethylhexyl) phthalate	1.33	1.30		mg/Kg		97	53 - 115
Chrysene	1.33	1.27		mg/Kg		95	58 - 115
Di-n-octyl phthalate	1.33	1.29		mg/Kg		97	53 - 115
Benzo[b]fluoranthene	1.33	1.28		mg/Kg		96	50 - 119
Benzo[a]pyrene	1.33	1.24		mg/Kg		93	57 - 122
Benzo[k]fluoranthene	1.33	1.22		mg/Kg		92	55 - 120
Indeno[1,2,3-cd]pyrene	1.33	1.28		mg/Kg		96	56 - 115
Benzo[g,h,i]perylene	1.33	1.29		mg/Kg		97	56 - 115
Benzoic acid	1.33	1.20		mg/Kg		90	10 - 115
Azobenzene	1.33	1.28		mg/Kg		96	52 - 115
Dibenz(a,h)anthracene	1.33	1.29		mg/Kg		96	57 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	73		21 - 98
2-Fluorobiphenyl	85		30 - 112
Terphenyl-d14	93		32 - 117
2-Fluorophenol	83		28 - 98
Phenol-d5	81		23 - 101
2,4,6-Tribromophenol	96		37 - 114

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-193153/1-A

Matrix: Solid

Analysis Batch: 193108

Client Sample ID: Method Blank

Prep Type: Silica Gel Cleanup

Prep Batch: 193153

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		11/24/15 13:14	11/25/15 00:11	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		11/24/15 13:14	11/25/15 00:11	1

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68750-1

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: MB 720-193153/1-A**  
**Matrix: Solid**  
**Analysis Batch: 193108**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 193153**

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 1	11/24/15 13:14	11/25/15 00:11	1
p-Terphenyl	103		38 - 148	11/24/15 13:14	11/25/15 00:11	1

**Lab Sample ID: LCS 720-193153/2-A**  
**Matrix: Solid**  
**Analysis Batch: 193108**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 193153**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	83.3	59.6		mg/Kg		71	36 - 112

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	95		38 - 148

## Method: 8081A - Organochlorine Pesticides (GC)

**Lab Sample ID: MB 720-193126/1-A**  
**Matrix: Solid**  
**Analysis Batch: 193186**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 193126**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
Dieldrin	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
Endrin aldehyde	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
Endrin	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
Endrin ketone	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
Heptachlor	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
Heptachlor epoxide	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
4,4'-DDT	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
4,4'-DDE	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
4,4'-DDD	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
Endosulfan I	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
Endosulfan II	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
alpha-BHC	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
beta-BHC	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
delta-BHC	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
Endosulfan sulfate	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
Methoxychlor	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
Toxaphene	ND		40		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
Chlordane (technical)	ND		40		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
alpha-Chlordane	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
gamma-Chlordane	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	104		57 - 122	11/24/15 09:43	11/25/15 03:55	1
DCB Decachlorobiphenyl	116		21 - 136	11/24/15 09:43	11/25/15 03:55	1

TestAmerica Pleasanton

# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68750-1

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: LCS 720-193126/2-A**  
**Matrix: Solid**  
**Analysis Batch: 193186**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 193126**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aldrin	16.7	17.7		ug/Kg		106	65 - 120
Dieldrin	16.7	18.9		ug/Kg		114	72 - 120
Endrin aldehyde	16.7	19.5		ug/Kg		117	68 - 120
Endrin	16.7	18.4		ug/Kg		111	68 - 120
Endrin ketone	16.7	19.8		ug/Kg		119	84 - 133
Heptachlor	16.7	18.4		ug/Kg		110	69 - 120
Heptachlor epoxide	16.7	18.9		ug/Kg		113	68 - 120
4,4'-DDT	16.7	18.5		ug/Kg		111	63 - 127
4,4'-DDE	16.7	19.7		ug/Kg		118	84 - 126
4,4'-DDD	16.7	20.7		ug/Kg		124	85 - 128
Endosulfan I	16.7	18.6		ug/Kg		111	62 - 120
Endosulfan II	16.7	19.4		ug/Kg		116	65 - 120
alpha-BHC	16.7	17.2		ug/Kg		103	62 - 120
beta-BHC	16.7	18.4		ug/Kg		111	74 - 124
gamma-BHC (Lindane)	16.7	17.7		ug/Kg		106	72 - 120
delta-BHC	16.7	14.4		ug/Kg		86	43 - 125
Endosulfan sulfate	16.7	18.2		ug/Kg		109	84 - 126
Methoxychlor	16.7	21.9		ug/Kg		131	71 - 132
alpha-Chlordane	16.7	19.1		ug/Kg		114	70 - 120
gamma-Chlordane	16.7	18.9		ug/Kg		113	68 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	105		57 - 122
DCB Decachlorobiphenyl	127		21 - 136

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 720-193128/1-A**  
**Matrix: Solid**  
**Analysis Batch: 193109**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 193128**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		11/24/15 09:54	11/25/15 00:29	1
PCB-1221	ND		50		ug/Kg		11/24/15 09:54	11/25/15 00:29	1
PCB-1232	ND		50		ug/Kg		11/24/15 09:54	11/25/15 00:29	1
PCB-1242	ND		50		ug/Kg		11/24/15 09:54	11/25/15 00:29	1
PCB-1248	ND		50		ug/Kg		11/24/15 09:54	11/25/15 00:29	1
PCB-1254	ND		50		ug/Kg		11/24/15 09:54	11/25/15 00:29	1
PCB-1260	ND		50		ug/Kg		11/24/15 09:54	11/25/15 00:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	89		45 - 132	11/24/15 09:54	11/25/15 00:29	1
DCB Decachlorobiphenyl	95		42 - 146	11/24/15 09:54	11/25/15 00:29	1

TestAmerica Pleasanton

# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68750-1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID:** LCS 720-193128/2-A  
**Matrix:** Solid  
**Analysis Batch:** 193109

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 193128

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	133	121		ug/Kg		91	65 - 121
PCB-1260	133	120		ug/Kg		90	68 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	92		45 - 132
DCB Decachlorobiphenyl	95		42 - 146

## Method: 6010B - Metals (ICP)

**Lab Sample ID:** MB 720-193069/1-A  
**Matrix:** Solid  
**Analysis Batch:** 193244

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 193069

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		11/23/15 14:53	11/25/15 17:08	1
Arsenic	ND		1.0		mg/Kg		11/23/15 14:53	11/25/15 17:08	1
Beryllium	ND		0.10		mg/Kg		11/23/15 14:53	11/25/15 17:08	1
Cadmium	ND		0.13		mg/Kg		11/23/15 14:53	11/25/15 17:08	1
Chromium	ND		0.50		mg/Kg		11/23/15 14:53	11/25/15 17:08	1
Cobalt	ND		0.20		mg/Kg		11/23/15 14:53	11/25/15 17:08	1
Copper	ND		1.5		mg/Kg		11/23/15 14:53	11/25/15 17:08	1
Lead	ND		0.50		mg/Kg		11/23/15 14:53	11/25/15 17:08	1
Nickel	ND		0.50		mg/Kg		11/23/15 14:53	11/25/15 17:08	1
Selenium	ND		1.0		mg/Kg		11/23/15 14:53	11/25/15 17:08	1
Silver	ND		0.25		mg/Kg		11/23/15 14:53	11/25/15 17:08	1
Thallium	ND		0.50		mg/Kg		11/23/15 14:53	11/25/15 17:08	1
Vanadium	ND		0.50		mg/Kg		11/23/15 14:53	11/25/15 17:08	1
Zinc	ND		1.5		mg/Kg		11/23/15 14:53	11/25/15 17:08	1

**Lab Sample ID:** MB 720-193069/1-A  
**Matrix:** Solid  
**Analysis Batch:** 193280

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 193069

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		0.50		mg/Kg		11/23/15 14:53	11/27/15 11:34	1
Molybdenum	ND		0.50		mg/Kg		11/23/15 14:53	11/27/15 11:34	1

**Lab Sample ID:** LCS 720-193069/2-A  
**Matrix:** Solid  
**Analysis Batch:** 193244

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 193069

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	45.8		mg/Kg		92	80 - 120
Arsenic	50.0	46.1		mg/Kg		92	80 - 120
Beryllium	50.0	43.2		mg/Kg		86	80 - 120
Cadmium	50.0	48.6		mg/Kg		97	80 - 120
Chromium	50.0	45.3		mg/Kg		91	80 - 120
Cobalt	50.0	48.1		mg/Kg		96	80 - 120

TestAmerica Pleasanton

# QC Sample Results

Client: Ninyo & Moore  
 Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68750-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LCS 720-193069/2-A**  
**Matrix: Solid**  
**Analysis Batch: 193244**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 193069**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	50.0	45.4		mg/Kg		91	80 - 120
Lead	50.0	48.5		mg/Kg		97	80 - 120
Nickel	50.0	48.9		mg/Kg		98	80 - 120
Selenium	50.0	46.3		mg/Kg		93	80 - 120
Silver	25.0	24.3		mg/Kg		97	80 - 120
Thallium	50.0	48.7		mg/Kg		97	80 - 120
Vanadium	50.0	46.8		mg/Kg		94	80 - 120
Zinc	50.0	49.4		mg/Kg		99	80 - 120

**Lab Sample ID: LCS 720-193069/2-A**  
**Matrix: Solid**  
**Analysis Batch: 193280**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 193069**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	50.0	46.7		mg/Kg		93	80 - 120
Molybdenum	50.0	48.8		mg/Kg		98	80 - 120

**Lab Sample ID: LCSD 720-193069/3-A**  
**Matrix: Solid**  
**Analysis Batch: 193244**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 193069**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	50.0	46.6		mg/Kg		93	80 - 120	2	20
Arsenic	50.0	46.6		mg/Kg		93	80 - 120	1	20
Beryllium	50.0	45.3		mg/Kg		91	80 - 120	5	20
Cadmium	50.0	49.1		mg/Kg		98	80 - 120	1	20
Chromium	50.0	46.0		mg/Kg		92	80 - 120	1	20
Cobalt	50.0	48.7		mg/Kg		97	80 - 120	1	20
Copper	50.0	46.1		mg/Kg		92	80 - 120	1	20
Lead	50.0	49.1		mg/Kg		98	80 - 120	1	20
Nickel	50.0	49.4		mg/Kg		99	80 - 120	1	20
Selenium	50.0	47.2		mg/Kg		94	80 - 120	2	20
Silver	25.0	24.6		mg/Kg		98	80 - 120	1	20
Thallium	50.0	49.1		mg/Kg		98	80 - 120	1	20
Vanadium	50.0	47.6		mg/Kg		95	80 - 120	2	20
Zinc	50.0	49.9		mg/Kg		100	80 - 120	1	20

**Lab Sample ID: LCSD 720-193069/3-A**  
**Matrix: Solid**  
**Analysis Batch: 193280**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 193069**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	50.0	45.0		mg/Kg		90	80 - 120	4	20
Molybdenum	50.0	48.3		mg/Kg		97	80 - 120	1	20

TestAmerica Pleasanton

# QC Sample Results

Client: Ninyo & Moore  
 Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68750-1

## Method: 7471A - Mercury (CVAA)

**Lab Sample ID: MB 720-193072/1-A**  
**Matrix: Solid**  
**Analysis Batch: 193236**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 193072**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		11/23/15 15:06	11/25/15 14:49	1

**Lab Sample ID: LCS 720-193072/2-A**  
**Matrix: Solid**  
**Analysis Batch: 193236**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 193072**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.833	0.867		mg/Kg		104	80 - 120

**Lab Sample ID: LCSD 720-193072/3-A**  
**Matrix: Solid**  
**Analysis Batch: 193236**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 193072**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.833	0.858		mg/Kg		103	80 - 120	1	20

# QC Association Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68750-1

## GC/MS VOA

### Analysis Batch: 193111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68750-4	SP-1D	Total/NA	Solid	8260B	193142
LCS 720-193111/5	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-193111/7	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-193111/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCS 720-193111/8	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-193111/4	Method Blank	Total/NA	Solid	8260B	

### Prep Batch: 193142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68750-4	SP-1D	Total/NA	Solid	5030B	

## GC/MS Semi VOA

### Prep Batch: 193152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68750-4	SP-1D	Total/NA	Solid	3546	
LCS 720-193152/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 720-193152/1-A	Method Blank	Total/NA	Solid	3546	

### Analysis Batch: 193205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68750-4	SP-1D	Total/NA	Solid	8270C	193152
LCS 720-193152/2-A	Lab Control Sample	Total/NA	Solid	8270C	193152
MB 720-193152/1-A	Method Blank	Total/NA	Solid	8270C	193152

## GC Semi VOA

### Analysis Batch: 193108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-193153/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	193153
MB 720-193153/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	193153

### Analysis Batch: 193109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-193128/2-A	Lab Control Sample	Total/NA	Solid	8082	193128
MB 720-193128/1-A	Method Blank	Total/NA	Solid	8082	193128

### Analysis Batch: 193110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68750-5	SP-1A,-1B,-1C,-1D	Total/NA	Solid	8082	193128

### Prep Batch: 193126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68750-5	SP-1A,-1B,-1C,-1D	Total/NA	Solid	3546	
LCS 720-193126/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 720-193126/1-A	Method Blank	Total/NA	Solid	3546	

### Prep Batch: 193128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68750-5	SP-1A,-1B,-1C,-1D	Total/NA	Solid	3546	

TestAmerica Pleasanton

# QC Association Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68750-1

## GC Semi VOA (Continued)

### Prep Batch: 193128 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-193128/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 720-193128/1-A	Method Blank	Total/NA	Solid	3546	

### Prep Batch: 193153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68750-5	SP-1A,-1B,-1C,-1D	Silica Gel Cleanup	Solid	3546	
LCS 720-193153/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
MB 720-193153/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

### Analysis Batch: 193186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68750-5	SP-1A,-1B,-1C,-1D	Total/NA	Solid	8081A	193126
LCS 720-193126/2-A	Lab Control Sample	Total/NA	Solid	8081A	193126
MB 720-193126/1-A	Method Blank	Total/NA	Solid	8081A	193126

### Analysis Batch: 193189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68750-5	SP-1A,-1B,-1C,-1D	Silica Gel Cleanup	Solid	8015B	193153

## Metals

### Prep Batch: 193069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68750-5	SP-1A,-1B,-1C,-1D	Total/NA	Solid	3050B	
LCS 720-193069/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-193069/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 720-193069/1-A	Method Blank	Total/NA	Solid	3050B	

### Prep Batch: 193072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68750-5	SP-1A,-1B,-1C,-1D	Total/NA	Solid	7471A	
LCS 720-193072/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-193072/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-193072/1-A	Method Blank	Total/NA	Solid	7471A	

### Analysis Batch: 193236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68750-5	SP-1A,-1B,-1C,-1D	Total/NA	Solid	7471A	193072
LCS 720-193072/2-A	Lab Control Sample	Total/NA	Solid	7471A	193072
LCSD 720-193072/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	193072
MB 720-193072/1-A	Method Blank	Total/NA	Solid	7471A	193072

### Analysis Batch: 193244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68750-5	SP-1A,-1B,-1C,-1D	Total/NA	Solid	6010B	193069
LCS 720-193069/2-A	Lab Control Sample	Total/NA	Solid	6010B	193069
LCSD 720-193069/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	193069
MB 720-193069/1-A	Method Blank	Total/NA	Solid	6010B	193069

TestAmerica Pleasanton



# QC Association Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68750-1

## Metals (Continued)

### Analysis Batch: 193280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68750-5	SP-1A,-1B,-1C,-1D	Total/NA	Solid	6010B	193069
LCS 720-193069/2-A	Lab Control Sample	Total/NA	Solid	6010B	193069
LCSD 720-193069/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	193069
MB 720-193069/1-A	Method Blank	Total/NA	Solid	6010B	193069

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# Lab Chronicle

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68750-1

**Client Sample ID: SP-1D**

**Date Collected: 11/19/15 14:00**

**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68750-4**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			193142	11/24/15 13:17	JRM	TAL PLS
Total/NA	Analysis	8260B		1	193111	11/24/15 16:31	YB1	TAL PLS
Total/NA	Prep	3546			193152	11/24/15 13:09	DFR	TAL PLS
Total/NA	Analysis	8270C		2	193205	11/25/15 23:47	MQL	TAL PLS

**Client Sample ID: SP-1A,-1B,-1C,-1D**

**Date Collected: 11/19/15 14:00**

**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68750-5**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			193153	11/24/15 13:14	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	193189	11/25/15 18:40	DCH	TAL PLS
Total/NA	Prep	3546			193126	11/24/15 09:43	DFR	TAL PLS
Total/NA	Analysis	8081A		2	193186	11/25/15 08:01	MQL	TAL PLS
Total/NA	Prep	3546			193128	11/24/15 09:54	DFR	TAL PLS
Total/NA	Analysis	8082		1	193110	11/25/15 01:03	DCH	TAL PLS
Total/NA	Prep	3050B			193069	11/23/15 14:53	OBI	TAL PLS
Total/NA	Analysis	6010B		4	193244	11/25/15 18:12	EFH	TAL PLS
Total/NA	Prep	3050B			193069	11/23/15 14:53	OBI	TAL PLS
Total/NA	Analysis	6010B		1	193280	11/27/15 12:37	EFH	TAL PLS
Total/NA	Prep	7471A			193072	11/23/15 15:06	ASB	TAL PLS
Total/NA	Analysis	7471A		1	193236	11/25/15 15:30	SLK	TAL PLS

**Laboratory References:**

= Asbestos TEM Laboratories, Inc., 630 BANCROFT WAY, Berkeley, CA 94710

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

# Certification Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68750-1

## Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

Analysis Method	Prep Method	Matrix	Analyte
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# Method Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68750-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PLS
8270C	Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
CARB 435	General Sub Contract Method	NONE	

#### Protocol References:

NONE = NONE

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

= Asbestos TEM Laboratories, Inc., 630 BANCROFT WAY, Berkeley, CA 94710

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

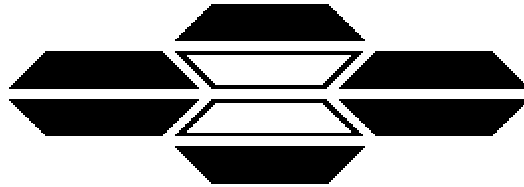
# Sample Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68750-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-68750-4	SP-1D	Solid	11/19/15 14:00	11/19/15 16:51
720-68750-5	SP-1A,-1B,-1C,-1D	Solid	11/19/15 14:00	11/19/15 16:51

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## **ASBESTOS TEM LABORATORIES, INC.**

### **CARB Method 435 Polarized Light Microscopy Analytical Report**

**Laboratory Job # 1283-00569**

630 Bancroft Way  
Berkeley, CA 94710  
(510) 704-8930  
FAX (510) 704-8429

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ASBESTOS TEM LABORATORIES, INC

CA DPH ELAP  
Lab No. 1866



NVLAP Lab Code: 101891-0  
Berkeley, CA

Nov/25/2015

Dimple Sharma  
TestAmerica Laboratories, Inc.  
1220 Quarry Lane  
Pleasanton, CA 94566

RE: LABORATORY JOB # 1283-00569  
Polarized light microscopy analytical results for 1 bulk sample(s).  
Job Site: 720-68750-1  
Job No.: Turner/UCSF Benioff

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with the California Air Resources Board (ARB) Method 435 for the determination of asbestos in serpentine aggregate samples.

Prior to analysis, samples are logged-in and all data pertinent to the sample recorded. The samples are checked for damage or disruption of any chain-of-custody seals. A unique laboratory ID number is assigned to each sample. A hard copy log-in sheet containing all pertinent information concerning the sample is generated. This and all other relevant paper work are kept with the sample throughout the analytical procedures to assure proper analysis.

Sample preparation follows a standard CARB 435 prep method. The entire sample is dried at 135-150 C and then crushed to ~3/8" gravel size using a Bico Chipmunk crusher. If the submitted sample is >1 pint, the sample was split using a 1/2" riffle splitter following ASTM Method C-702-98 to obtain a 1 pint aliquot. The entire 1 pint aliquot, or entire original sample, is then pulverized in a Bico Braun disc pulverizer calibrated to produce a nominal 200 mesh final product. If necessary, additional homogenization steps are undertaken using a 3/8" riffle splitter. Small aliquots are collected from throughout the pulverized material to create three separate microscope slide mounts containing the appropriate refractive index oil. The prepared slides are placed under a polarizing light microscope where standard mineralogical techniques are used to analyze the various materials present, including asbestos. If asbestos is identified and of less than 10% concentration by visual area estimate then an additional five sample mounts are prepared. Quantification of asbestos concentration is obtained using the standard CAL ARB Method 435 point count protocol. For samples observed to contain visible asbestos of less than 10% concentration, a point counting technique is used with 50 points counted on each of eight sample mounts for a total of 400 points. The data is then compiled into standard report format and subjected to a thorough quality assurance check before the information is released to the client.

While the CARB 435 method has much to commend it, there are a number of situations where it fails to provide sufficient accuracy to make a definitive determination of the presence/absence of asbestos and/or an accurate count of the asbestos concentration present in a given sample. These problems include, but are not limited to, 1) statistical uncertainty with samples containing <1% asbestos when too few particles are counted, 2) definitive identification and discrimination between various fibrous amphibole minerals such as tremolite/actinolite/hornblende and the "Libby amphiboles" such as tremolite/winchite/richterite/arfvedsonite, and C) small asbestiform fibers which are near or below the resolution limit of the PLM microscope such as those found in various California coast range serpentine bodies. In these cases, further analysis by transmission electron microscopy is recommended to obtain a more accurate result.

Sincerely Yours,

Lab Manager  
ASBESTOS TEM LABORATORIES, INC.

--- These results relate only to the samples tested and must not be reproduced, except in full, without the approval of the laboratory. ---

630 BANCROFT WAY • BERKELEY, CA 94710 • PH. (510) 704-8930 • FAX (510) 704-8429

With Branch Offices Located At: 1350 FREEPORT BLVD. UNIT 104, SPARKS, NV 89431





# POLARIZED LIGHT MICROSCOPY CARB 435 ANALYTICAL REPORT

Page: 1 of

Contact: Dimple Sharma	Samples Submitted: 1	Report No. <b>337745</b>
Address: TestAmerica Laboratories, Inc. 1220 Quarry Lane Pleasanton, CA 94566	Samples Analyzed: 1	Date Submitted: Nov-20-15
	Job Site / No. Turner/UCSF Benioff 720-68750-1	Date Reported: Nov-25-15

SAMPLE ID	POINTS COUNTED	ASBESTOS % TYPE	LOCATION / DESCRIPTION
SP-1A,-1B,-1C,-1D		<b>&lt;0.25% None Detected</b>	720-68750-5
Lab ID # 1283-00569-001	<b>400</b> - Total Points		No Asbestos Detected - ARB Exception I
Lab ID #	- Total Points		
Lab ID #	- Total Points		
Lab ID #	- Total Points		
Lab ID #	- Total Points		
Lab ID #	- Total Points		
Lab ID #	- Total Points		
Lab ID #	- Total Points		
Lab ID #	- Total Points		
Lab ID #	- Total Points		
Lab ID #	- Total Points		
Lab ID #	- Total Points		

QC Reviewer *R. Mc. B...*

Analyst *Jo Ann H...*



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING  
**720-68750**

TESTAMERICA Pleasanton Chain of Custody  
 1220 Quarry Lane • Pleasanton CA 94566-4756  
 Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 165138

Date: 11/19/11 Page 1 of 1

**Report To**

Client: Jason Grant  
 Company: Nurgo & Moore  
 Address: 1956 Webster St, Oakland  
 Mail: jasgrant@nurgoandmoore.com  
 II To: 4025001  
 Sampled By: EDM  
 Phone: 510 343-3000

**Analysis Request**

Volatile Organics GC/MS (VOCs)  EPA 8260B  
 HVOCS by  EPA 8260B  
 EPA 8260B.  Gas  BTEX  
 5 Oxygenates  DCA, EDB  Ethanol  
 TPH EPA 8015B  Silica Gel  
 Diesel  Motor Oil  Other: TPH  
 SemiVolatile Organics GC/MS  EPA 8270C  
 PNA/PAH's by  8270C  
 8270C SIM  
 Oil and Grease  Petroleum  
 (EPA 1664/9071)  Total  
 Pesticides  EPA 8081  
 PCBs  EPA 8082  
 CAM17 Metals Take 22 Metals  
 (EPA 6010/7470/7471)  
 Metals  6010B  200.7  
 Lead  LUFT  RCRA   
 Other: \_\_\_\_\_  
 Metals:  6020  200.8  
 (ICP-MS): \_\_\_\_\_  
 W.E.T (STLC)  
 W.E.T (DI)  TCLP  
 Hex. Chrom by  EPA 7196  
 or EPA 7199  
 pH  9040  
 SM4500  
 Spec. Cond.  Alkalinity  
 TSS  SS  TDS  
 Anions:  Cl  SO<sub>4</sub>  NO<sub>2</sub>  F  
 Br  NO<sub>3</sub>  PO<sub>4</sub>  
 Perchlorate by EPA 314 0  
 COD  EPA 410.4  SM5220D  
 Turbidity  
 Ashes by CARB 425

Sample ID	Date	Time	Mail	Present	Number of Containers
SP-1A	11/18	1400	S	-	1
SP-1B					1
SP-1C					1
*SP-1D					1

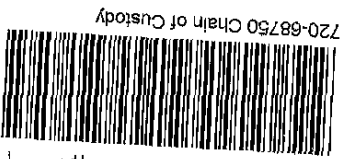
After Reviewing Analytical Results Sample (#) and then find their composite group and then fix

**Project Info**

Project Name/ #: Towers/Puast  
 Head Space: Benioctt  
 Temp: 1.40  
 # of Containers: \_\_\_\_\_  
 1) Relinquished by: [Signature] Time: 1530  
 Signature: [Signature]  
 Printed Name: Fernest McFadden Date: 11/19/11  
 Company: Nurgo & Moore  
 2) Relinquished by: Victor Rano Time: 1651  
 Signature: [Signature]  
 Printed Name: Victor Rano Date: 11/19/11  
 Company: TA  
 3) Relinquished by: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_  
 Company: \_\_\_\_\_

1) Received by: Victor Rano Time: 1530  
 Signature: [Signature]  
 Printed Name: Victor Rano Date: 11/19/11  
 Company: TA  
 2) Received by: [Signature] Time: 1657  
 Signature: [Signature]  
 Printed Name: Muller Date: 11-19-11  
 Company: [Signature]

3) Received \_\_\_\_\_  
 Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_ Date \_\_\_\_\_  
 Company \_\_\_\_\_



720-68750 Chain of Custody

Report:  Routine  Level 3  Level 4  EDD  EDF  
 Special Instructions / Comments: \_\_\_\_\_  
 Global ID: \_\_\_\_\_  
 Credit Card V/N: \_\_\_\_\_  
 If yes, please call with payment information ASAP  
 Terms and Conditions on reverse

## Sharma, Dimple

---

**From:** Jason Grant <jgrant@ninyoandmoore.com>  
**Sent:** Friday, November 20, 2015 8:56 AM  
**To:** Sharma, Dimple  
**Subject:** UCSF Benioff Soil Samples

**Importance:** High

Hi Dimple,

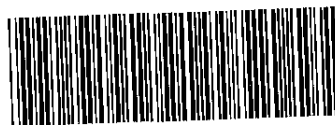
We do not need soil samples SP1-A, SP1-B, SP1-C and SP1-D analyzed under 24-hr TAT. Rather, these samples are to be analyzed under normal TAT.

Thanks,

Jason

Jason Grant, P.E.  
Senior Engineer  
**Ninyo & Moore**

Geotechnical & Environmental Sciences Consultants  
1956 Webster Street, Suite 400  
Oakland, California 94612  
(510) 343-3000 (x15202)  
(510) 343-3001 (Fax)  
[jgrant@ninyoandmoore.com](mailto:jgrant@ninyoandmoore.com)



720-68750 Chain of Custody

**San Jose office**  
2149 O'Toole Avenue, Suite 30  
San Jose, CA 95131  
(408) 435-9000  
(408) 435-9006 (Fax)

## Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-68750-1

**Login Number: 68750**

**List Number: 1**

**Creator: Bullock, Tracy**

**List Source: TestAmerica Pleasanton**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

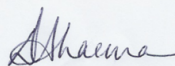
## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Pleasanton  
1220 Quarry Lane  
Pleasanton, CA 94566  
Tel: (925)484-1919

TestAmerica Job ID: 720-68752-1  
Client Project/Site: Turner/UCSF Benioff

For:  
Ninyo & Moore  
1956 Webster Street  
Suite 400  
Oakland, California 94612

Attn: Jason Grant



Authorized for release by:  
11/30/2015 9:26:22 AM

Dimple Sharma, Senior Project Manager  
(925)484-1919  
[dimple.sharma@testamericainc.com](mailto:dimple.sharma@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Definitions/Glossary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## Qualifiers

### GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# Case Narrative

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Job ID: 720-68752-1**

**Laboratory: TestAmerica Pleasanton**

## Narrative

### Job Narrative 720-68752-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 11/19/2015 4:51 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4° C.

#### Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. TPH-Gas requested on composite Group S-2 but VOC's was not requested on \* S-2-A-2 like all other groups. Logged VOC+ TPH-Gas on \* S-2-A-2.

1.) The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): S-1-B-1 The container labels list S-1-C-1, while the COC lists S-1-B-1. Received two jars with the same sample ID: S-1-C-1, the time on one is difficult to read on the label, labeled that one as S-1-B-1.

The other jar the sample time is 13:25 and matches the COC sample time, labeled as S-1-C-1.

2.) The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): S-4-C-1.5 The container labels list S-4-C-2, while the COC lists S-4-C-1.5.

#### GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### GC/MS Semi VOA

Method 8270C: The following samples was diluted due to color: S-1-A-2 (720-68752-1) and SY-1-1 (720-68752-21). Elevated reporting limits (RL) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### GC Semi VOA

Method 8081A: The %RPD between the primary and confirmation column / detector exceeded 40% for alpha-Chlordane and gamma-Chlordane for the following samples: S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1 (720-68752-5). The lower value has been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column / detector exceeded 40% for 4,4'-DDD. Chlordane (technical). alpha-Chlordane and gamma-Chlordane for the following samples: SY-1-1, SY-2-1. SY-3-1, SY-4-2 (720-68752-25). The lower value has been reported and qualified in accordance with the laboratory's SOP.

Method 8082: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1 (720-68752-5), S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5 (720-68752-10), S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5 (720-68752-20) and SY-1-1, SY-2-1. SY-3-1, SY-4-2 (720-68752-25).

Method 8082: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1 (720-68752-15), (LCS 720-193128/2-A), (MB 720-193128/1-A), (720-68752-A-15-J MS) and (720-68752-A-15-K MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

# Case Narrative

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

---

## Job ID: 720-68752-1 (Continued)

---

### Laboratory: TestAmerica Pleasanton (Continued)

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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# Detection Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Client Sample ID: S-1-A-2**

**Lab Sample ID: 720-68752-1**

No Detections.

**Client Sample ID: S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1**

**Lab Sample ID: 720-68752-5**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	110		2.0		mg/Kg	2		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	350		99		mg/Kg	2		8015B	Silica Gel Cleanup
Dieldrin	2.5		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDT	6.4		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDE	3.6		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDD	2.9		2.0		ug/Kg	1		8081A	Total/NA
alpha-Chlordane	3.2	p	2.0		ug/Kg	1		8081A	Total/NA
gamma-Chlordane	2.8	p	2.0		ug/Kg	1		8081A	Total/NA
Arsenic	6.2		3.3		mg/Kg	4		6010B	Total/NA
Barium	190		0.41		mg/Kg	1		6010B	Total/NA
Beryllium	0.38		0.33		mg/Kg	4		6010B	Total/NA
Cadmium	0.43		0.41		mg/Kg	4		6010B	Total/NA
Chromium	35		1.7		mg/Kg	4		6010B	Total/NA
Cobalt	8.3		0.66		mg/Kg	4		6010B	Total/NA
Copper	26		5.0		mg/Kg	4		6010B	Total/NA
Lead	70		1.7		mg/Kg	4		6010B	Total/NA
Molybdenum	0.44		0.41		mg/Kg	1		6010B	Total/NA
Nickel	44		1.7		mg/Kg	4		6010B	Total/NA
Vanadium	30		1.7		mg/Kg	4		6010B	Total/NA
Zinc	130		5.0		mg/Kg	4		6010B	Total/NA
Mercury	0.16		0.0092		mg/Kg	1		7471A	Total/NA

**Client Sample ID: S-2-A-2,**

**Lab Sample ID: 720-68752-6**

No Detections.

**Client Sample ID: S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5**

**Lab Sample ID: 720-68752-10**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	36		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	85		50		mg/Kg	1		8015B	Silica Gel Cleanup
4,4'-DDT	2.0		2.0		ug/Kg	1		8081A	Total/NA
Arsenic	20		3.3		mg/Kg	4		6010B	Total/NA
Barium	200		1.6		mg/Kg	4		6010B	Total/NA
Cadmium	0.52		0.41		mg/Kg	4		6010B	Total/NA
Chromium	44		1.6		mg/Kg	4		6010B	Total/NA
Cobalt	11		0.66		mg/Kg	4		6010B	Total/NA
Copper	23		4.9		mg/Kg	4		6010B	Total/NA
Lead	65		1.6		mg/Kg	4		6010B	Total/NA
Molybdenum	1.6		1.6		mg/Kg	4		6010B	Total/NA
Nickel	50		1.6		mg/Kg	4		6010B	Total/NA
Vanadium	30		1.6		mg/Kg	4		6010B	Total/NA
Zinc	140		4.9		mg/Kg	4		6010B	Total/NA
Mercury	0.12		0.0092		mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Detection Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## Client Sample ID: S-3-A-2

## Lab Sample ID: 720-68752-11

No Detections.

## Client Sample ID: S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1

## Lab Sample ID: 720-68752-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	10		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
4,4'-DDT	3.1		2.0		ug/Kg	1		8081A	Total/NA
Arsenic	7.9		3.3		mg/Kg	4		6010B	Total/NA
Barium	97		0.41		mg/Kg	1		6010B	Total/NA
Cadmium	0.43		0.41		mg/Kg	4		6010B	Total/NA
Chromium	36		1.7		mg/Kg	4		6010B	Total/NA
Cobalt	10		0.66		mg/Kg	4		6010B	Total/NA
Copper	20		5.0		mg/Kg	4		6010B	Total/NA
Lead	20		1.7		mg/Kg	4		6010B	Total/NA
Molybdenum	0.96		0.41		mg/Kg	1		6010B	Total/NA
Nickel	50		1.7		mg/Kg	4		6010B	Total/NA
Vanadium	31		1.7		mg/Kg	4		6010B	Total/NA
Zinc	77		5.0		mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.0085		mg/Kg	1		7471A	Total/NA

## Client Sample ID: S-4-A-2

## Lab Sample ID: 720-68752-16

No Detections.

## Client Sample ID: S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5

## Lab Sample ID: 720-68752-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	77		2.0		mg/Kg	2		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	260		99		mg/Kg	2		8015B	Silica Gel Cleanup
4,4'-DDT	4.3		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDE	4.8		2.0		ug/Kg	1		8081A	Total/NA
gamma-Chlordane	3.5		2.0		ug/Kg	1		8081A	Total/NA
Arsenic	7.3		4.0		mg/Kg	4		6010B	Total/NA
Barium	110		0.50		mg/Kg	1		6010B	Total/NA
Cadmium	0.40		0.13		mg/Kg	1		6010B	Total/NA
Chromium	37		2.0		mg/Kg	4		6010B	Total/NA
Cobalt	9.5		0.80		mg/Kg	4		6010B	Total/NA
Copper	24		6.0		mg/Kg	4		6010B	Total/NA
Lead	52		2.0		mg/Kg	4		6010B	Total/NA
Molybdenum	0.62		0.50		mg/Kg	1		6010B	Total/NA
Nickel	48		2.0		mg/Kg	4		6010B	Total/NA
Vanadium	32		2.0		mg/Kg	4		6010B	Total/NA
Zinc	90		6.0		mg/Kg	4		6010B	Total/NA
Mercury	0.29		0.0091		mg/Kg	1		7471A	Total/NA

## Client Sample ID: SY-1-1

## Lab Sample ID: 720-68752-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	81		25		ug/Kg	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Detection Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## Client Sample ID: SY-1-1 (Continued)

## Lab Sample ID: 720-68752-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	380		240		ug/Kg	1		8260B	Total/NA

## Client Sample ID: SY-1-1, SY-2-1, SY-3-1, SY-4-2

## Lab Sample ID: 720-68752-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	42		2.0		mg/Kg	2		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	210		99		mg/Kg	2		8015B	Silica Gel Cleanup
4,4'-DDT	14		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDE	7.7		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDD	2.4	p	2.0		ug/Kg	1		8081A	Total/NA
Chlordane (technical)	90	p	39		ug/Kg	1		8081A	Total/NA
alpha-Chlordane	6.3	p	2.0		ug/Kg	1		8081A	Total/NA
gamma-Chlordane	5.9	p	2.0		ug/Kg	1		8081A	Total/NA
Arsenic	8.6		2.9		mg/Kg	4		6010B	Total/NA
Barium	290		1.4		mg/Kg	4		6010B	Total/NA
Beryllium	0.46		0.29		mg/Kg	4		6010B	Total/NA
Cadmium	0.74		0.36		mg/Kg	4		6010B	Total/NA
Chromium	41		1.4		mg/Kg	4		6010B	Total/NA
Cobalt	9.8		0.57		mg/Kg	4		6010B	Total/NA
Copper	35		4.3		mg/Kg	4		6010B	Total/NA
Lead	150		1.4		mg/Kg	4		6010B	Total/NA
Nickel	44		1.4		mg/Kg	4		6010B	Total/NA
Vanadium	36		1.4		mg/Kg	4		6010B	Total/NA
Zinc	190		4.3		mg/Kg	4		6010B	Total/NA
Mercury	0.10		0.0088		mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Client Sample ID: S-1-A-2**

**Date Collected: 11/19/15 11:01**

**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-1**

**Matrix: Solid**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
Acetone	ND		50		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
Benzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
Dichlorobromomethane	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
Bromobenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
Chlorobromomethane	ND		20		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
Bromoform	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
Bromomethane	ND		9.9		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
2-Butanone (MEK)	ND		50		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
n-Butylbenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
sec-Butylbenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
tert-Butylbenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
Carbon disulfide	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
Carbon tetrachloride	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
Chlorobenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
Chloroethane	ND		9.9		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
Chloroform	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
Chloromethane	ND		9.9		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
2-Chlorotoluene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
4-Chlorotoluene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
Chlorodibromomethane	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
1,3-Dichloropropane	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
1,1-Dichloropropane	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
1,2-Dibromo-3-Chloropropane	ND		9.9		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
Ethylene Dibromide	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
Dibromomethane	ND		9.9		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
1,1-Dichloroethane	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
1,2-Dichloroethane	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
1,1-Dichloroethene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
1,2-Dichloropropane	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
Ethylbenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
Hexachlorobutadiene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
2-Hexanone	ND		50		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
Isopropylbenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
4-Isopropyltoluene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
Methylene Chloride	ND		9.9		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
Naphthalene	ND		9.9		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
N-Propylbenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
Styrene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Client Sample ID: S-1-A-2**

**Lab Sample ID: 720-68752-1**

**Date Collected: 11/19/15 11:01**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
Tetrachloroethene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
Toluene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
Trichloroethene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
Trichlorofluoromethane	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
Vinyl acetate	ND		20		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
Vinyl chloride	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
Xylenes, Total	ND		9.9		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
2,2-Dichloropropane	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 22:49	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		11/19/15 22:02	11/23/15 22:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		45 - 131	11/19/15 22:02	11/23/15 22:49	1
1,2-Dichloroethane-d4 (Surr)	109		60 - 140	11/19/15 22:02	11/23/15 22:49	1
Toluene-d8 (Surr)	94		58 - 140	11/19/15 22:02	11/23/15 22:49	1

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Bis(2-chloroethyl)ether	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
2-Chlorophenol	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
1,3-Dichlorobenzene	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
1,4-Dichlorobenzene	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Benzyl alcohol	ND		0.34		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
1,2-Dichlorobenzene	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
2-Methylphenol	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Methylphenol, 3 & 4	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
N-Nitrosodi-n-propylamine	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Hexachloroethane	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Nitrobenzene	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Isophorone	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
2-Nitrophenol	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
2,4-Dimethylphenol	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Bis(2-chloroethoxy)methane	ND		0.34		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
2,4-Dichlorophenol	ND		0.65		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
1,2,4-Trichlorobenzene	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Naphthalene	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
4-Chloroaniline	ND		0.34		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Hexachlorobutadiene	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
4-Chloro-3-methylphenol	ND		0.34		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
2-Methylnaphthalene	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2

TestAmerica Pleasanton



# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Client Sample ID: S-1-A-2**

**Lab Sample ID: 720-68752-1**

**Date Collected: 11/19/15 11:01**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

**Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.34		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
2,4,6-Trichlorophenol	ND		0.34		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
2,4,5-Trichlorophenol	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
2-Chloronaphthalene	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
2-Nitroaniline	ND		0.65		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Dimethyl phthalate	ND		0.34		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Acenaphthylene	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
3-Nitroaniline	ND		0.34		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Acenaphthene	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
2,4-Dinitrophenol	ND		1.3		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
4-Nitrophenol	ND		0.65		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Dibenzofuran	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
2,4-Dinitrotoluene	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
2,6-Dinitrotoluene	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Diethyl phthalate	ND		0.34		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
4-Chlorophenyl phenyl ether	ND		0.34		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Fluorene	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
4-Nitroaniline	ND		0.65		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
2-Methyl-4,6-dinitrophenol	ND		0.65		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
N-Nitrosodiphenylamine	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
4-Bromophenyl phenyl ether	ND		0.34		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Hexachlorobenzene	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Pentachlorophenol	ND		0.65		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Phenanthrene	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Anthracene	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Di-n-butyl phthalate	ND		0.34		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Fluoranthene	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Pyrene	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Butyl benzyl phthalate	ND		0.34		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
3,3'-Dichlorobenzidine	ND		0.34		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Benzo[a]anthracene	ND		0.65		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Bis(2-ethylhexyl) phthalate	ND		0.65		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Chrysene	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Di-n-octyl phthalate	ND		0.34		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Benzo[b]fluoranthene	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Benzo[a]pyrene	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Benzo[k]fluoranthene	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Indeno[1,2,3-cd]pyrene	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Benzo[g,h,i]perylene	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Benzoic acid	ND		0.65		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Azobenzene	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2
Dibenz(a,h)anthracene	ND		0.13		mg/Kg		11/24/15 13:09	11/26/15 00:12	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	66		21 - 98	11/24/15 13:09	11/26/15 00:12	2
2-Fluorobiphenyl	87		30 - 112	11/24/15 13:09	11/26/15 00:12	2
Terphenyl-d14	95		32 - 117	11/24/15 13:09	11/26/15 00:12	2
2-Fluorophenol	71		28 - 98	11/24/15 13:09	11/26/15 00:12	2
Phenol-d5	73		23 - 101	11/24/15 13:09	11/26/15 00:12	2
2,4,6-Tribromophenol	89		37 - 114	11/24/15 13:09	11/26/15 00:12	2

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Client Sample ID: S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1**

**Lab Sample ID: 720-68752-5**

**Date Collected: 11/19/15 13:35**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	110		2.0		mg/Kg		11/24/15 13:14	11/25/15 19:04	2
Motor Oil Range Organics [C24-C36]	350		99		mg/Kg		11/24/15 13:14	11/25/15 19:04	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.1		0 - 1				11/24/15 13:14	11/25/15 19:04	2
p-Terphenyl	90		38 - 148				11/24/15 13:14	11/25/15 19:04	2

## Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:24	1
Dieldrin	2.5		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:24	1
Endrin aldehyde	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:24	1
Endrin	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:24	1
Endrin ketone	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:24	1
Heptachlor	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:24	1
Heptachlor epoxide	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:24	1
4,4'-DDT	6.4		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:24	1
4,4'-DDE	3.6		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:24	1
4,4'-DDD	2.9		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:24	1
Endosulfan I	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:24	1
Endosulfan II	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:24	1
alpha-BHC	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:24	1
beta-BHC	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:24	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:24	1
delta-BHC	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:24	1
Endosulfan sulfate	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:24	1
Methoxychlor	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:24	1
Toxaphene	ND		40		ug/Kg		11/24/15 09:43	11/25/15 10:24	1
Chlordane (technical)	ND		40		ug/Kg		11/24/15 09:43	11/25/15 10:24	1
alpha-Chlordane	3.2	p	2.0		ug/Kg		11/24/15 09:43	11/25/15 10:24	1
gamma-Chlordane	2.8	p	2.0		ug/Kg		11/24/15 09:43	11/25/15 10:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	114		57 - 122				11/24/15 09:43	11/25/15 10:24	1
DCB Decachlorobiphenyl	105		21 - 136				11/24/15 09:43	11/25/15 10:24	1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		11/24/15 09:54	11/25/15 01:19	1
PCB-1221	ND		50		ug/Kg		11/24/15 09:54	11/25/15 01:19	1
PCB-1232	ND		50		ug/Kg		11/24/15 09:54	11/25/15 01:19	1
PCB-1242	ND		50		ug/Kg		11/24/15 09:54	11/25/15 01:19	1
PCB-1248	ND		50		ug/Kg		11/24/15 09:54	11/25/15 01:19	1
PCB-1254	ND		50		ug/Kg		11/24/15 09:54	11/25/15 01:19	1
PCB-1260	ND		50		ug/Kg		11/24/15 09:54	11/25/15 01:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	89		45 - 132				11/24/15 09:54	11/25/15 01:19	1
DCB Decachlorobiphenyl	77		42 - 146				11/24/15 09:54	11/25/15 01:19	1

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
 Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Client Sample ID: S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1**

**Lab Sample ID: 720-68752-5**

**Date Collected: 11/19/15 13:35**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.41		mg/Kg		11/23/15 14:53	11/27/15 12:42	1
<b>Arsenic</b>	<b>6.2</b>		3.3		mg/Kg		11/23/15 14:53	11/25/15 18:17	4
<b>Barium</b>	<b>190</b>		0.41		mg/Kg		11/23/15 14:53	11/27/15 12:42	1
<b>Beryllium</b>	<b>0.38</b>		0.33		mg/Kg		11/23/15 14:53	11/25/15 18:17	4
<b>Cadmium</b>	<b>0.43</b>		0.41		mg/Kg		11/23/15 14:53	11/25/15 18:17	4
<b>Chromium</b>	<b>35</b>		1.7		mg/Kg		11/23/15 14:53	11/25/15 18:17	4
<b>Cobalt</b>	<b>8.3</b>		0.66		mg/Kg		11/23/15 14:53	11/25/15 18:17	4
<b>Copper</b>	<b>26</b>		5.0		mg/Kg		11/23/15 14:53	11/25/15 18:17	4
<b>Lead</b>	<b>70</b>		1.7		mg/Kg		11/23/15 14:53	11/25/15 18:17	4
<b>Molybdenum</b>	<b>0.44</b>		0.41		mg/Kg		11/23/15 14:53	11/27/15 12:42	1
<b>Nickel</b>	<b>44</b>		1.7		mg/Kg		11/23/15 14:53	11/25/15 18:17	4
Selenium	ND		0.83		mg/Kg		11/23/15 14:53	11/27/15 12:42	1
Silver	ND		0.21		mg/Kg		11/23/15 14:53	11/27/15 12:42	1
Thallium	ND		0.41		mg/Kg		11/23/15 14:53	11/27/15 12:42	1
<b>Vanadium</b>	<b>30</b>		1.7		mg/Kg		11/23/15 14:53	11/25/15 18:17	4
<b>Zinc</b>	<b>130</b>		5.0		mg/Kg		11/23/15 14:53	11/25/15 18:17	4

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.16</b>		0.0092		mg/Kg		11/23/15 15:06	11/25/15 15:33	1

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Client Sample ID: S-2-A-2,**  
**Date Collected: 11/19/15 08:43**  
**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-6**  
**Matrix: Solid**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
Acetone	ND		50		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
Benzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
Dichlorobromomethane	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
Bromobenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
Chlorobromomethane	ND		20		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
Bromoform	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
Bromomethane	ND		9.9		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
2-Butanone (MEK)	ND		50		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
n-Butylbenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
sec-Butylbenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
tert-Butylbenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
Carbon disulfide	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
Carbon tetrachloride	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
Chlorobenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
Chloroethane	ND		9.9		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
Chloroform	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
Chloromethane	ND		9.9		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
2-Chlorotoluene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
4-Chlorotoluene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
Chlorodibromomethane	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
1,3-Dichloropropane	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
1,1-Dichloropropene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
1,2-Dibromo-3-Chloropropane	ND		9.9		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
Ethylene Dibromide	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
Dibromomethane	ND		9.9		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
1,1-Dichloroethane	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
1,2-Dichloroethane	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
1,1-Dichloroethene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
1,2-Dichloropropane	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
Ethylbenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
Hexachlorobutadiene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
2-Hexanone	ND		50		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
Isopropylbenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
4-Isopropyltoluene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
Methylene Chloride	ND		9.9		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
Naphthalene	ND		9.9		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
N-Propylbenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
Styrene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Client Sample ID: S-2-A-2,**  
**Date Collected: 11/19/15 08:43**  
**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-6**  
**Matrix: Solid**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
Tetrachloroethene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
Toluene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
Trichloroethene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
Trichlorofluoromethane	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
Vinyl acetate	ND		20		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
Vinyl chloride	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
Xylenes, Total	ND		9.9		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
2,2-Dichloropropane	ND		5.0		ug/Kg		11/19/15 22:02	11/23/15 23:20	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		11/19/15 22:02	11/23/15 23:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		45 - 131	11/19/15 22:02	11/23/15 23:20	1
1,2-Dichloroethane-d4 (Surr)	110		60 - 140	11/19/15 22:02	11/23/15 23:20	1
Toluene-d8 (Surr)	94		58 - 140	11/19/15 22:02	11/23/15 23:20	1

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Bis(2-chloroethyl)ether	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
2-Chlorophenol	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
1,3-Dichlorobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
1,4-Dichlorobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Benzyl alcohol	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
1,2-Dichlorobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
2-Methylphenol	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Methylphenol, 3 & 4	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
N-Nitrosodi-n-propylamine	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Hexachloroethane	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Nitrobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Isophorone	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
2-Nitrophenol	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
2,4-Dimethylphenol	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Bis(2-chloroethoxy)methane	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
2,4-Dichlorophenol	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
1,2,4-Trichlorobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Naphthalene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
4-Chloroaniline	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Hexachlorobutadiene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
4-Chloro-3-methylphenol	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
2-Methylnaphthalene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Client Sample ID: S-2-A-2,**  
**Date Collected: 11/19/15 08:43**  
**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-6**  
**Matrix: Solid**

**Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
2,4,6-Trichlorophenol	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
2,4,5-Trichlorophenol	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
2-Chloronaphthalene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
2-Nitroaniline	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Dimethyl phthalate	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Acenaphthylene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
3-Nitroaniline	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Acenaphthene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
2,4-Dinitrophenol	ND		0.66		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
4-Nitrophenol	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Dibenzofuran	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
2,4-Dinitrotoluene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
2,6-Dinitrotoluene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Diethyl phthalate	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
4-Chlorophenyl phenyl ether	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Fluorene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
4-Nitroaniline	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
2-Methyl-4,6-dinitrophenol	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
N-Nitrosodiphenylamine	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
4-Bromophenyl phenyl ether	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Hexachlorobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Pentachlorophenol	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Phenanthrene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Anthracene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Di-n-butyl phthalate	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Fluoranthene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Pyrene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Butyl benzyl phthalate	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
3,3'-Dichlorobenzidine	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Benzo[a]anthracene	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Bis(2-ethylhexyl) phthalate	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Chrysene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Di-n-octyl phthalate	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Benzo[b]fluoranthene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Benzo[a]pyrene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Benzo[k]fluoranthene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Indeno[1,2,3-cd]pyrene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Benzo[g,h,i]perylene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Benzoic acid	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Azobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Dibenz(a,h)anthracene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 19:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	44		21 - 98				11/24/15 13:09	11/25/15 19:28	1
2-Fluorobiphenyl	64		30 - 112				11/24/15 13:09	11/25/15 19:28	1
Terphenyl-d14	80		32 - 117				11/24/15 13:09	11/25/15 19:28	1
2-Fluorophenol	48		28 - 98				11/24/15 13:09	11/25/15 19:28	1
Phenol-d5	54		23 - 101				11/24/15 13:09	11/25/15 19:28	1
2,4,6-Tribromophenol	74		37 - 114				11/24/15 13:09	11/25/15 19:28	1

TestAmerica Pleasanton



# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Client Sample ID: S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5**

**Lab Sample ID: 720-68752-10**

**Date Collected: 11/19/15 10:45**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	36		0.99		mg/Kg		11/24/15 13:14	11/25/15 16:39	1
Motor Oil Range Organics [C24-C36]	85		50		mg/Kg		11/24/15 13:14	11/25/15 16:39	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Capric Acid (Surr)	0.007		0 - 1				11/24/15 13:14	11/25/15 16:39	1
p-Terphenyl	109		38 - 148				11/24/15 13:14	11/25/15 16:39	1

## Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:41	1
Dieldrin	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:41	1
Endrin aldehyde	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:41	1
Endrin	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:41	1
Endrin ketone	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:41	1
Heptachlor	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:41	1
Heptachlor epoxide	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:41	1
4,4'-DDT	2.0		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:41	1
4,4'-DDE	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:41	1
4,4'-DDD	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:41	1
Endosulfan I	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:41	1
Endosulfan II	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:41	1
alpha-BHC	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:41	1
beta-BHC	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:41	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:41	1
delta-BHC	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:41	1
Endosulfan sulfate	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:41	1
Methoxychlor	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:41	1
Toxaphene	ND		39		ug/Kg		11/24/15 09:43	11/25/15 10:41	1
Chlordane (technical)	ND		39		ug/Kg		11/24/15 09:43	11/25/15 10:41	1
alpha-Chlordane	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:41	1
gamma-Chlordane	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:41	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	111		57 - 122				11/24/15 09:43	11/25/15 10:41	1
DCB Decachlorobiphenyl	114		21 - 136				11/24/15 09:43	11/25/15 10:41	1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		11/24/15 09:54	11/25/15 01:36	1
PCB-1221	ND		49		ug/Kg		11/24/15 09:54	11/25/15 01:36	1
PCB-1232	ND		49		ug/Kg		11/24/15 09:54	11/25/15 01:36	1
PCB-1242	ND		49		ug/Kg		11/24/15 09:54	11/25/15 01:36	1
PCB-1248	ND		49		ug/Kg		11/24/15 09:54	11/25/15 01:36	1
PCB-1254	ND		49		ug/Kg		11/24/15 09:54	11/25/15 01:36	1
PCB-1260	ND		49		ug/Kg		11/24/15 09:54	11/25/15 01:36	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	85		45 - 132				11/24/15 09:54	11/25/15 01:36	1
DCB Decachlorobiphenyl	77		42 - 146				11/24/15 09:54	11/25/15 01:36	1

TestAmerica Pleasanton



# Client Sample Results

Client: Ninyo & Moore  
 Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Client Sample ID: S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5**

**Lab Sample ID: 720-68752-10**

**Date Collected: 11/19/15 10:45**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.6		mg/Kg		11/23/15 14:53	11/25/15 18:22	4
<b>Arsenic</b>	<b>20</b>		3.3		mg/Kg		11/23/15 14:53	11/25/15 18:22	4
<b>Barium</b>	<b>200</b>		1.6		mg/Kg		11/23/15 14:53	11/27/15 12:47	4
Beryllium	ND		0.33		mg/Kg		11/23/15 14:53	11/25/15 18:22	4
<b>Cadmium</b>	<b>0.52</b>		0.41		mg/Kg		11/23/15 14:53	11/25/15 18:22	4
<b>Chromium</b>	<b>44</b>		1.6		mg/Kg		11/23/15 14:53	11/25/15 18:22	4
<b>Cobalt</b>	<b>11</b>		0.66		mg/Kg		11/23/15 14:53	11/25/15 18:22	4
<b>Copper</b>	<b>23</b>		4.9		mg/Kg		11/23/15 14:53	11/25/15 18:22	4
<b>Lead</b>	<b>65</b>		1.6		mg/Kg		11/23/15 14:53	11/25/15 18:22	4
<b>Molybdenum</b>	<b>1.6</b>		1.6		mg/Kg		11/23/15 14:53	11/27/15 12:47	4
<b>Nickel</b>	<b>50</b>		1.6		mg/Kg		11/23/15 14:53	11/25/15 18:22	4
Selenium	ND		3.3		mg/Kg		11/23/15 14:53	11/25/15 18:22	4
Silver	ND		0.82		mg/Kg		11/23/15 14:53	11/25/15 18:22	4
Thallium	ND		1.6		mg/Kg		11/23/15 14:53	11/25/15 18:22	4
<b>Vanadium</b>	<b>30</b>		1.6		mg/Kg		11/23/15 14:53	11/25/15 18:22	4
<b>Zinc</b>	<b>140</b>		4.9		mg/Kg		11/23/15 14:53	11/25/15 18:22	4

## Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.12</b>		0.0092		mg/Kg		11/23/15 15:06	11/25/15 15:40	1

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Client Sample ID: S-3-A-2**

**Date Collected: 11/19/15 10:20**

**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-11**

**Matrix: Solid**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
Acetone	ND		49		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
Benzene	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
Dichlorobromomethane	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
Bromobenzene	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
Chlorobromomethane	ND		20		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
Bromoform	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
Bromomethane	ND		9.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
2-Butanone (MEK)	ND		49		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
n-Butylbenzene	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
sec-Butylbenzene	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
tert-Butylbenzene	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
Carbon disulfide	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
Carbon tetrachloride	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
Chlorobenzene	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
Chloroethane	ND		9.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
Chloroform	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
Chloromethane	ND		9.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
2-Chlorotoluene	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
4-Chlorotoluene	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
Chlorodibromomethane	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
1,2-Dichlorobenzene	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
1,3-Dichlorobenzene	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
1,4-Dichlorobenzene	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
1,3-Dichloropropane	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
1,1-Dichloropropene	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
1,2-Dibromo-3-Chloropropane	ND		9.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
Ethylene Dibromide	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
Dibromomethane	ND		9.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
1,1-Dichloroethane	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
1,2-Dichloroethane	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
1,1-Dichloroethene	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
cis-1,2-Dichloroethene	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
trans-1,2-Dichloroethene	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
1,2-Dichloropropane	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
cis-1,3-Dichloropropene	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
trans-1,3-Dichloropropene	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
Ethylbenzene	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
Hexachlorobutadiene	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
2-Hexanone	ND		49		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
Isopropylbenzene	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
4-Isopropyltoluene	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
Methylene Chloride	ND		9.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
4-Methyl-2-pentanone (MIBK)	ND		49		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
Naphthalene	ND		9.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
N-Propylbenzene	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
Styrene	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
1,1,1,2-Tetrachloroethane	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Client Sample ID: S-3-A-2**  
**Date Collected: 11/19/15 10:20**  
**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-11**  
**Matrix: Solid**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
Tetrachloroethene	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
Toluene	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
1,2,3-Trichlorobenzene	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
1,2,4-Trichlorobenzene	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
1,1,1-Trichloroethane	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
1,1,2-Trichloroethane	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
Trichloroethene	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
Trichlorofluoromethane	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
1,2,3-Trichloropropane	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
1,2,4-Trimethylbenzene	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
1,3,5-Trimethylbenzene	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
Vinyl acetate	ND		20		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
Vinyl chloride	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
Xylenes, Total	ND		9.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
2,2-Dichloropropane	ND		4.9		ug/Kg		11/19/15 22:02	11/23/15 23:49	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		11/19/15 22:02	11/23/15 23:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	86		45 - 131	11/19/15 22:02	11/23/15 23:49	1
1,2-Dichloroethane-d4 (Surr)	108		60 - 140	11/19/15 22:02	11/23/15 23:49	1
Toluene-d8 (Surr)	91		58 - 140	11/19/15 22:02	11/23/15 23:49	1

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Bis(2-chloroethyl)ether	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
2-Chlorophenol	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
1,3-Dichlorobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
1,4-Dichlorobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Benzyl alcohol	ND		0.17		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
1,2-Dichlorobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
2-Methylphenol	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Methylphenol, 3 & 4	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
N-Nitrosodi-n-propylamine	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Hexachloroethane	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Nitrobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Isophorone	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
2-Nitrophenol	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
2,4-Dimethylphenol	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Bis(2-chloroethoxy)methane	ND		0.17		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
2,4-Dichlorophenol	ND		0.33		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
1,2,4-Trichlorobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Naphthalene	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
4-Chloroaniline	ND		0.17		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Hexachlorobutadiene	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
4-Chloro-3-methylphenol	ND		0.17		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
2-Methylnaphthalene	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Client Sample ID: S-3-A-2**  
**Date Collected: 11/19/15 10:20**  
**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-11**  
**Matrix: Solid**

**Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.17		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
2,4,6-Trichlorophenol	ND		0.17		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
2,4,5-Trichlorophenol	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
2-Chloronaphthalene	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
2-Nitroaniline	ND		0.33		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Dimethyl phthalate	ND		0.17		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Acenaphthylene	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
3-Nitroaniline	ND		0.17		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Acenaphthene	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
2,4-Dinitrophenol	ND		0.66		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
4-Nitrophenol	ND		0.33		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Dibenzofuran	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
2,4-Dinitrotoluene	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
2,6-Dinitrotoluene	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Diethyl phthalate	ND		0.17		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
4-Chlorophenyl phenyl ether	ND		0.17		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Fluorene	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
4-Nitroaniline	ND		0.33		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
2-Methyl-4,6-dinitrophenol	ND		0.33		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
N-Nitrosodiphenylamine	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
4-Bromophenyl phenyl ether	ND		0.17		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Hexachlorobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Pentachlorophenol	ND		0.33		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Phenanthrene	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Anthracene	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Di-n-butyl phthalate	ND		0.17		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Fluoranthene	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Pyrene	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Butyl benzyl phthalate	ND		0.17		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
3,3'-Dichlorobenzidine	ND		0.17		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Benzo[a]anthracene	ND		0.33		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Bis(2-ethylhexyl) phthalate	ND		0.33		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Chrysene	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Di-n-octyl phthalate	ND		0.17		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Benzo[b]fluoranthene	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Benzo[a]pyrene	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Benzo[k]fluoranthene	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Indeno[1,2,3-cd]pyrene	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Benzo[g,h,i]perylene	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Benzoic acid	ND		0.33		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Azobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Dibenz(a,h)anthracene	ND		0.067		mg/Kg		11/24/15 13:09	11/27/15 14:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	58		21 - 98				11/24/15 13:09	11/27/15 14:17	1
2-Fluorobiphenyl	78		30 - 112				11/24/15 13:09	11/27/15 14:17	1
Terphenyl-d14	93		32 - 117				11/24/15 13:09	11/27/15 14:17	1
2-Fluorophenol	63		28 - 98				11/24/15 13:09	11/27/15 14:17	1
Phenol-d5	65		23 - 101				11/24/15 13:09	11/27/15 14:17	1
2,4,6-Tribromophenol	85		37 - 114				11/24/15 13:09	11/27/15 14:17	1

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Client Sample ID: S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1**

**Lab Sample ID: 720-68752-15**

**Date Collected: 11/19/15 10:20**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics [C10-C28]</b>	<b>10</b>		0.99		mg/Kg		11/24/15 13:14	11/25/15 16:15	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		11/24/15 13:14	11/25/15 16:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.04		0 - 1				11/24/15 13:14	11/25/15 16:15	1
p-Terphenyl	104		38 - 148				11/24/15 13:14	11/25/15 16:15	1

## Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 05:05	1
Dieldrin	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 05:05	1
Endrin aldehyde	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 05:05	1
Endrin	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 05:05	1
Endrin ketone	ND	F1	2.0		ug/Kg		11/24/15 09:43	11/25/15 05:05	1
Heptachlor	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 05:05	1
Heptachlor epoxide	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 05:05	1
<b>4,4'-DDT</b>	<b>3.1</b>		2.0		ug/Kg		11/24/15 09:43	11/25/15 05:05	1
4,4'-DDE	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 05:05	1
4,4'-DDD	ND	F1	2.0		ug/Kg		11/24/15 09:43	11/25/15 05:05	1
Endosulfan I	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 05:05	1
Endosulfan II	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 05:05	1
alpha-BHC	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 05:05	1
beta-BHC	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 05:05	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 05:05	1
delta-BHC	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 05:05	1
Endosulfan sulfate	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 05:05	1
Methoxychlor	ND	F1	2.0		ug/Kg		11/24/15 09:43	11/25/15 05:05	1
Toxaphene	ND		39		ug/Kg		11/24/15 09:43	11/25/15 05:05	1
Chlordane (technical)	ND		39		ug/Kg		11/24/15 09:43	11/25/15 05:05	1
alpha-Chlordane	ND	F1	2.0		ug/Kg		11/24/15 09:43	11/25/15 05:05	1
gamma-Chlordane	ND	F1	2.0		ug/Kg		11/24/15 09:43	11/25/15 05:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	92		57 - 122				11/24/15 09:43	11/25/15 05:05	1
DCB Decachlorobiphenyl	113		21 - 136				11/24/15 09:43	11/25/15 05:05	1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		11/24/15 09:54	11/25/15 01:36	1
PCB-1221	ND		49		ug/Kg		11/24/15 09:54	11/25/15 01:36	1
PCB-1232	ND		49		ug/Kg		11/24/15 09:54	11/25/15 01:36	1
PCB-1242	ND		49		ug/Kg		11/24/15 09:54	11/25/15 01:36	1
PCB-1248	ND		49		ug/Kg		11/24/15 09:54	11/25/15 01:36	1
PCB-1254	ND		49		ug/Kg		11/24/15 09:54	11/25/15 01:36	1
PCB-1260	ND		49		ug/Kg		11/24/15 09:54	11/25/15 01:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		45 - 132				11/24/15 09:54	11/25/15 01:36	1
DCB Decachlorobiphenyl	77		42 - 146				11/24/15 09:54	11/25/15 01:36	1

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
 Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Client Sample ID: S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1**

**Lab Sample ID: 720-68752-15**

**Date Collected: 11/19/15 10:20**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.41		mg/Kg		11/23/15 14:53	11/27/15 12:52	1
<b>Arsenic</b>	<b>7.9</b>		3.3		mg/Kg		11/23/15 14:53	11/25/15 18:26	4
<b>Barium</b>	<b>97</b>		0.41		mg/Kg		11/23/15 14:53	11/27/15 12:52	1
Beryllium	ND		0.33		mg/Kg		11/23/15 14:53	11/25/15 18:26	4
<b>Cadmium</b>	<b>0.43</b>		0.41		mg/Kg		11/23/15 14:53	11/25/15 18:26	4
<b>Chromium</b>	<b>36</b>		1.7		mg/Kg		11/23/15 14:53	11/25/15 18:26	4
<b>Cobalt</b>	<b>10</b>		0.66		mg/Kg		11/23/15 14:53	11/25/15 18:26	4
<b>Copper</b>	<b>20</b>		5.0		mg/Kg		11/23/15 14:53	11/25/15 18:26	4
<b>Lead</b>	<b>20</b>		1.7		mg/Kg		11/23/15 14:53	11/25/15 18:26	4
<b>Molybdenum</b>	<b>0.96</b>		0.41		mg/Kg		11/23/15 14:53	11/27/15 12:52	1
<b>Nickel</b>	<b>50</b>		1.7		mg/Kg		11/23/15 14:53	11/25/15 18:26	4
Selenium	ND		0.83		mg/Kg		11/23/15 14:53	11/27/15 12:52	1
Silver	ND		0.21		mg/Kg		11/23/15 14:53	11/27/15 12:52	1
Thallium	ND		0.41		mg/Kg		11/23/15 14:53	11/27/15 12:52	1
<b>Vanadium</b>	<b>31</b>		1.7		mg/Kg		11/23/15 14:53	11/25/15 18:26	4
<b>Zinc</b>	<b>77</b>		5.0		mg/Kg		11/23/15 14:53	11/25/15 18:26	4

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.11</b>		0.0085		mg/Kg		11/23/15 15:06	11/25/15 15:42	1

# Client Sample Results

Client: Ninyo & Moore  
 Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Client Sample ID: S-4-A-2**  
**Date Collected: 11/19/15 11:40**  
**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-16**  
**Matrix: Solid**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
Acetone	ND		50		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
Benzene	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
Dichlorobromomethane	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
Bromobenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
Chlorobromomethane	ND		20		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
Bromoform	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
Bromomethane	ND		10		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
2-Butanone (MEK)	ND		50		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
n-Butylbenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
sec-Butylbenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
tert-Butylbenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
Carbon disulfide	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
Carbon tetrachloride	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
Chlorobenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
Chloroethane	ND		10		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
Chloroform	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
Chloromethane	ND		10		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
2-Chlorotoluene	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
4-Chlorotoluene	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
Chlorodibromomethane	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
1,3-Dichloropropane	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
1,1-Dichloropropane	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
Ethylene Dibromide	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
Dibromomethane	ND		10		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
Dichlorodifluoromethane	ND		10		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
1,1-Dichloroethane	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
1,2-Dichloroethane	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
1,1-Dichloroethene	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
1,2-Dichloropropane	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
Ethylbenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
Hexachlorobutadiene	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
2-Hexanone	ND		50		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
Isopropylbenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
4-Isopropyltoluene	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
Methylene Chloride	ND		10		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
Naphthalene	ND		10		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
N-Propylbenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
Styrene	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1

TestAmerica Pleasanton



# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Client Sample ID: S-4-A-2**  
**Date Collected: 11/19/15 11:40**  
**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-16**  
**Matrix: Solid**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
Tetrachloroethene	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
Toluene	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
Trichloroethene	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
Trichlorofluoromethane	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
Vinyl acetate	ND		20		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
Vinyl chloride	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
Xylenes, Total	ND		10		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
2,2-Dichloropropane	ND		5.0		ug/Kg		11/19/15 22:02	11/24/15 00:20	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		11/19/15 22:02	11/24/15 00:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	84		45 - 131	11/19/15 22:02	11/24/15 00:20	1
1,2-Dichloroethane-d4 (Surr)	107		60 - 140	11/19/15 22:02	11/24/15 00:20	1
Toluene-d8 (Surr)	90		58 - 140	11/19/15 22:02	11/24/15 00:20	1

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Bis(2-chloroethyl)ether	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
2-Chlorophenol	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
1,3-Dichlorobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
1,4-Dichlorobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Benzyl alcohol	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
1,2-Dichlorobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
2-Methylphenol	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Methylphenol, 3 & 4	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
N-Nitrosodi-n-propylamine	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Hexachloroethane	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Nitrobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Isophorone	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
2-Nitrophenol	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
2,4-Dimethylphenol	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Bis(2-chloroethoxy)methane	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
2,4-Dichlorophenol	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
1,2,4-Trichlorobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Naphthalene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
4-Chloroaniline	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Hexachlorobutadiene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
4-Chloro-3-methylphenol	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
2-Methylnaphthalene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Client Sample ID: S-4-A-2**  
**Date Collected: 11/19/15 11:40**  
**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-16**  
**Matrix: Solid**

**Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
2,4,6-Trichlorophenol	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
2,4,5-Trichlorophenol	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
2-Chloronaphthalene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
2-Nitroaniline	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Dimethyl phthalate	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Acenaphthylene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
3-Nitroaniline	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Acenaphthene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
2,4-Dinitrophenol	ND		0.66		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
4-Nitrophenol	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Dibenzofuran	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
2,4-Dinitrotoluene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
2,6-Dinitrotoluene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Diethyl phthalate	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
4-Chlorophenyl phenyl ether	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Fluorene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
4-Nitroaniline	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
2-Methyl-4,6-dinitrophenol	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
N-Nitrosodiphenylamine	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
4-Bromophenyl phenyl ether	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Hexachlorobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Pentachlorophenol	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Phenanthrene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Anthracene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Di-n-butyl phthalate	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Fluoranthene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Pyrene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Butyl benzyl phthalate	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
3,3'-Dichlorobenzidine	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Benzo[a]anthracene	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Bis(2-ethylhexyl) phthalate	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Chrysene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Di-n-octyl phthalate	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Benzo[b]fluoranthene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Benzo[a]pyrene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Benzo[k]fluoranthene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Indeno[1,2,3-cd]pyrene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Benzo[g,h,i]perylene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Benzoic acid	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Azobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Dibenz(a,h)anthracene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 16:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	57		21 - 98				11/24/15 13:09	11/25/15 16:26	1
2-Fluorobiphenyl	78		30 - 112				11/24/15 13:09	11/25/15 16:26	1
Terphenyl-d14	87		32 - 117				11/24/15 13:09	11/25/15 16:26	1
2-Fluorophenol	63		28 - 98				11/24/15 13:09	11/25/15 16:26	1
Phenol-d5	67		23 - 101				11/24/15 13:09	11/25/15 16:26	1
2,4,6-Tribromophenol	82		37 - 114				11/24/15 13:09	11/25/15 16:26	1

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Client Sample ID: S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5**

**Lab Sample ID: 720-68752-20**

**Date Collected: 11/19/15 13:07**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	77		2.0		mg/Kg		11/24/15 13:14	11/25/15 17:51	2
Motor Oil Range Organics [C24-C36]	260		99		mg/Kg		11/24/15 13:14	11/25/15 17:51	2
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Capric Acid (Surr)	0.2		0 - 1				11/24/15 13:14	11/25/15 17:51	2
p-Terphenyl	79		38 - 148				11/24/15 13:14	11/25/15 17:51	2

## Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 11:16	1
Dieldrin	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 11:16	1
Endrin aldehyde	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 11:16	1
Endrin	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 11:16	1
Endrin ketone	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 11:16	1
Heptachlor	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 11:16	1
Heptachlor epoxide	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 11:16	1
4,4'-DDT	4.3		2.0		ug/Kg		11/24/15 09:43	11/25/15 11:16	1
4,4'-DDE	4.8		2.0		ug/Kg		11/24/15 09:43	11/25/15 11:16	1
4,4'-DDD	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 11:16	1
Endosulfan I	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 11:16	1
Endosulfan II	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 11:16	1
alpha-BHC	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 11:16	1
beta-BHC	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 11:16	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 11:16	1
delta-BHC	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 11:16	1
Endosulfan sulfate	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 11:16	1
Methoxychlor	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 11:16	1
Toxaphene	ND		39		ug/Kg		11/24/15 09:43	11/25/15 11:16	1
Chlordane (technical)	ND		39		ug/Kg		11/24/15 09:43	11/25/15 11:16	1
alpha-Chlordane	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 11:16	1
gamma-Chlordane	3.5		2.0		ug/Kg		11/24/15 09:43	11/25/15 11:16	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	117		57 - 122				11/24/15 09:43	11/25/15 11:16	1
DCB Decachlorobiphenyl	116		21 - 136				11/24/15 09:43	11/25/15 11:16	1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		11/24/15 09:54	11/25/15 02:09	1
PCB-1221	ND		49		ug/Kg		11/24/15 09:54	11/25/15 02:09	1
PCB-1232	ND		49		ug/Kg		11/24/15 09:54	11/25/15 02:09	1
PCB-1242	ND		49		ug/Kg		11/24/15 09:54	11/25/15 02:09	1
PCB-1248	ND		49		ug/Kg		11/24/15 09:54	11/25/15 02:09	1
PCB-1254	ND		49		ug/Kg		11/24/15 09:54	11/25/15 02:09	1
PCB-1260	ND		49		ug/Kg		11/24/15 09:54	11/25/15 02:09	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	87		45 - 132				11/24/15 09:54	11/25/15 02:09	1
DCB Decachlorobiphenyl	74		42 - 146				11/24/15 09:54	11/25/15 02:09	1

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Client Sample ID: S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5**

**Lab Sample ID: 720-68752-20**

**Date Collected: 11/19/15 13:07**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		11/23/15 14:53	11/27/15 12:57	1
<b>Arsenic</b>	<b>7.3</b>		4.0		mg/Kg		11/23/15 14:53	11/25/15 18:31	4
<b>Barium</b>	<b>110</b>		0.50		mg/Kg		11/23/15 14:53	11/27/15 12:57	1
Beryllium	ND		0.10		mg/Kg		11/23/15 14:53	11/27/15 15:06	1
<b>Cadmium</b>	<b>0.40</b>		0.13		mg/Kg		11/23/15 14:53	11/27/15 12:57	1
<b>Chromium</b>	<b>37</b>		2.0		mg/Kg		11/23/15 14:53	11/25/15 18:31	4
<b>Cobalt</b>	<b>9.5</b>		0.80		mg/Kg		11/23/15 14:53	11/25/15 18:31	4
<b>Copper</b>	<b>24</b>		6.0		mg/Kg		11/23/15 14:53	11/25/15 18:31	4
<b>Lead</b>	<b>52</b>		2.0		mg/Kg		11/23/15 14:53	11/25/15 18:31	4
<b>Molybdenum</b>	<b>0.62</b>		0.50		mg/Kg		11/23/15 14:53	11/27/15 12:57	1
<b>Nickel</b>	<b>48</b>		2.0		mg/Kg		11/23/15 14:53	11/25/15 18:31	4
Selenium	ND		1.0		mg/Kg		11/23/15 14:53	11/27/15 12:57	1
Silver	ND		0.25		mg/Kg		11/23/15 14:53	11/27/15 12:57	1
Thallium	ND		0.50		mg/Kg		11/23/15 14:53	11/27/15 12:57	1
<b>Vanadium</b>	<b>32</b>		2.0		mg/Kg		11/23/15 14:53	11/25/15 18:31	4
<b>Zinc</b>	<b>90</b>		6.0		mg/Kg		11/23/15 14:53	11/25/15 18:31	4

## Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.29</b>		0.0091		mg/Kg		11/23/15 15:06	11/25/15 15:44	1

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Client Sample ID: SY-1-1**

**Date Collected: 11/19/15 14:55**

**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-21**

**Matrix: Solid**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
Acetone	ND		49		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
Benzene	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
Dichlorobromomethane	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
Bromobenzene	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
Chlorobromomethane	ND		20		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
Bromoform	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
Bromomethane	ND		9.8		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
2-Butanone (MEK)	ND		49		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
n-Butylbenzene	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
sec-Butylbenzene	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
tert-Butylbenzene	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
Carbon disulfide	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
Carbon tetrachloride	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
Chlorobenzene	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
Chloroethane	ND		9.8		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
Chloroform	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
Chloromethane	ND		9.8		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
2-Chlorotoluene	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
4-Chlorotoluene	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
Chlorodibromomethane	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
1,2-Dichlorobenzene	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
1,3-Dichlorobenzene	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
1,4-Dichlorobenzene	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
1,3-Dichloropropane	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
1,1-Dichloropropene	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
1,2-Dibromo-3-Chloropropane	ND		9.8		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
Ethylene Dibromide	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
Dibromomethane	ND		9.8		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
Dichlorodifluoromethane	ND		9.8		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
1,1-Dichloroethane	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
1,2-Dichloroethane	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
1,1-Dichloroethene	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
cis-1,2-Dichloroethene	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
trans-1,2-Dichloroethene	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
1,2-Dichloropropane	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
cis-1,3-Dichloropropene	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
trans-1,3-Dichloropropene	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
Ethylbenzene	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
Hexachlorobutadiene	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
2-Hexanone	ND		49		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
Isopropylbenzene	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
4-Isopropyltoluene	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
Methylene Chloride	ND		9.8		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
4-Methyl-2-pentanone (MIBK)	ND		49		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
Naphthalene	ND		9.8		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
N-Propylbenzene	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
Styrene	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
1,1,1,2-Tetrachloroethane	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Client Sample ID: SY-1-1**

**Lab Sample ID: 720-68752-21**

**Date Collected: 11/19/15 14:55**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
Tetrachloroethene	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
<b>Toluene</b>	<b>81</b>		25		ug/Kg		11/24/15 22:14	11/25/15 03:39	1
1,2,3-Trichlorobenzene	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
1,2,4-Trichlorobenzene	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
1,1,1-Trichloroethane	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
1,1,2-Trichloroethane	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
Trichloroethene	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
Trichlorofluoromethane	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
1,2,3-Trichloropropane	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
1,2,4-Trimethylbenzene	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
1,3,5-Trimethylbenzene	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
Vinyl acetate	ND		20		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
Vinyl chloride	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
Xylenes, Total	ND		9.8		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
2,2-Dichloropropane	ND		4.9		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
<b>Gasoline Range Organics (GRO)</b>	<b>380</b>		240		ug/Kg		11/19/15 22:02	11/24/15 00:50	1
<b>-C5-C12</b>									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	86		45 - 131	11/19/15 22:02	11/24/15 00:50	1
4-Bromofluorobenzene	92		45 - 131	11/24/15 22:14	11/25/15 03:39	1
1,2-Dichloroethane-d4 (Surr)	116		60 - 140	11/19/15 22:02	11/24/15 00:50	1
1,2-Dichloroethane-d4 (Surr)	102		60 - 140	11/24/15 22:14	11/25/15 03:39	1
Toluene-d8 (Surr)	88		58 - 140	11/19/15 22:02	11/24/15 00:50	1
Toluene-d8 (Surr)	88		58 - 140	11/24/15 22:14	11/25/15 03:39	1

**Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Bis(2-chloroethyl)ether	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
2-Chlorophenol	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
1,3-Dichlorobenzene	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
1,4-Dichlorobenzene	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Benzyl alcohol	ND		6.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
1,2-Dichlorobenzene	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
2-Methylphenol	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Methylphenol, 3 & 4	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
N-Nitrosodi-n-propylamine	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Hexachloroethane	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Nitrobenzene	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Isophorone	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
2-Nitrophenol	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
2,4-Dimethylphenol	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Bis(2-chloroethoxy)methane	ND		6.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
2,4-Dichlorophenol	ND		13		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
1,2,4-Trichlorobenzene	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Naphthalene	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
4-Chloroaniline	ND		6.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20

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# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Client Sample ID: SY-1-1**

**Lab Sample ID: 720-68752-21**

**Date Collected: 11/19/15 14:55**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

**Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
4-Chloro-3-methylphenol	ND		6.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
2-Methylnaphthalene	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Hexachlorocyclopentadiene	ND		6.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
2,4,6-Trichlorophenol	ND		6.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
2,4,5-Trichlorophenol	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
2-Chloronaphthalene	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
2-Nitroaniline	ND		13		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Dimethyl phthalate	ND		6.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Acenaphthylene	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
3-Nitroaniline	ND		6.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Acenaphthene	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
2,4-Dinitrophenol	ND		26		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
4-Nitrophenol	ND		13		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Dibenzofuran	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
2,4-Dinitrotoluene	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
2,6-Dinitrotoluene	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Diethyl phthalate	ND		6.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
4-Chlorophenyl phenyl ether	ND		6.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Fluorene	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
4-Nitroaniline	ND		13		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
2-Methyl-4,6-dinitrophenol	ND		13		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
N-Nitrosodiphenylamine	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
4-Bromophenyl phenyl ether	ND		6.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Hexachlorobenzene	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Pentachlorophenol	ND		13		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Phenanthrene	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Anthracene	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Di-n-butyl phthalate	ND		6.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Fluoranthene	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Pyrene	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Butyl benzyl phthalate	ND		6.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
3,3'-Dichlorobenzidine	ND		6.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Benzo[a]anthracene	ND		13		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Bis(2-ethylhexyl) phthalate	ND		13		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Chrysene	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Di-n-octyl phthalate	ND		6.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Benzo[b]fluoranthene	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Benzo[a]pyrene	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Benzo[k]fluoranthene	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Indeno[1,2,3-cd]pyrene	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Benzo[g,h,i]perylene	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Benzoic acid	ND		13		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Azobenzene	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20
Dibenz(a,h)anthracene	ND		2.7		mg/Kg		11/24/15 13:09	11/26/15 00:38	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	61		21 - 98	11/24/15 13:09	11/26/15 00:38	20
2-Fluorobiphenyl	83		30 - 112	11/24/15 13:09	11/26/15 00:38	20
Terphenyl-d14	88		32 - 117	11/24/15 13:09	11/26/15 00:38	20

TestAmerica Pleasanton



# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Client Sample ID: SY-1-1**  
**Date Collected: 11/19/15 14:55**  
**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-21**  
**Matrix: Solid**

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2-Fluorophenol	66		28 - 98	11/24/15 13:09	11/26/15 00:38	20
Phenol-d5	69		23 - 101	11/24/15 13:09	11/26/15 00:38	20
2,4,6-Tribromophenol	68		37 - 114	11/24/15 13:09	11/26/15 00:38	20

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# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Client Sample ID: SY-1-1, SY-2-1, SY-3-1, SY-4-2**

**Lab Sample ID: 720-68752-25**

**Date Collected: 11/19/15 15:10**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	42		2.0		mg/Kg		11/24/15 13:14	11/25/15 17:27	2
Motor Oil Range Organics [C24-C36]	210		99		mg/Kg		11/24/15 13:14	11/25/15 17:27	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.06		0 - 1				11/24/15 13:14	11/25/15 17:27	2
p-Terphenyl	94		38 - 148				11/24/15 13:14	11/25/15 17:27	2

## Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:59	1
Dieldrin	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:59	1
Endrin aldehyde	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:59	1
Endrin	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:59	1
Endrin ketone	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:59	1
Heptachlor	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:59	1
Heptachlor epoxide	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:59	1
4,4'-DDT	14		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:59	1
4,4'-DDE	7.7		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:59	1
4,4'-DDD	2.4	p	2.0		ug/Kg		11/24/15 09:43	11/25/15 10:59	1
Endosulfan I	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:59	1
Endosulfan II	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:59	1
alpha-BHC	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:59	1
beta-BHC	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:59	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:59	1
delta-BHC	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:59	1
Endosulfan sulfate	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:59	1
Methoxychlor	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 10:59	1
Toxaphene	ND		39		ug/Kg		11/24/15 09:43	11/25/15 10:59	1
Chlordane (technical)	90	p	39		ug/Kg		11/24/15 09:43	11/25/15 10:59	1
alpha-Chlordane	6.3	p	2.0		ug/Kg		11/24/15 09:43	11/25/15 10:59	1
gamma-Chlordane	5.9	p	2.0		ug/Kg		11/24/15 09:43	11/25/15 10:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	112		57 - 122				11/24/15 09:43	11/25/15 10:59	1
DCB Decachlorobiphenyl	110		21 - 136				11/24/15 09:43	11/25/15 10:59	1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		11/24/15 09:54	11/25/15 01:53	1
PCB-1221	ND		49		ug/Kg		11/24/15 09:54	11/25/15 01:53	1
PCB-1232	ND		49		ug/Kg		11/24/15 09:54	11/25/15 01:53	1
PCB-1242	ND		49		ug/Kg		11/24/15 09:54	11/25/15 01:53	1
PCB-1248	ND		49		ug/Kg		11/24/15 09:54	11/25/15 01:53	1
PCB-1254	ND		49		ug/Kg		11/24/15 09:54	11/25/15 01:53	1
PCB-1260	ND		49		ug/Kg		11/24/15 09:54	11/25/15 01:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	99		45 - 132				11/24/15 09:54	11/25/15 01:53	1
DCB Decachlorobiphenyl	76		42 - 146				11/24/15 09:54	11/25/15 01:53	1

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
 Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Client Sample ID: SY-1-1, SY-2-1, SY-3-1, SY-4-2**

**Lab Sample ID: 720-68752-25**

**Date Collected: 11/19/15 15:10**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.4		mg/Kg		11/23/15 14:53	11/25/15 18:36	4
<b>Arsenic</b>	<b>8.6</b>		2.9		mg/Kg		11/23/15 14:53	11/25/15 18:36	4
<b>Barium</b>	<b>290</b>		1.4		mg/Kg		11/23/15 14:53	11/27/15 13:01	4
<b>Beryllium</b>	<b>0.46</b>		0.29		mg/Kg		11/23/15 14:53	11/25/15 18:36	4
<b>Cadmium</b>	<b>0.74</b>		0.36		mg/Kg		11/23/15 14:53	11/25/15 18:36	4
<b>Chromium</b>	<b>41</b>		1.4		mg/Kg		11/23/15 14:53	11/25/15 18:36	4
<b>Cobalt</b>	<b>9.8</b>		0.57		mg/Kg		11/23/15 14:53	11/25/15 18:36	4
<b>Copper</b>	<b>35</b>		4.3		mg/Kg		11/23/15 14:53	11/25/15 18:36	4
<b>Lead</b>	<b>150</b>		1.4		mg/Kg		11/23/15 14:53	11/25/15 18:36	4
Molybdenum	ND		1.4		mg/Kg		11/23/15 14:53	11/27/15 13:01	4
<b>Nickel</b>	<b>44</b>		1.4		mg/Kg		11/23/15 14:53	11/25/15 18:36	4
Selenium	ND		2.9		mg/Kg		11/23/15 14:53	11/25/15 18:36	4
Silver	ND		0.71		mg/Kg		11/23/15 14:53	11/25/15 18:36	4
Thallium	ND		1.4		mg/Kg		11/23/15 14:53	11/25/15 18:36	4
<b>Vanadium</b>	<b>36</b>		1.4		mg/Kg		11/23/15 14:53	11/25/15 18:36	4
<b>Zinc</b>	<b>190</b>		4.3		mg/Kg		11/23/15 14:53	11/25/15 18:36	4

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.10</b>		0.0088		mg/Kg		11/23/15 15:06	11/25/15 15:47	1

# Surrogate Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (45-131)	12DCE (60-140)	TOL (58-140)
720-68752-1	S-1-A-2	89	109	94
720-68752-6	S-2-A-2,	91	110	94
720-68752-11	S-3-A-2	86	108	91
720-68752-16	S-4-A-2	84	107	90
720-68752-21	SY-1-1	86	116	88
720-68752-21	SY-1-1	92	102	88
LCS 720-193082/6	Lab Control Sample	102	99	100
LCS 720-193082/8	Lab Control Sample	102	102	99
LCS 720-193165/5	Lab Control Sample	103	103	100
LCS 720-193165/7	Lab Control Sample	102	103	100
LCSD 720-193082/7	Lab Control Sample Dup	102	101	101
LCSD 720-193082/9	Lab Control Sample Dup	103	101	99
LCSD 720-193165/6	Lab Control Sample Dup	104	100	100
LCSD 720-193165/8	Lab Control Sample Dup	104	104	99
MB 720-193082/5	Method Blank	93	103	92
MB 720-193165/4	Method Blank	96	106	93

#### Surrogate Legend

BFB = 4-Bromofluorobenzene  
12DCE = 1,2-Dichloroethane-d4 (Surr)  
TOL = Toluene-d8 (Surr)

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	NBZ (21-98)	FBP (30-112)	TPH (32-117)	2FP (28-98)	PHL (23-101)	TBP (37-114)
720-68752-1	S-1-A-2	66	87	95	71	73	89
720-68752-6	S-2-A-2,	44	64	80	48	54	74
720-68752-11	S-3-A-2	58	78	93	63	65	85
720-68752-16	S-4-A-2	57	78	87	63	67	82
720-68752-21	SY-1-1	61	83	88	66	69	68
LCS 720-193152/2-A	Lab Control Sample	73	85	93	83	81	96
MB 720-193152/1-A	Method Blank	64	85	88	73	74	96

#### Surrogate Legend

NBZ = Nitrobenzene-d5  
FBP = 2-Fluorobiphenyl  
TPH = Terphenyl-d14  
2FP = 2-Fluorophenol  
PHL = Phenol-d5  
TBP = 2,4,6-Tribromophenol

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# Surrogate Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Silica Gel Cleanup

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		NDA1 (0-1)	PTP1 (38-148)
720-68752-5	S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1	0.1	90
720-68752-10	S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5	0.007	109
720-68752-15	S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1	0.04	104
720-68752-20	S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5	0.2	79
720-68752-25	SY-1-1, SY-2-1, SY-3-1, SY-4-2	0.06	94
LCS 720-193153/2-A	Lab Control Sample		95
MB 720-193153/1-A	Method Blank	0	103

**Surrogate Legend**  
NDA = Capric Acid (Surr)  
PTP = p-Terphenyl

## Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX2 (57-122)	DCB1 (21-136)
720-68752-5	S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1	114	105
720-68752-10	S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5	111	114
720-68752-15	S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1	92	113
720-68752-15 MS	S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1	106	126
720-68752-15 MSD	S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1	107	126
720-68752-20	S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5	117	116
720-68752-25	SY-1-1, SY-2-1, SY-3-1, SY-4-2	112	110
LCS 720-193126/2-A	Lab Control Sample	105	127
MB 720-193126/1-A	Method Blank	104	116

**Surrogate Legend**  
TCX = Tetrachloro-m-xylene  
DCB = DCB Decachlorobiphenyl

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (45-132)	DCB1 (42-146)
720-68752-5	S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1	89	77
720-68752-10	S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5	85	77
720-68752-15	S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1	73	77

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# Surrogate Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (45-132)	DCB1 (42-146)
720-68752-15 MS	S-3-A-2, S-3-B-2, S-3-C-2, S-3-I	87	90
720-68752-15 MSD	S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1	91	92
720-68752-20	S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5	87	74
720-68752-25	SY-1-1, SY-2-1, SY-3-1, SY-4-2	99	76
LCS 720-193128/2-A	Lab Control Sample	92	95
MB 720-193128/1-A	Method Blank	89	95

#### Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

# QC Sample Results

Client: Ninyo & Moore  
 Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 720-193082/5**  
**Matrix: Solid**  
**Analysis Batch: 193082**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			11/23/15 18:45	1
Acetone	ND		50		ug/Kg			11/23/15 18:45	1
Benzene	ND		5.0		ug/Kg			11/23/15 18:45	1
Dichlorobromomethane	ND		5.0		ug/Kg			11/23/15 18:45	1
Bromobenzene	ND		5.0		ug/Kg			11/23/15 18:45	1
Chlorobromomethane	ND		20		ug/Kg			11/23/15 18:45	1
Bromoform	ND		5.0		ug/Kg			11/23/15 18:45	1
Bromomethane	ND		10		ug/Kg			11/23/15 18:45	1
2-Butanone (MEK)	ND		50		ug/Kg			11/23/15 18:45	1
n-Butylbenzene	ND		5.0		ug/Kg			11/23/15 18:45	1
sec-Butylbenzene	ND		5.0		ug/Kg			11/23/15 18:45	1
tert-Butylbenzene	ND		5.0		ug/Kg			11/23/15 18:45	1
Carbon disulfide	ND		5.0		ug/Kg			11/23/15 18:45	1
Carbon tetrachloride	ND		5.0		ug/Kg			11/23/15 18:45	1
Chlorobenzene	ND		5.0		ug/Kg			11/23/15 18:45	1
Chloroethane	ND		10		ug/Kg			11/23/15 18:45	1
Chloroform	ND		5.0		ug/Kg			11/23/15 18:45	1
Chloromethane	ND		10		ug/Kg			11/23/15 18:45	1
2-Chlorotoluene	ND		5.0		ug/Kg			11/23/15 18:45	1
4-Chlorotoluene	ND		5.0		ug/Kg			11/23/15 18:45	1
Chlorodibromomethane	ND		5.0		ug/Kg			11/23/15 18:45	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			11/23/15 18:45	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			11/23/15 18:45	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			11/23/15 18:45	1
1,3-Dichloropropane	ND		5.0		ug/Kg			11/23/15 18:45	1
1,1-Dichloropropene	ND		5.0		ug/Kg			11/23/15 18:45	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg			11/23/15 18:45	1
Ethylene Dibromide	ND		5.0		ug/Kg			11/23/15 18:45	1
Dibromomethane	ND		10		ug/Kg			11/23/15 18:45	1
Dichlorodifluoromethane	ND		10		ug/Kg			11/23/15 18:45	1
1,1-Dichloroethane	ND		5.0		ug/Kg			11/23/15 18:45	1
1,2-Dichloroethane	ND		5.0		ug/Kg			11/23/15 18:45	1
1,1-Dichloroethene	ND		5.0		ug/Kg			11/23/15 18:45	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			11/23/15 18:45	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			11/23/15 18:45	1
1,2-Dichloropropane	ND		5.0		ug/Kg			11/23/15 18:45	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			11/23/15 18:45	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			11/23/15 18:45	1
Ethylbenzene	ND		5.0		ug/Kg			11/23/15 18:45	1
Hexachlorobutadiene	ND		5.0		ug/Kg			11/23/15 18:45	1
2-Hexanone	ND		50		ug/Kg			11/23/15 18:45	1
Isopropylbenzene	ND		5.0		ug/Kg			11/23/15 18:45	1
4-Isopropyltoluene	ND		5.0		ug/Kg			11/23/15 18:45	1
Methylene Chloride	ND		10		ug/Kg			11/23/15 18:45	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			11/23/15 18:45	1
Naphthalene	ND		10		ug/Kg			11/23/15 18:45	1
N-Propylbenzene	ND		5.0		ug/Kg			11/23/15 18:45	1
Styrene	ND		5.0		ug/Kg			11/23/15 18:45	1

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 720-193082/5**  
**Matrix: Solid**  
**Analysis Batch: 193082**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			11/23/15 18:45	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			11/23/15 18:45	1
Tetrachloroethene	ND		5.0		ug/Kg			11/23/15 18:45	1
Toluene	ND		5.0		ug/Kg			11/23/15 18:45	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			11/23/15 18:45	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			11/23/15 18:45	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			11/23/15 18:45	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			11/23/15 18:45	1
Trichloroethene	ND		5.0		ug/Kg			11/23/15 18:45	1
Trichlorofluoromethane	ND		5.0		ug/Kg			11/23/15 18:45	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			11/23/15 18:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			11/23/15 18:45	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			11/23/15 18:45	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			11/23/15 18:45	1
Vinyl acetate	ND		20		ug/Kg			11/23/15 18:45	1
Vinyl chloride	ND		5.0		ug/Kg			11/23/15 18:45	1
Xylenes, Total	ND		10		ug/Kg			11/23/15 18:45	1
2,2-Dichloropropane	ND		5.0		ug/Kg			11/23/15 18:45	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			11/23/15 18:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		45 - 131		11/23/15 18:45	1
1,2-Dichloroethane-d4 (Surr)	103		60 - 140		11/23/15 18:45	1
Toluene-d8 (Surr)	92		58 - 140		11/23/15 18:45	1

**Lab Sample ID: LCS 720-193082/6**  
**Matrix: Solid**  
**Analysis Batch: 193082**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	51.7		ug/Kg		103	70 - 144
Acetone	250	250		ug/Kg		100	30 - 162
Benzene	50.0	47.6		ug/Kg		95	70 - 130
Dichlorobromomethane	50.0	53.5		ug/Kg		107	70 - 140
Bromobenzene	50.0	48.1		ug/Kg		96	70 - 130
Chlorobromomethane	50.0	49.4		ug/Kg		99	70 - 130
Bromoform	50.0	49.6		ug/Kg		99	59 - 158
Bromomethane	50.0	46.2		ug/Kg		92	59 - 132
2-Butanone (MEK)	250	241		ug/Kg		96	53 - 133
n-Butylbenzene	50.0	48.1		ug/Kg		96	70 - 142
sec-Butylbenzene	50.0	47.3		ug/Kg		95	70 - 136
tert-Butylbenzene	50.0	49.1		ug/Kg		98	70 - 130
Carbon disulfide	50.0	46.1		ug/Kg		92	60 - 140
Carbon tetrachloride	50.0	52.4		ug/Kg		105	70 - 142
Chlorobenzene	50.0	44.8		ug/Kg		90	70 - 130
Chloroethane	50.0	44.8		ug/Kg		90	65 - 130
Chloroform	50.0	48.5		ug/Kg		97	77 - 127

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-193082/6

Matrix: Solid

Analysis Batch: 193082

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	44.6		ug/Kg		89	55 - 140
2-Chlorotoluene	50.0	48.3		ug/Kg		97	70 - 138
4-Chlorotoluene	50.0	47.7		ug/Kg		95	70 - 136
Chlorodibromomethane	50.0	51.9		ug/Kg		104	70 - 146
1,2-Dichlorobenzene	50.0	46.1		ug/Kg		92	70 - 130
1,3-Dichlorobenzene	50.0	46.3		ug/Kg		93	70 - 131
1,4-Dichlorobenzene	50.0	45.5		ug/Kg		91	70 - 130
1,3-Dichloropropane	50.0	49.2		ug/Kg		98	70 - 140
1,1-Dichloropropene	50.0	50.3		ug/Kg		101	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	44.4		ug/Kg		89	60 - 145
Ethylene Dibromide	50.0	51.2		ug/Kg		102	70 - 140
Dibromomethane	50.0	51.4		ug/Kg		103	70 - 139
Dichlorodifluoromethane	50.0	48.9		ug/Kg		98	37 - 158
1,1-Dichloroethane	50.0	47.8		ug/Kg		96	70 - 130
1,2-Dichloroethane	50.0	48.5		ug/Kg		97	70 - 130
1,1-Dichloroethene	50.0	44.2		ug/Kg		88	74 - 122
cis-1,2-Dichloroethene	50.0	47.5		ug/Kg		95	70 - 138
trans-1,2-Dichloroethene	50.0	48.3		ug/Kg		97	67 - 130
1,2-Dichloropropane	50.0	49.3		ug/Kg		99	73 - 127
cis-1,3-Dichloropropene	50.0	53.4		ug/Kg		107	68 - 147
trans-1,3-Dichloropropene	50.0	52.9		ug/Kg		106	70 - 155
Ethylbenzene	50.0	47.4		ug/Kg		95	80 - 137
Hexachlorobutadiene	50.0	48.5		ug/Kg		97	70 - 132
2-Hexanone	250	254		ug/Kg		102	44 - 133
Isopropylbenzene	50.0	50.1		ug/Kg		100	70 - 130
4-Isopropyltoluene	50.0	46.5		ug/Kg		93	70 - 133
Methylene Chloride	50.0	49.1		ug/Kg		98	70 - 134
4-Methyl-2-pentanone (MIBK)	250	258		ug/Kg		103	60 - 160
Naphthalene	50.0	53.1		ug/Kg		106	60 - 147
N-Propylbenzene	50.0	48.7		ug/Kg		97	70 - 130
Styrene	50.0	50.7		ug/Kg		101	70 - 130
1,1,1,2-Tetrachloroethane	50.0	53.2		ug/Kg		106	70 - 130
1,1,1,2,2-Tetrachloroethane	50.0	47.9		ug/Kg		96	70 - 146
Tetrachloroethene	50.0	49.1		ug/Kg		98	70 - 132
Toluene	50.0	44.6		ug/Kg		89	75 - 120
1,2,3-Trichlorobenzene	50.0	49.6		ug/Kg		99	60 - 140
1,2,4-Trichlorobenzene	50.0	50.4		ug/Kg		101	60 - 140
1,1,1-Trichloroethane	50.0	49.9		ug/Kg		100	70 - 130
1,1,2-Trichloroethane	50.0	48.6		ug/Kg		97	70 - 130
Trichloroethene	50.0	49.1		ug/Kg		98	70 - 133
Trichlorofluoromethane	50.0	50.6		ug/Kg		101	60 - 140
1,2,3-Trichloropropane	50.0	49.4		ug/Kg		99	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.8		ug/Kg		94	60 - 140
1,2,4-Trimethylbenzene	50.0	48.9		ug/Kg		98	70 - 130
1,3,5-Trimethylbenzene	50.0	48.9		ug/Kg		98	70 - 131
Vinyl acetate	50.0	55.0		ug/Kg		110	38 - 176
Vinyl chloride	50.0	46.6		ug/Kg		93	58 - 125

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 720-193082/6**  
**Matrix: Solid**  
**Analysis Batch: 193082**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	50.0	49.1		ug/Kg		98	70 - 146
o-Xylene	50.0	47.2		ug/Kg		94	70 - 140
2,2-Dichloropropane	50.0	52.8		ug/Kg		106	70 - 162

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	102		45 - 131
1,2-Dichloroethane-d4 (Surr)	99		60 - 140
Toluene-d8 (Surr)	100		58 - 140

**Lab Sample ID: LCS 720-193082/8**  
**Matrix: Solid**  
**Analysis Batch: 193082**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1040		ug/Kg		104	61 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	102		45 - 131
1,2-Dichloroethane-d4 (Surr)	102		60 - 140
Toluene-d8 (Surr)	99		58 - 140

**Lab Sample ID: LCSD 720-193082/7**  
**Matrix: Solid**  
**Analysis Batch: 193082**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	53.0		ug/Kg		106	70 - 144	2	20
Acetone	250	241		ug/Kg		96	30 - 162	4	30
Benzene	50.0	47.9		ug/Kg		96	70 - 130	1	20
Dichlorobromomethane	50.0	53.2		ug/Kg		106	70 - 140	1	20
Bromobenzene	50.0	48.9		ug/Kg		98	70 - 130	2	20
Chlorobromomethane	50.0	49.7		ug/Kg		99	70 - 130	1	20
Bromoform	50.0	51.0		ug/Kg		102	59 - 158	3	20
Bromomethane	50.0	47.9		ug/Kg		96	59 - 132	4	20
2-Butanone (MEK)	250	249		ug/Kg		100	53 - 133	3	20
n-Butylbenzene	50.0	49.4		ug/Kg		99	70 - 142	3	20
sec-Butylbenzene	50.0	48.7		ug/Kg		97	70 - 136	3	20
tert-Butylbenzene	50.0	49.8		ug/Kg		100	70 - 130	1	20
Carbon disulfide	50.0	46.6		ug/Kg		93	60 - 140	1	20
Carbon tetrachloride	50.0	52.1		ug/Kg		104	70 - 142	1	20
Chlorobenzene	50.0	45.5		ug/Kg		91	70 - 130	1	20
Chloroethane	50.0	46.7		ug/Kg		93	65 - 130	4	20
Chloroform	50.0	48.7		ug/Kg		97	77 - 127	0	20
Chloromethane	50.0	44.4		ug/Kg		89	55 - 140	0	20
2-Chlorotoluene	50.0	48.6		ug/Kg		97	70 - 138	0	20
4-Chlorotoluene	50.0	48.6		ug/Kg		97	70 - 136	2	20
Chlorodibromomethane	50.0	51.9		ug/Kg		104	70 - 146	0	20

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# QC Sample Results

Client: Ninyo & Moore  
 Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-193082/7

Matrix: Solid

Analysis Batch: 193082

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	50.0	46.5		ug/Kg		93	70 - 130	1	20
1,3-Dichlorobenzene	50.0	47.2		ug/Kg		94	70 - 131	2	20
1,4-Dichlorobenzene	50.0	46.5		ug/Kg		93	70 - 130	2	20
1,3-Dichloropropane	50.0	49.1		ug/Kg		98	70 - 140	0	20
1,1-Dichloropropene	50.0	50.2		ug/Kg		100	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	50.0	45.5		ug/Kg		91	60 - 145	2	20
Ethylene Dibromide	50.0	50.9		ug/Kg		102	70 - 140	1	20
Dibromomethane	50.0	49.9		ug/Kg		100	70 - 139	3	20
Dichlorodifluoromethane	50.0	48.2		ug/Kg		96	37 - 158	2	20
1,1-Dichloroethane	50.0	48.5		ug/Kg		97	70 - 130	1	20
1,2-Dichloroethane	50.0	49.0		ug/Kg		98	70 - 130	1	20
1,1-Dichloroethene	50.0	44.8		ug/Kg		90	74 - 122	1	20
cis-1,2-Dichloroethene	50.0	48.1		ug/Kg		96	70 - 138	1	20
trans-1,2-Dichloroethene	50.0	48.6		ug/Kg		97	67 - 130	1	20
1,2-Dichloropropane	50.0	50.2		ug/Kg		100	73 - 127	2	20
cis-1,3-Dichloropropene	50.0	53.5		ug/Kg		107	68 - 147	0	20
trans-1,3-Dichloropropene	50.0	53.4		ug/Kg		107	70 - 155	1	20
Ethylbenzene	50.0	47.8		ug/Kg		96	80 - 137	1	20
Hexachlorobutadiene	50.0	50.0		ug/Kg		100	70 - 132	3	20
2-Hexanone	250	258		ug/Kg		103	44 - 133	1	20
Isopropylbenzene	50.0	50.2		ug/Kg		100	70 - 130	0	20
4-Isopropyltoluene	50.0	47.1		ug/Kg		94	70 - 133	1	20
Methylene Chloride	50.0	49.5		ug/Kg		99	70 - 134	1	20
4-Methyl-2-pentanone (MIBK)	250	262		ug/Kg		105	60 - 160	2	20
Naphthalene	50.0	54.8		ug/Kg		110	60 - 147	3	20
N-Propylbenzene	50.0	49.2		ug/Kg		98	70 - 130	1	20
Styrene	50.0	51.1		ug/Kg		102	70 - 130	1	20
1,1,1,2-Tetrachloroethane	50.0	54.4		ug/Kg		109	70 - 130	2	20
1,1,2,2-Tetrachloroethane	50.0	49.4		ug/Kg		99	70 - 146	3	20
Tetrachloroethene	50.0	48.8		ug/Kg		98	70 - 132	1	20
Toluene	50.0	44.8		ug/Kg		90	75 - 120	0	20
1,2,3-Trichlorobenzene	50.0	51.3		ug/Kg		103	60 - 140	3	20
1,2,4-Trichlorobenzene	50.0	52.4		ug/Kg		105	60 - 140	4	20
1,1,1-Trichloroethane	50.0	50.2		ug/Kg		100	70 - 130	1	20
1,1,2-Trichloroethane	50.0	48.2		ug/Kg		96	70 - 130	1	20
Trichloroethene	50.0	49.0		ug/Kg		98	70 - 133	0	20
Trichlorofluoromethane	50.0	49.4		ug/Kg		99	60 - 140	2	20
1,2,3-Trichloropropane	50.0	50.6		ug/Kg		101	70 - 146	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.5		ug/Kg		93	60 - 140	1	20
1,2,4-Trimethylbenzene	50.0	50.4		ug/Kg		101	70 - 130	3	20
1,3,5-Trimethylbenzene	50.0	50.4		ug/Kg		101	70 - 131	3	20
Vinyl acetate	50.0	56.6		ug/Kg		113	38 - 176	3	20
Vinyl chloride	50.0	47.6		ug/Kg		95	58 - 125	2	20
m-Xylene & p-Xylene	50.0	49.8		ug/Kg		100	70 - 146	2	20
o-Xylene	50.0	48.0		ug/Kg		96	70 - 140	2	20
2,2-Dichloropropane	50.0	54.7		ug/Kg		109	70 - 162	4	20

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# QC Sample Results

Client: Ninyo & Moore  
 Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 720-193082/7**  
**Matrix: Solid**  
**Analysis Batch: 193082**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	102		45 - 131
1,2-Dichloroethane-d4 (Surr)	101		60 - 140
Toluene-d8 (Surr)	101		58 - 140

**Lab Sample ID: LCSD 720-193082/9**  
**Matrix: Solid**  
**Analysis Batch: 193082**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	1000	996		ug/Kg		100	61 - 128	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	103		45 - 131
1,2-Dichloroethane-d4 (Surr)	101		60 - 140
Toluene-d8 (Surr)	99		58 - 140

**Lab Sample ID: MB 720-193165/4**  
**Matrix: Solid**  
**Analysis Batch: 193165**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			11/24/15 19:30	1
Acetone	ND		50		ug/Kg			11/24/15 19:30	1
Benzene	ND		5.0		ug/Kg			11/24/15 19:30	1
Dichlorobromomethane	ND		5.0		ug/Kg			11/24/15 19:30	1
Bromobenzene	ND		5.0		ug/Kg			11/24/15 19:30	1
Chlorobromomethane	ND		20		ug/Kg			11/24/15 19:30	1
Bromoform	ND		5.0		ug/Kg			11/24/15 19:30	1
Bromomethane	ND		10		ug/Kg			11/24/15 19:30	1
2-Butanone (MEK)	ND		50		ug/Kg			11/24/15 19:30	1
n-Butylbenzene	ND		5.0		ug/Kg			11/24/15 19:30	1
sec-Butylbenzene	ND		5.0		ug/Kg			11/24/15 19:30	1
tert-Butylbenzene	ND		5.0		ug/Kg			11/24/15 19:30	1
Carbon disulfide	ND		5.0		ug/Kg			11/24/15 19:30	1
Carbon tetrachloride	ND		5.0		ug/Kg			11/24/15 19:30	1
Chlorobenzene	ND		5.0		ug/Kg			11/24/15 19:30	1
Chloroethane	ND		10		ug/Kg			11/24/15 19:30	1
Chloroform	ND		5.0		ug/Kg			11/24/15 19:30	1
Chloromethane	ND		10		ug/Kg			11/24/15 19:30	1
2-Chlorotoluene	ND		5.0		ug/Kg			11/24/15 19:30	1
4-Chlorotoluene	ND		5.0		ug/Kg			11/24/15 19:30	1
Chlorodibromomethane	ND		5.0		ug/Kg			11/24/15 19:30	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			11/24/15 19:30	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			11/24/15 19:30	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			11/24/15 19:30	1
1,3-Dichloropropane	ND		5.0		ug/Kg			11/24/15 19:30	1
1,1-Dichloropropene	ND		5.0		ug/Kg			11/24/15 19:30	1

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 720-193165/4**  
**Matrix: Solid**  
**Analysis Batch: 193165**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg			11/24/15 19:30	1
Ethylene Dibromide	ND		5.0		ug/Kg			11/24/15 19:30	1
Dibromomethane	ND		10		ug/Kg			11/24/15 19:30	1
Dichlorodifluoromethane	ND		10		ug/Kg			11/24/15 19:30	1
1,1-Dichloroethane	ND		5.0		ug/Kg			11/24/15 19:30	1
1,2-Dichloroethane	ND		5.0		ug/Kg			11/24/15 19:30	1
1,1-Dichloroethene	ND		5.0		ug/Kg			11/24/15 19:30	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			11/24/15 19:30	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			11/24/15 19:30	1
1,2-Dichloropropane	ND		5.0		ug/Kg			11/24/15 19:30	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			11/24/15 19:30	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			11/24/15 19:30	1
Ethylbenzene	ND		5.0		ug/Kg			11/24/15 19:30	1
Hexachlorobutadiene	ND		5.0		ug/Kg			11/24/15 19:30	1
2-Hexanone	ND		50		ug/Kg			11/24/15 19:30	1
Isopropylbenzene	ND		5.0		ug/Kg			11/24/15 19:30	1
4-Isopropyltoluene	ND		5.0		ug/Kg			11/24/15 19:30	1
Methylene Chloride	ND		10		ug/Kg			11/24/15 19:30	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			11/24/15 19:30	1
Naphthalene	ND		10		ug/Kg			11/24/15 19:30	1
N-Propylbenzene	ND		5.0		ug/Kg			11/24/15 19:30	1
Styrene	ND		5.0		ug/Kg			11/24/15 19:30	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			11/24/15 19:30	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			11/24/15 19:30	1
Tetrachloroethene	ND		5.0		ug/Kg			11/24/15 19:30	1
Toluene	ND		5.0		ug/Kg			11/24/15 19:30	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			11/24/15 19:30	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			11/24/15 19:30	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			11/24/15 19:30	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			11/24/15 19:30	1
Trichloroethene	ND		5.0		ug/Kg			11/24/15 19:30	1
Trichlorofluoromethane	ND		5.0		ug/Kg			11/24/15 19:30	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			11/24/15 19:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			11/24/15 19:30	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			11/24/15 19:30	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			11/24/15 19:30	1
Vinyl acetate	ND		20		ug/Kg			11/24/15 19:30	1
Vinyl chloride	ND		5.0		ug/Kg			11/24/15 19:30	1
Xylenes, Total	ND		10		ug/Kg			11/24/15 19:30	1
2,2-Dichloropropane	ND		5.0		ug/Kg			11/24/15 19:30	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			11/24/15 19:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		45 - 131		11/24/15 19:30	1
1,2-Dichloroethane-d4 (Surr)	106		60 - 140		11/24/15 19:30	1
Toluene-d8 (Surr)	93		58 - 140		11/24/15 19:30	1

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-193165/5

Matrix: Solid

Analysis Batch: 193165

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	55.1		ug/Kg		110	70 - 144
Acetone	250	259		ug/Kg		104	30 - 162
Benzene	50.0	48.2		ug/Kg		96	70 - 130
Dichlorobromomethane	50.0	54.2		ug/Kg		108	70 - 140
Bromobenzene	50.0	48.7		ug/Kg		97	70 - 130
Chlorobromomethane	50.0	50.8		ug/Kg		102	70 - 130
Bromoform	50.0	54.2		ug/Kg		108	59 - 158
Bromomethane	50.0	46.6		ug/Kg		93	59 - 132
2-Butanone (MEK)	250	274		ug/Kg		110	53 - 133
n-Butylbenzene	50.0	48.4		ug/Kg		97	70 - 142
sec-Butylbenzene	50.0	46.9		ug/Kg		94	70 - 136
tert-Butylbenzene	50.0	48.7		ug/Kg		97	70 - 130
Carbon disulfide	50.0	46.8		ug/Kg		94	60 - 140
Carbon tetrachloride	50.0	52.5		ug/Kg		105	70 - 142
Chlorobenzene	50.0	46.0		ug/Kg		92	70 - 130
Chloroethane	50.0	45.3		ug/Kg		91	65 - 130
Chloroform	50.0	49.2		ug/Kg		98	77 - 127
Chloromethane	50.0	44.7		ug/Kg		89	55 - 140
2-Chlorotoluene	50.0	48.4		ug/Kg		97	70 - 138
4-Chlorotoluene	50.0	47.7		ug/Kg		95	70 - 136
Chlorodibromomethane	50.0	53.4		ug/Kg		107	70 - 146
1,2-Dichlorobenzene	50.0	46.9		ug/Kg		94	70 - 130
1,3-Dichlorobenzene	50.0	46.3		ug/Kg		93	70 - 131
1,4-Dichlorobenzene	50.0	46.3		ug/Kg		93	70 - 130
1,3-Dichloropropane	50.0	51.1		ug/Kg		102	70 - 140
1,1-Dichloropropene	50.0	50.4		ug/Kg		101	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	48.5		ug/Kg		97	60 - 145
Ethylene Dibromide	50.0	53.2		ug/Kg		106	70 - 140
Dibromomethane	50.0	51.9		ug/Kg		104	70 - 139
Dichlorodifluoromethane	50.0	46.6		ug/Kg		93	37 - 158
1,1-Dichloroethane	50.0	48.7		ug/Kg		97	70 - 130
1,2-Dichloroethane	50.0	50.1		ug/Kg		100	70 - 130
1,1-Dichloroethene	50.0	44.8		ug/Kg		90	74 - 122
cis-1,2-Dichloroethene	50.0	48.1		ug/Kg		96	70 - 138
trans-1,2-Dichloroethene	50.0	48.7		ug/Kg		97	67 - 130
1,2-Dichloropropane	50.0	50.2		ug/Kg		100	73 - 127
cis-1,3-Dichloropropene	50.0	54.4		ug/Kg		109	68 - 147
trans-1,3-Dichloropropene	50.0	54.9		ug/Kg		110	70 - 155
Ethylbenzene	50.0	48.3		ug/Kg		97	80 - 137
Hexachlorobutadiene	50.0	50.2		ug/Kg		100	70 - 132
2-Hexanone	250	292		ug/Kg		117	44 - 133
Isopropylbenzene	50.0	50.9		ug/Kg		102	70 - 130
4-Isopropyltoluene	50.0	46.5		ug/Kg		93	70 - 133
Methylene Chloride	50.0	49.0		ug/Kg		98	70 - 134
4-Methyl-2-pentanone (MIBK)	250	289		ug/Kg		115	60 - 160
Naphthalene	50.0	56.4		ug/Kg		113	60 - 147
N-Propylbenzene	50.0	47.9		ug/Kg		96	70 - 130
Styrene	50.0	52.5		ug/Kg		105	70 - 130

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 720-193165/5**  
**Matrix: Solid**  
**Analysis Batch: 193165**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	55.3		ug/Kg		111	70 - 130
1,1,2,2-Tetrachloroethane	50.0	50.4		ug/Kg		101	70 - 146
Tetrachloroethene	50.0	50.0		ug/Kg		100	70 - 132
Toluene	50.0	45.3		ug/Kg		91	75 - 120
1,2,3-Trichlorobenzene	50.0	53.2		ug/Kg		106	60 - 140
1,2,4-Trichlorobenzene	50.0	53.1		ug/Kg		106	60 - 140
1,1,1-Trichloroethane	50.0	50.3		ug/Kg		101	70 - 130
1,1,2-Trichloroethane	50.0	50.0		ug/Kg		100	70 - 130
Trichloroethene	50.0	50.1		ug/Kg		100	70 - 133
Trichlorofluoromethane	50.0	49.1		ug/Kg		98	60 - 140
1,2,3-Trichloropropane	50.0	52.5		ug/Kg		105	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.2		ug/Kg		96	60 - 140
1,2,4-Trimethylbenzene	50.0	49.2		ug/Kg		98	70 - 130
1,3,5-Trimethylbenzene	50.0	49.1		ug/Kg		98	70 - 131
Vinyl acetate	50.0	59.3		ug/Kg		119	38 - 176
Vinyl chloride	50.0	44.9		ug/Kg		90	58 - 125
m-Xylene & p-Xylene	50.0	49.9		ug/Kg		100	70 - 146
o-Xylene	50.0	48.1		ug/Kg		96	70 - 140
2,2-Dichloropropane	50.0	53.3		ug/Kg		107	70 - 162

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	103		45 - 131
1,2-Dichloroethane-d4 (Surr)	103		60 - 140
Toluene-d8 (Surr)	100		58 - 140

**Lab Sample ID: LCS 720-193165/7**  
**Matrix: Solid**  
**Analysis Batch: 193165**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1030		ug/Kg		103	61 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	102		45 - 131
1,2-Dichloroethane-d4 (Surr)	103		60 - 140
Toluene-d8 (Surr)	100		58 - 140

**Lab Sample ID: LCSD 720-193165/6**  
**Matrix: Solid**  
**Analysis Batch: 193165**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	53.4		ug/Kg		107	70 - 144	3	20
Acetone	250	230		ug/Kg		92	30 - 162	12	30
Benzene	50.0	47.7		ug/Kg		95	70 - 130	1	20
Dichlorobromomethane	50.0	52.9		ug/Kg		106	70 - 140	2	20

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-193165/6

Matrix: Solid

Analysis Batch: 193165

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromobenzene	50.0	48.9		ug/Kg		98	70 - 130	0	20
Chlorobromomethane	50.0	50.1		ug/Kg		100	70 - 130	1	20
Bromoform	50.0	52.1		ug/Kg		104	59 - 158	4	20
Bromomethane	50.0	46.6		ug/Kg		93	59 - 132	0	20
2-Butanone (MEK)	250	253		ug/Kg		101	53 - 133	8	20
n-Butylbenzene	50.0	48.4		ug/Kg		97	70 - 142	0	20
sec-Butylbenzene	50.0	47.3		ug/Kg		95	70 - 136	1	20
tert-Butylbenzene	50.0	49.1		ug/Kg		98	70 - 130	1	20
Carbon disulfide	50.0	46.5		ug/Kg		93	60 - 140	1	20
Carbon tetrachloride	50.0	51.7		ug/Kg		103	70 - 142	2	20
Chlorobenzene	50.0	45.8		ug/Kg		92	70 - 130	0	20
Chloroethane	50.0	45.2		ug/Kg		90	65 - 130	0	20
Chloroform	50.0	48.5		ug/Kg		97	77 - 127	1	20
Chloromethane	50.0	44.2		ug/Kg		88	55 - 140	1	20
2-Chlorotoluene	50.0	48.7		ug/Kg		97	70 - 138	1	20
4-Chlorotoluene	50.0	48.1		ug/Kg		96	70 - 136	1	20
Chlorodibromomethane	50.0	51.7		ug/Kg		103	70 - 146	3	20
1,2-Dichlorobenzene	50.0	46.6		ug/Kg		93	70 - 130	1	20
1,3-Dichlorobenzene	50.0	46.6		ug/Kg		93	70 - 131	1	20
1,4-Dichlorobenzene	50.0	46.0		ug/Kg		92	70 - 130	1	20
1,3-Dichloropropane	50.0	49.6		ug/Kg		99	70 - 140	3	20
1,1-Dichloropropene	50.0	49.9		ug/Kg		100	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	50.0	45.7		ug/Kg		91	60 - 145	6	20
Ethylene Dibromide	50.0	51.3		ug/Kg		103	70 - 140	4	20
Dibromomethane	50.0	50.5		ug/Kg		101	70 - 139	3	20
Dichlorodifluoromethane	50.0	46.0		ug/Kg		92	37 - 158	1	20
1,1-Dichloroethane	50.0	48.1		ug/Kg		96	70 - 130	1	20
1,2-Dichloroethane	50.0	48.9		ug/Kg		98	70 - 130	2	20
1,1-Dichloroethene	50.0	44.8		ug/Kg		90	74 - 122	0	20
cis-1,2-Dichloroethene	50.0	47.3		ug/Kg		95	70 - 138	2	20
trans-1,2-Dichloroethene	50.0	48.7		ug/Kg		97	67 - 130	0	20
1,2-Dichloropropane	50.0	50.1		ug/Kg		100	73 - 127	0	20
cis-1,3-Dichloropropene	50.0	53.7		ug/Kg		107	68 - 147	1	20
trans-1,3-Dichloropropene	50.0	53.5		ug/Kg		107	70 - 155	2	20
Ethylbenzene	50.0	48.1		ug/Kg		96	80 - 137	0	20
Hexachlorobutadiene	50.0	50.9		ug/Kg		102	70 - 132	1	20
2-Hexanone	250	266		ug/Kg		107	44 - 133	9	20
Isopropylbenzene	50.0	50.4		ug/Kg		101	70 - 130	1	20
4-Isopropyltoluene	50.0	47.2		ug/Kg		94	70 - 133	1	20
Methylene Chloride	50.0	48.5		ug/Kg		97	70 - 134	1	20
4-Methyl-2-pentanone (MIBK)	250	270		ug/Kg		108	60 - 160	7	20
Naphthalene	50.0	54.7		ug/Kg		109	60 - 147	3	20
N-Propylbenzene	50.0	48.0		ug/Kg		96	70 - 130	0	20
Styrene	50.0	51.9		ug/Kg		104	70 - 130	1	20
1,1,1,2-Tetrachloroethane	50.0	54.5		ug/Kg		109	70 - 130	1	20
1,1,1,2,2-Tetrachloroethane	50.0	49.9		ug/Kg		100	70 - 146	1	20
Tetrachloroethene	50.0	49.2		ug/Kg		98	70 - 132	2	20
Toluene	50.0	45.4		ug/Kg		91	75 - 120	0	20

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 720-193165/6**  
**Matrix: Solid**  
**Analysis Batch: 193165**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichlorobenzene	50.0	52.5		ug/Kg		105	60 - 140	1	20
1,2,4-Trichlorobenzene	50.0	53.7		ug/Kg		107	60 - 140	1	20
1,1,1-Trichloroethane	50.0	49.5		ug/Kg		99	70 - 130	2	20
1,1,2-Trichloroethane	50.0	48.4		ug/Kg		97	70 - 130	3	20
Trichloroethene	50.0	49.6		ug/Kg		99	70 - 133	1	20
Trichlorofluoromethane	50.0	48.4		ug/Kg		97	60 - 140	1	20
1,2,3-Trichloropropane	50.0	50.9		ug/Kg		102	70 - 146	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.1		ug/Kg		94	60 - 140	2	20
1,2,4-Trimethylbenzene	50.0	49.5		ug/Kg		99	70 - 130	1	20
1,3,5-Trimethylbenzene	50.0	49.3		ug/Kg		99	70 - 131	0	20
Vinyl acetate	50.0	58.5		ug/Kg		117	38 - 176	1	20
Vinyl chloride	50.0	44.7		ug/Kg		89	58 - 125	1	20
m-Xylene & p-Xylene	50.0	50.0		ug/Kg		100	70 - 146	0	20
o-Xylene	50.0	48.1		ug/Kg		96	70 - 140	0	20
2,2-Dichloropropane	50.0	52.3		ug/Kg		105	70 - 162	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	104		45 - 131
1,2-Dichloroethane-d4 (Surr)	100		60 - 140
Toluene-d8 (Surr)	100		58 - 140

**Lab Sample ID: LCSD 720-193165/8**  
**Matrix: Solid**  
**Analysis Batch: 193165**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	1000	1060		ug/Kg		106	61 - 128	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	104		45 - 131
1,2-Dichloroethane-d4 (Surr)	104		60 - 140
Toluene-d8 (Surr)	99		58 - 140

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

**Lab Sample ID: MB 720-193152/1-A**  
**Matrix: Solid**  
**Analysis Batch: 193205**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 193152**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Bis(2-chloroethyl)ether	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
2-Chlorophenol	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
1,3-Dichlorobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
1,4-Dichlorobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Benzyl alcohol	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 14:42	1

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

**Lab Sample ID: MB 720-193152/1-A**

**Matrix: Solid**

**Analysis Batch: 193205**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 193152**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
2-Methylphenol	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Methylphenol, 3 & 4	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
N-Nitrosodi-n-propylamine	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Hexachloroethane	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Nitrobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Isophorone	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
2-Nitrophenol	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
2,4-Dimethylphenol	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Bis(2-chloroethoxy)methane	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
2,4-Dichlorophenol	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
1,2,4-Trichlorobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Naphthalene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
4-Chloroaniline	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Hexachlorobutadiene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
4-Chloro-3-methylphenol	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
2-Methylnaphthalene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Hexachlorocyclopentadiene	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
2,4,6-Trichlorophenol	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
2,4,5-Trichlorophenol	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
2-Chloronaphthalene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
2-Nitroaniline	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Dimethyl phthalate	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Acenaphthylene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
3-Nitroaniline	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Acenaphthene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
2,4-Dinitrophenol	ND		0.66		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
4-Nitrophenol	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Dibenzofuran	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
2,4-Dinitrotoluene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
2,6-Dinitrotoluene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Diethyl phthalate	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
4-Chlorophenyl phenyl ether	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Fluorene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
4-Nitroaniline	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
2-Methyl-4,6-dinitrophenol	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
N-Nitrosodiphenylamine	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
4-Bromophenyl phenyl ether	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Hexachlorobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Pentachlorophenol	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Phenanthrene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Anthracene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Di-n-butyl phthalate	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Fluoranthene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Pyrene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Butyl benzyl phthalate	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
3,3'-Dichlorobenzidine	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 14:42	1

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

**Lab Sample ID: MB 720-193152/1-A**

**Matrix: Solid**

**Analysis Batch: 193205**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 193152**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Bis(2-ethylhexyl) phthalate	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Chrysene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Di-n-octyl phthalate	ND		0.17		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Benzo[b]fluoranthene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Benzo[a]pyrene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Benzo[k]fluoranthene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Indeno[1,2,3-cd]pyrene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Benzo[g,h,i]perylene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Benzoic acid	ND		0.33		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Azobenzene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1
Dibenz(a,h)anthracene	ND		0.067		mg/Kg		11/24/15 13:09	11/25/15 14:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	64		21 - 98	11/24/15 13:09	11/25/15 14:42	1
2-Fluorobiphenyl	85		30 - 112	11/24/15 13:09	11/25/15 14:42	1
Terphenyl-d14	88		32 - 117	11/24/15 13:09	11/25/15 14:42	1
2-Fluorophenol	73		28 - 98	11/24/15 13:09	11/25/15 14:42	1
Phenol-d5	74		23 - 101	11/24/15 13:09	11/25/15 14:42	1
2,4,6-Tribromophenol	96		37 - 114	11/24/15 13:09	11/25/15 14:42	1

**Lab Sample ID: LCS 720-193152/2-A**

**Matrix: Solid**

**Analysis Batch: 193205**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 193152**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.10		mg/Kg		83	48 - 115
Bis(2-chloroethyl)ether	1.33	1.06		mg/Kg		79	45 - 115
2-Chlorophenol	1.33	1.17		mg/Kg		88	48 - 115
1,3-Dichlorobenzene	1.33	1.05		mg/Kg		79	41 - 115
1,4-Dichlorobenzene	1.33	1.08		mg/Kg		81	40 - 115
Benzyl alcohol	1.33	1.20		mg/Kg		90	51 - 115
1,2-Dichlorobenzene	1.33	1.08		mg/Kg		81	44 - 115
2-Methylphenol	1.33	1.13		mg/Kg		85	54 - 115
Methylphenol, 3 & 4	1.33	1.18		mg/Kg		89	42 - 115
N-Nitrosodi-n-propylamine	1.33	1.13		mg/Kg		85	46 - 115
Hexachloroethane	1.33	1.11		mg/Kg		83	44 - 115
Nitrobenzene	1.33	1.09		mg/Kg		82	48 - 115
Isophorone	1.33	1.12		mg/Kg		84	54 - 115
2-Nitrophenol	1.33	1.18		mg/Kg		88	48 - 115
2,4-Dimethylphenol	1.33	1.18		mg/Kg		89	52 - 115
Bis(2-chloroethoxy)methane	1.33	1.11		mg/Kg		83	46 - 115
2,4-Dichlorophenol	1.33	1.18		mg/Kg		88	49 - 100
1,2,4-Trichlorobenzene	1.33	1.12		mg/Kg		84	47 - 115
Naphthalene	1.33	1.17		mg/Kg		88	44 - 115
4-Chloroaniline	1.33	0.740		mg/Kg		55	30 - 115
Hexachlorobutadiene	1.33	1.12		mg/Kg		84	44 - 115

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: LCS 720-193152/2-A

Matrix: Solid

Analysis Batch: 193205

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 193152

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
4-Chloro-3-methylphenol	1.33	1.19		mg/Kg		89	58 - 115
2-Methylnaphthalene	1.33	1.07		mg/Kg		80	49 - 115
Hexachlorocyclopentadiene	1.33	0.853		mg/Kg		64	42 - 132
2,4,6-Trichlorophenol	1.33	1.20		mg/Kg		90	45 - 115
2,4,5-Trichlorophenol	1.33	1.23		mg/Kg		92	48 - 115
2-Chloronaphthalene	1.33	1.16		mg/Kg		87	52 - 115
2-Nitroaniline	1.33	1.20		mg/Kg		90	54 - 115
Dimethyl phthalate	1.33	1.21		mg/Kg		91	64 - 119
Acenaphthylene	1.33	1.18		mg/Kg		89	61 - 129
3-Nitroaniline	1.33	1.02		mg/Kg		77	50 - 115
Acenaphthene	1.33	1.21		mg/Kg		91	50 - 115
2,4-Dinitrophenol	2.67	2.36		mg/Kg		89	15 - 115
4-Nitrophenol	2.67	2.77		mg/Kg		104	54 - 125
Dibenzofuran	1.33	1.18		mg/Kg		88	55 - 115
2,4-Dinitrotoluene	1.33	1.26		mg/Kg		95	57 - 115
2,6-Dinitrotoluene	1.33	1.20		mg/Kg		90	54 - 119
Diethyl phthalate	1.33	1.27		mg/Kg		95	49 - 117
4-Chlorophenyl phenyl ether	1.33	1.24		mg/Kg		93	57 - 115
Fluorene	1.33	1.21		mg/Kg		91	54 - 115
4-Nitroaniline	1.33	1.35		mg/Kg		101	59 - 115
2-Methyl-4,6-dinitrophenol	2.67	2.56		mg/Kg		96	39 - 115
N-Nitrosodiphenylamine	2.28	2.19		mg/Kg		96	56 - 115
4-Bromophenyl phenyl ether	1.33	1.20		mg/Kg		90	53 - 115
Hexachlorobenzene	1.33	1.20		mg/Kg		90	55 - 115
Pentachlorophenol	2.67	2.46		mg/Kg		92	35 - 115
Phenanthrene	1.33	1.27		mg/Kg		95	54 - 115
Anthracene	1.33	1.24		mg/Kg		93	55 - 115
Di-n-butyl phthalate	1.33	1.25		mg/Kg		94	55 - 115
Fluoranthene	1.33	1.27		mg/Kg		95	52 - 130
Pyrene	1.33	1.28		mg/Kg		96	48 - 115
Butyl benzyl phthalate	1.33	1.28		mg/Kg		96	53 - 115
3,3'-Dichlorobenzidine	1.33	1.07		mg/Kg		80	42 - 115
Benzo[a]anthracene	1.33	1.24		mg/Kg		93	55 - 115
Bis(2-ethylhexyl) phthalate	1.33	1.30		mg/Kg		97	53 - 115
Chrysene	1.33	1.27		mg/Kg		95	58 - 115
Di-n-octyl phthalate	1.33	1.29		mg/Kg		97	53 - 115
Benzo[b]fluoranthene	1.33	1.28		mg/Kg		96	50 - 119
Benzo[a]pyrene	1.33	1.24		mg/Kg		93	57 - 122
Benzo[k]fluoranthene	1.33	1.22		mg/Kg		92	55 - 120
Indeno[1,2,3-cd]pyrene	1.33	1.28		mg/Kg		96	56 - 115
Benzo[g,h,i]perylene	1.33	1.29		mg/Kg		97	56 - 115
Benzoic acid	1.33	1.20		mg/Kg		90	10 - 115
Azobenzene	1.33	1.28		mg/Kg		96	52 - 115
Dibenz(a,h)anthracene	1.33	1.29		mg/Kg		96	57 - 121

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

**Lab Sample ID: LCS 720-193152/2-A**  
**Matrix: Solid**  
**Analysis Batch: 193205**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 193152**

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	73		21 - 98
2-Fluorobiphenyl	85		30 - 112
Terphenyl-d14	93		32 - 117
2-Fluorophenol	83		28 - 98
Phenol-d5	81		23 - 101
2,4,6-Tribromophenol	96		37 - 114

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 720-193153/1-A**  
**Matrix: Solid**  
**Analysis Batch: 193108**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 193153**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		11/24/15 13:14	11/25/15 00:11	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		11/24/15 13:14	11/25/15 00:11	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Capric Acid (Surr)	0		0 - 1	11/24/15 13:14	11/25/15 00:11	1
p-Terphenyl	103		38 - 148	11/24/15 13:14	11/25/15 00:11	1

**Lab Sample ID: LCS 720-193153/2-A**  
**Matrix: Solid**  
**Analysis Batch: 193108**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 193153**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Diesel Range Organics [C10-C28]	83.3	59.6		mg/Kg		71		36 - 112

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
p-Terphenyl	95		38 - 148

## Method: 8081A - Organochlorine Pesticides (GC)

**Lab Sample ID: MB 720-193126/1-A**  
**Matrix: Solid**  
**Analysis Batch: 193186**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 193126**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aldrin	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
Dieldrin	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
Endrin aldehyde	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
Endrin	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
Endrin ketone	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
Heptachlor	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
Heptachlor epoxide	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: MB 720-193126/1-A**  
**Matrix: Solid**  
**Analysis Batch: 193186**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 193126**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4,4'-DDT	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
4,4'-DDE	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
4,4'-DDD	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
Endosulfan I	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
Endosulfan II	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
alpha-BHC	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
beta-BHC	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
delta-BHC	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
Endosulfan sulfate	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
Methoxychlor	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
Toxaphene	ND		40		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
Chlordane (technical)	ND		40		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
alpha-Chlordane	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
gamma-Chlordane	ND		2.0		ug/Kg		11/24/15 09:43	11/25/15 03:55	1
Surrogate	MB	MB	Limits			D	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
Tetrachloro-m-xylene	104		57 - 122				11/24/15 09:43	11/25/15 03:55	1
DCB Decachlorobiphenyl	116		21 - 136				11/24/15 09:43	11/25/15 03:55	1

**Lab Sample ID: LCS 720-193126/2-A**  
**Matrix: Solid**  
**Analysis Batch: 193186**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 193126**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aldrin	16.7	17.7		ug/Kg		106	65 - 120
Dieldrin	16.7	18.9		ug/Kg		114	72 - 120
Endrin aldehyde	16.7	19.5		ug/Kg		117	68 - 120
Endrin	16.7	18.4		ug/Kg		111	68 - 120
Endrin ketone	16.7	19.8		ug/Kg		119	84 - 133
Heptachlor	16.7	18.4		ug/Kg		110	69 - 120
Heptachlor epoxide	16.7	18.9		ug/Kg		113	68 - 120
4,4'-DDT	16.7	18.5		ug/Kg		111	63 - 127
4,4'-DDE	16.7	19.7		ug/Kg		118	84 - 126
4,4'-DDD	16.7	20.7		ug/Kg		124	85 - 128
Endosulfan I	16.7	18.6		ug/Kg		111	62 - 120
Endosulfan II	16.7	19.4		ug/Kg		116	65 - 120
alpha-BHC	16.7	17.2		ug/Kg		103	62 - 120
beta-BHC	16.7	18.4		ug/Kg		111	74 - 124
gamma-BHC (Lindane)	16.7	17.7		ug/Kg		106	72 - 120
delta-BHC	16.7	14.4		ug/Kg		86	43 - 125
Endosulfan sulfate	16.7	18.2		ug/Kg		109	84 - 126
Methoxychlor	16.7	21.9		ug/Kg		131	71 - 132
alpha-Chlordane	16.7	19.1		ug/Kg		114	70 - 120
gamma-Chlordane	16.7	18.9		ug/Kg		113	68 - 120

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: LCS 720-193126/2-A**  
**Matrix: Solid**  
**Analysis Batch: 193186**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 193126**

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene	105		57 - 122
DCB Decachlorobiphenyl	127		21 - 136

**Lab Sample ID: 720-68752-15 MS**  
**Matrix: Solid**  
**Analysis Batch: 193186**

**Client Sample ID: S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1**  
**Prep Type: Total/NA**  
**Prep Batch: 193126**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	Limits	RPD	Limit
				Result	Qualifier						
Aldrin	ND		16.6	18.2		ug/Kg		109	53 - 120		
Dieldrin	ND		16.6	19.9		ug/Kg		120	46 - 130		
Endrin aldehyde	ND		16.6	18.9		ug/Kg		114	40 - 120		
Endrin	ND		16.6	20.6		ug/Kg		124	32 - 143		
Endrin ketone	ND	F1	16.6	21.8	F1	ug/Kg		131	40 - 120		
Heptachlor	ND		16.6	18.9		ug/Kg		114	52 - 120		
Heptachlor epoxide	ND		16.6	19.6		ug/Kg		118	40 - 120		
4,4'-DDT	3.1		16.6	23.6		ug/Kg		124	17 - 144		
4,4'-DDE	ND		16.6	21.3		ug/Kg		119	40 - 120		
4,4'-DDD	ND	F1	16.6	22.5	F1	ug/Kg		130	40 - 120		
Endosulfan I	ND		16.6	19.3		ug/Kg		116	40 - 120		
Endosulfan II	ND		16.6	19.7		ug/Kg		118	40 - 120		
alpha-BHC	ND		16.6	17.2		ug/Kg		104	40 - 120		
beta-BHC	ND		16.6	20.8	F1	ug/Kg		125	40 - 120		
gamma-BHC (Lindane)	ND		16.6	18.5		ug/Kg		111	58 - 120		
delta-BHC	ND		16.6	16.0		ug/Kg		96	40 - 120		
Endosulfan sulfate	ND		16.6	19.2		ug/Kg		115	40 - 120		
Methoxychlor	ND	F1	16.6	24.6	F1	ug/Kg		148	40 - 120		
alpha-Chlordane	ND	F1	16.6	21.1	F1	ug/Kg		127	40 - 120		
gamma-Chlordane	ND	F1	16.6	22.7	F1	ug/Kg		137	40 - 120		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene	106		57 - 122
DCB Decachlorobiphenyl	126		21 - 136

**Lab Sample ID: 720-68752-15 MSD**  
**Matrix: Solid**  
**Analysis Batch: 193186**

**Client Sample ID: S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1**  
**Prep Type: Total/NA**  
**Prep Batch: 193126**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	Limits	RPD	Limit
				Result	Qualifier						
Aldrin	ND		16.3	17.6		ug/Kg		108	53 - 120	3	20
Dieldrin	ND		16.3	18.9		ug/Kg		116	46 - 130	5	20
Endrin aldehyde	ND		16.3	17.9		ug/Kg		110	40 - 120	5	20
Endrin	ND		16.3	18.8		ug/Kg		115	32 - 143	8	20
Endrin ketone	ND	F1	16.3	20.5	F1	ug/Kg		126	40 - 120	6	20
Heptachlor	ND		16.3	18.7		ug/Kg		115	52 - 120	1	20
Heptachlor epoxide	ND		16.3	19.9	F1	ug/Kg		122	40 - 120	1	20
4,4'-DDT	3.1		16.3	21.9		ug/Kg		116	17 - 144	7	20
4,4'-DDE	ND		16.3	20.9		ug/Kg		119	40 - 120	2	20
4,4'-DDD	ND	F1	16.3	21.0	F1	ug/Kg		124	40 - 120	7	20

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: 720-68752-15 MSD**

**Matrix: Solid**

**Analysis Batch: 193186**

**Client Sample ID: S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1**

**Prep Type: Total/NA**

**Prep Batch: 193126**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Endosulfan I	ND		16.3	18.0		ug/Kg		111	40 - 120	7	20
Endosulfan II	ND		16.3	18.2		ug/Kg		112	40 - 120	8	30
alpha-BHC	ND		16.3	16.5		ug/Kg		101	40 - 120	4	20
beta-BHC	ND		16.3	22.1	F1	ug/Kg		136	40 - 120	6	20
gamma-BHC (Lindane)	ND		16.3	18.9		ug/Kg		116	58 - 120	2	20
delta-BHC	ND		16.3	15.6		ug/Kg		96	40 - 120	3	20
Endosulfan sulfate	ND		16.3	18.6		ug/Kg		114	40 - 120	3	20
Methoxychlor	ND	F1	16.3	23.9	F1	ug/Kg		147	40 - 120	3	20
alpha-Chlordane	ND	F1	16.3	20.0	F1	ug/Kg		123	40 - 120	5	20
gamma-Chlordane	ND	F1	16.3	21.4	F1	ug/Kg		131	40 - 120	6	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	107		57 - 122
DCB Decachlorobiphenyl	126		21 - 136

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 720-193128/1-A**

**Matrix: Solid**

**Analysis Batch: 193109**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 193128**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		50		ug/Kg		11/24/15 09:54	11/25/15 00:29	1
PCB-1221	ND		50		ug/Kg		11/24/15 09:54	11/25/15 00:29	1
PCB-1232	ND		50		ug/Kg		11/24/15 09:54	11/25/15 00:29	1
PCB-1242	ND		50		ug/Kg		11/24/15 09:54	11/25/15 00:29	1
PCB-1248	ND		50		ug/Kg		11/24/15 09:54	11/25/15 00:29	1
PCB-1254	ND		50		ug/Kg		11/24/15 09:54	11/25/15 00:29	1
PCB-1260	ND		50		ug/Kg		11/24/15 09:54	11/25/15 00:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	89		45 - 132	11/24/15 09:54	11/25/15 00:29	1
DCB Decachlorobiphenyl	95		42 - 146	11/24/15 09:54	11/25/15 00:29	1

**Lab Sample ID: LCS 720-193128/2-A**

**Matrix: Solid**

**Analysis Batch: 193109**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 193128**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
PCB-1016	133	121		ug/Kg		91	65 - 121	
PCB-1260	133	120		ug/Kg		90	68 - 127	

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	92		45 - 132
DCB Decachlorobiphenyl	95		42 - 146

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: 720-68752-15 MS**

**Matrix: Solid**  
**Analysis Batch: 193109**

**Client Sample ID: S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1**

**Prep Type: Total/NA**  
**Prep Batch: 193128**

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
PCB-1016	ND		133	117		ug/Kg		88	69 - 120
PCB-1260	ND		133	119		ug/Kg		89	73 - 114
<b>MS MS</b>									
Surrogate	%Recovery	Qualifier	Limits						
Tetrachloro-m-xylene	87		45 - 132						
DCB Decachlorobiphenyl	90		42 - 146						

**Lab Sample ID: 720-68752-15 MSD**

**Matrix: Solid**  
**Analysis Batch: 193109**

**Client Sample ID: S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1**

**Prep Type: Total/NA**  
**Prep Batch: 193128**

Analyte	Sample	Sample	Spike	MSD MSD		Unit	D	%Rec	Limits	RPD	RPD Limit
	Result	Qualifier		Result	Qualifier						
PCB-1016	ND		132	121		ug/Kg		91	69 - 120	3	20
PCB-1260	ND		132	119		ug/Kg		90	73 - 114	0	20
<b>MSD MSD</b>											
Surrogate	%Recovery	Qualifier	Limits								
Tetrachloro-m-xylene	91		45 - 132								
DCB Decachlorobiphenyl	92		42 - 146								

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 720-193069/1-A**

**Matrix: Solid**  
**Analysis Batch: 193244**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**  
**Prep Batch: 193069**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	ND		0.50		mg/Kg		11/23/15 14:53	11/25/15 17:08	1
Arsenic	ND		1.0		mg/Kg		11/23/15 14:53	11/25/15 17:08	1
Beryllium	ND		0.10		mg/Kg		11/23/15 14:53	11/25/15 17:08	1
Cadmium	ND		0.13		mg/Kg		11/23/15 14:53	11/25/15 17:08	1
Chromium	ND		0.50		mg/Kg		11/23/15 14:53	11/25/15 17:08	1
Cobalt	ND		0.20		mg/Kg		11/23/15 14:53	11/25/15 17:08	1
Copper	ND		1.5		mg/Kg		11/23/15 14:53	11/25/15 17:08	1
Lead	ND		0.50		mg/Kg		11/23/15 14:53	11/25/15 17:08	1
Nickel	ND		0.50		mg/Kg		11/23/15 14:53	11/25/15 17:08	1
Selenium	ND		1.0		mg/Kg		11/23/15 14:53	11/25/15 17:08	1
Silver	ND		0.25		mg/Kg		11/23/15 14:53	11/25/15 17:08	1
Thallium	ND		0.50		mg/Kg		11/23/15 14:53	11/25/15 17:08	1
Vanadium	ND		0.50		mg/Kg		11/23/15 14:53	11/25/15 17:08	1
Zinc	ND		1.5		mg/Kg		11/23/15 14:53	11/25/15 17:08	1

**Lab Sample ID: MB 720-193069/1-A**

**Matrix: Solid**  
**Analysis Batch: 193280**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**  
**Prep Batch: 193069**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	ND		0.50		mg/Kg		11/23/15 14:53	11/27/15 11:34	1

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# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: MB 720-193069/1-A**  
**Matrix: Solid**  
**Analysis Batch: 193280**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 193069**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	ND		0.50		mg/Kg		11/23/15 14:53	11/27/15 11:34	1

**Lab Sample ID: LCS 720-193069/2-A**  
**Matrix: Solid**  
**Analysis Batch: 193244**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 193069**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	45.8		mg/Kg		92	80 - 120
Arsenic	50.0	46.1		mg/Kg		92	80 - 120
Beryllium	50.0	43.2		mg/Kg		86	80 - 120
Cadmium	50.0	48.6		mg/Kg		97	80 - 120
Chromium	50.0	45.3		mg/Kg		91	80 - 120
Cobalt	50.0	48.1		mg/Kg		96	80 - 120
Copper	50.0	45.4		mg/Kg		91	80 - 120
Lead	50.0	48.5		mg/Kg		97	80 - 120
Nickel	50.0	48.9		mg/Kg		98	80 - 120
Selenium	50.0	46.3		mg/Kg		93	80 - 120
Silver	25.0	24.3		mg/Kg		97	80 - 120
Thallium	50.0	48.7		mg/Kg		97	80 - 120
Vanadium	50.0	46.8		mg/Kg		94	80 - 120
Zinc	50.0	49.4		mg/Kg		99	80 - 120

**Lab Sample ID: LCS 720-193069/2-A**  
**Matrix: Solid**  
**Analysis Batch: 193280**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 193069**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Barium	50.0	46.7		mg/Kg		93	80 - 120
Molybdenum	50.0	48.8		mg/Kg		98	80 - 120

**Lab Sample ID: LCSD 720-193069/3-A**  
**Matrix: Solid**  
**Analysis Batch: 193244**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 193069**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	50.0	46.6		mg/Kg		93	80 - 120	2	20
Arsenic	50.0	46.6		mg/Kg		93	80 - 120	1	20
Beryllium	50.0	45.3		mg/Kg		91	80 - 120	5	20
Cadmium	50.0	49.1		mg/Kg		98	80 - 120	1	20
Chromium	50.0	46.0		mg/Kg		92	80 - 120	1	20
Cobalt	50.0	48.7		mg/Kg		97	80 - 120	1	20
Copper	50.0	46.1		mg/Kg		92	80 - 120	1	20
Lead	50.0	49.1		mg/Kg		98	80 - 120	1	20
Nickel	50.0	49.4		mg/Kg		99	80 - 120	1	20
Selenium	50.0	47.2		mg/Kg		94	80 - 120	2	20
Silver	25.0	24.6		mg/Kg		98	80 - 120	1	20
Thallium	50.0	49.1		mg/Kg		98	80 - 120	1	20
Vanadium	50.0	47.6		mg/Kg		95	80 - 120	2	20
Zinc	50.0	49.9		mg/Kg		100	80 - 120	1	20

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# QC Sample Results

Client: Ninyo & Moore  
 Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 720-193069/3-A  
 Matrix: Solid  
 Analysis Batch: 193280

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 193069

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Barium	50.0	45.0		mg/Kg		90	80 - 120	4	20
Molybdenum	50.0	48.3		mg/Kg		97	80 - 120	1	20

## Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-193072/1-A  
 Matrix: Solid  
 Analysis Batch: 193236

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 193072

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		11/23/15 15:06	11/25/15 14:49	1

Lab Sample ID: LCS 720-193072/2-A  
 Matrix: Solid  
 Analysis Batch: 193236

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 193072

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.833	0.867		mg/Kg		104	80 - 120

Lab Sample ID: LCSD 720-193072/3-A  
 Matrix: Solid  
 Analysis Batch: 193236

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 193072

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.833	0.858		mg/Kg		103	80 - 120	1	20

# QC Association Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## GC/MS VOA

### Prep Batch: 192876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-1	S-1-A-2	Total/NA	Solid	5030B	
720-68752-6	S-2-A-2,	Total/NA	Solid	5030B	
720-68752-11	S-3-A-2	Total/NA	Solid	5030B	
720-68752-16	S-4-A-2	Total/NA	Solid	5030B	
720-68752-21	SY-1-1	Total/NA	Solid	5030B	

### Analysis Batch: 193082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-1	S-1-A-2	Total/NA	Solid	8260B	192876
720-68752-6	S-2-A-2,	Total/NA	Solid	8260B	192876
720-68752-11	S-3-A-2	Total/NA	Solid	8260B	192876
720-68752-16	S-4-A-2	Total/NA	Solid	8260B	192876
720-68752-21	SY-1-1	Total/NA	Solid	8260B	192876
LCS 720-193082/6	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-193082/8	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-193082/7	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCSD 720-193082/9	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-193082/5	Method Blank	Total/NA	Solid	8260B	

### Analysis Batch: 193165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-21	SY-1-1	Total/NA	Solid	8260B	193184
LCS 720-193165/5	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-193165/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-193165/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCSD 720-193165/8	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-193165/4	Method Blank	Total/NA	Solid	8260B	

### Prep Batch: 193184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-21	SY-1-1	Total/NA	Solid	5030B	

## GC/MS Semi VOA

### Prep Batch: 193152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-1	S-1-A-2	Total/NA	Solid	3546	
720-68752-6	S-2-A-2,	Total/NA	Solid	3546	
720-68752-11	S-3-A-2	Total/NA	Solid	3546	
720-68752-16	S-4-A-2	Total/NA	Solid	3546	
720-68752-21	SY-1-1	Total/NA	Solid	3546	
LCS 720-193152/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 720-193152/1-A	Method Blank	Total/NA	Solid	3546	

### Analysis Batch: 193205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-1	S-1-A-2	Total/NA	Solid	8270C	193152
720-68752-6	S-2-A-2,	Total/NA	Solid	8270C	193152
720-68752-16	S-4-A-2	Total/NA	Solid	8270C	193152
720-68752-21	SY-1-1	Total/NA	Solid	8270C	193152

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# QC Association Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 193205 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-193152/2-A	Lab Control Sample	Total/NA	Solid	8270C	193152
MB 720-193152/1-A	Method Blank	Total/NA	Solid	8270C	193152

### Analysis Batch: 193271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-11	S-3-A-2	Total/NA	Solid	8270C	193152

## GC Semi VOA

### Analysis Batch: 193108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-193153/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	193153
MB 720-193153/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	193153

### Analysis Batch: 193109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-15	S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1	Total/NA	Solid	8082	193128
720-68752-15 MS	S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1	Total/NA	Solid	8082	193128
720-68752-15 MSD	S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1	Total/NA	Solid	8082	193128
LCS 720-193128/2-A	Lab Control Sample	Total/NA	Solid	8082	193128
MB 720-193128/1-A	Method Blank	Total/NA	Solid	8082	193128

### Analysis Batch: 193110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-5	S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1	Total/NA	Solid	8082	193128
720-68752-10	S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5	Total/NA	Solid	8082	193128
720-68752-20	S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5	Total/NA	Solid	8082	193128
720-68752-25	SY-1-1, SY-2-1. SY-3-1, SY-4-2	Total/NA	Solid	8082	193128

### Prep Batch: 193126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-5	S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1	Total/NA	Solid	3546	
720-68752-10	S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5	Total/NA	Solid	3546	
720-68752-15	S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1	Total/NA	Solid	3546	
720-68752-15 MS	S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1	Total/NA	Solid	3546	
720-68752-15 MSD	S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1	Total/NA	Solid	3546	
720-68752-20	S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5	Total/NA	Solid	3546	
720-68752-25	SY-1-1, SY-2-1. SY-3-1, SY-4-2	Total/NA	Solid	3546	
LCS 720-193126/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 720-193126/1-A	Method Blank	Total/NA	Solid	3546	

### Prep Batch: 193128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-5	S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1	Total/NA	Solid	3546	
720-68752-10	S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5	Total/NA	Solid	3546	
720-68752-15	S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1	Total/NA	Solid	3546	
720-68752-15 MS	S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1	Total/NA	Solid	3546	
720-68752-15 MSD	S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1	Total/NA	Solid	3546	
720-68752-20	S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5	Total/NA	Solid	3546	
720-68752-25	SY-1-1, SY-2-1. SY-3-1, SY-4-2	Total/NA	Solid	3546	

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# QC Association Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## GC Semi VOA (Continued)

### Prep Batch: 193128 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-193128/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 720-193128/1-A	Method Blank	Total/NA	Solid	3546	

### Prep Batch: 193153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-5	S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1	Silica Gel Cleanup	Solid	3546	
720-68752-10	S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5	Silica Gel Cleanup	Solid	3546	
720-68752-15	S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1	Silica Gel Cleanup	Solid	3546	
720-68752-20	S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5	Silica Gel Cleanup	Solid	3546	
720-68752-25	SY-1-1, SY-2-1. SY-3-1, SY-4-2	Silica Gel Cleanup	Solid	3546	
LCS 720-193153/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
MB 720-193153/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

### Analysis Batch: 193186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-5	S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1	Total/NA	Solid	8081A	193126
720-68752-10	S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5	Total/NA	Solid	8081A	193126
720-68752-15	S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1	Total/NA	Solid	8081A	193126
720-68752-15 MS	S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1	Total/NA	Solid	8081A	193126
720-68752-15 MSD	S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1	Total/NA	Solid	8081A	193126
720-68752-20	S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5	Total/NA	Solid	8081A	193126
720-68752-25	SY-1-1, SY-2-1. SY-3-1, SY-4-2	Total/NA	Solid	8081A	193126
LCS 720-193126/2-A	Lab Control Sample	Total/NA	Solid	8081A	193126
MB 720-193126/1-A	Method Blank	Total/NA	Solid	8081A	193126

### Analysis Batch: 193189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-5	S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1	Silica Gel Cleanup	Solid	8015B	193153
720-68752-10	S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5	Silica Gel Cleanup	Solid	8015B	193153
720-68752-15	S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1	Silica Gel Cleanup	Solid	8015B	193153
720-68752-20	S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5	Silica Gel Cleanup	Solid	8015B	193153
720-68752-25	SY-1-1, SY-2-1. SY-3-1, SY-4-2	Silica Gel Cleanup	Solid	8015B	193153

## Metals

### Prep Batch: 193069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-5	S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1	Total/NA	Solid	3050B	
720-68752-10	S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5	Total/NA	Solid	3050B	
720-68752-15	S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1	Total/NA	Solid	3050B	
720-68752-20	S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5	Total/NA	Solid	3050B	
720-68752-25	SY-1-1, SY-2-1. SY-3-1, SY-4-2	Total/NA	Solid	3050B	
LCS 720-193069/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-193069/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 720-193069/1-A	Method Blank	Total/NA	Solid	3050B	

### Prep Batch: 193072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-5	S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1	Total/NA	Solid	7471A	
720-68752-10	S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5	Total/NA	Solid	7471A	

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# QC Association Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## Metals (Continued)

### Prep Batch: 193072 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-15	S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1	Total/NA	Solid	7471A	
720-68752-20	S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5	Total/NA	Solid	7471A	
720-68752-25	SY-1-1, SY-2-1, SY-3-1, SY-4-2	Total/NA	Solid	7471A	
LCS 720-193072/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-193072/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-193072/1-A	Method Blank	Total/NA	Solid	7471A	

### Analysis Batch: 193236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-5	S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1	Total/NA	Solid	7471A	193072
720-68752-10	S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5	Total/NA	Solid	7471A	193072
720-68752-15	S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1	Total/NA	Solid	7471A	193072
720-68752-20	S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5	Total/NA	Solid	7471A	193072
720-68752-25	SY-1-1, SY-2-1, SY-3-1, SY-4-2	Total/NA	Solid	7471A	193072
LCS 720-193072/2-A	Lab Control Sample	Total/NA	Solid	7471A	193072
LCSD 720-193072/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	193072
MB 720-193072/1-A	Method Blank	Total/NA	Solid	7471A	193072

### Analysis Batch: 193244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-5	S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1	Total/NA	Solid	6010B	193069
720-68752-10	S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5	Total/NA	Solid	6010B	193069
720-68752-15	S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1	Total/NA	Solid	6010B	193069
720-68752-20	S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5	Total/NA	Solid	6010B	193069
720-68752-25	SY-1-1, SY-2-1, SY-3-1, SY-4-2	Total/NA	Solid	6010B	193069
LCS 720-193069/2-A	Lab Control Sample	Total/NA	Solid	6010B	193069
LCSD 720-193069/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	193069
MB 720-193069/1-A	Method Blank	Total/NA	Solid	6010B	193069

### Analysis Batch: 193280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-5	S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1	Total/NA	Solid	6010B	193069
720-68752-10	S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5	Total/NA	Solid	6010B	193069
720-68752-15	S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1	Total/NA	Solid	6010B	193069
720-68752-20	S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5	Total/NA	Solid	6010B	193069
720-68752-25	SY-1-1, SY-2-1, SY-3-1, SY-4-2	Total/NA	Solid	6010B	193069
LCS 720-193069/2-A	Lab Control Sample	Total/NA	Solid	6010B	193069
LCSD 720-193069/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	193069
MB 720-193069/1-A	Method Blank	Total/NA	Solid	6010B	193069

### Analysis Batch: 193285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-20	S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5	Total/NA	Solid	6010B	193069

TestAmerica Pleasanton

# Lab Chronicle

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Client Sample ID: S-1-A-2**

**Date Collected: 11/19/15 11:01**

**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-1**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			192876	11/19/15 22:02	JRM	TAL PLS
Total/NA	Analysis	8260B		1	193082	11/23/15 22:49	PRD	TAL PLS
Total/NA	Prep	3546			193152	11/24/15 13:09	DFR	TAL PLS
Total/NA	Analysis	8270C		2	193205	11/26/15 00:12	MQL	TAL PLS

**Client Sample ID: S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1**

**Date Collected: 11/19/15 13:35**

**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-5**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			193153	11/24/15 13:14	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		2	193189	11/25/15 19:04	DCH	TAL PLS
Total/NA	Prep	3546			193126	11/24/15 09:43	DFR	TAL PLS
Total/NA	Analysis	8081A		1	193186	11/25/15 10:24	MQL	TAL PLS
Total/NA	Prep	3546			193128	11/24/15 09:54	DFR	TAL PLS
Total/NA	Analysis	8082		1	193110	11/25/15 01:19	DCH	TAL PLS
Total/NA	Prep	3050B			193069	11/23/15 14:53	OBI	TAL PLS
Total/NA	Analysis	6010B		4	193244	11/25/15 18:17	EFH	TAL PLS
Total/NA	Prep	3050B			193069	11/23/15 14:53	OBI	TAL PLS
Total/NA	Analysis	6010B		1	193280	11/27/15 12:42	EFH	TAL PLS
Total/NA	Prep	7471A			193072	11/23/15 15:06	ASB	TAL PLS
Total/NA	Analysis	7471A		1	193236	11/25/15 15:33	SLK	TAL PLS

**Client Sample ID: S-2-A-2,**

**Date Collected: 11/19/15 08:43**

**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-6**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			192876	11/19/15 22:02	JRM	TAL PLS
Total/NA	Analysis	8260B		1	193082	11/23/15 23:20	PRD	TAL PLS
Total/NA	Prep	3546			193152	11/24/15 13:09	DFR	TAL PLS
Total/NA	Analysis	8270C		1	193205	11/25/15 19:28	MQL	TAL PLS

**Client Sample ID: S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5**

**Date Collected: 11/19/15 10:45**

**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-10**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			193153	11/24/15 13:14	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	193189	11/25/15 16:39	DCH	TAL PLS
Total/NA	Prep	3546			193126	11/24/15 09:43	DFR	TAL PLS
Total/NA	Analysis	8081A		1	193186	11/25/15 10:41	MQL	TAL PLS
Total/NA	Prep	3546			193128	11/24/15 09:54	DFR	TAL PLS

TestAmerica Pleasanton

# Lab Chronicle

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Client Sample ID: S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5**

**Lab Sample ID: 720-68752-10**

**Date Collected: 11/19/15 10:45**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082		1	193110	11/25/15 01:36	DCH	TAL PLS
Total/NA	Prep	3050B			193069	11/23/15 14:53	OBI	TAL PLS
Total/NA	Analysis	6010B		4	193244	11/25/15 18:22	EFH	TAL PLS
Total/NA	Prep	3050B			193069	11/23/15 14:53	OBI	TAL PLS
Total/NA	Analysis	6010B		4	193280	11/27/15 12:47	EFH	TAL PLS
Total/NA	Prep	7471A			193072	11/23/15 15:06	ASB	TAL PLS
Total/NA	Analysis	7471A		1	193236	11/25/15 15:40	SLK	TAL PLS

**Client Sample ID: S-3-A-2**

**Lab Sample ID: 720-68752-11**

**Date Collected: 11/19/15 10:20**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			192876	11/19/15 22:02	JRM	TAL PLS
Total/NA	Analysis	8260B		1	193082	11/23/15 23:49	PRD	TAL PLS
Total/NA	Prep	3546			193152	11/24/15 13:09	DFR	TAL PLS
Total/NA	Analysis	8270C		1	193271	11/27/15 14:17	JZT	TAL PLS

**Client Sample ID: S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1**

**Lab Sample ID: 720-68752-15**

**Date Collected: 11/19/15 10:20**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			193153	11/24/15 13:14	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	193189	11/25/15 16:15	DCH	TAL PLS
Total/NA	Prep	3546			193126	11/24/15 09:43	DFR	TAL PLS
Total/NA	Analysis	8081A		1	193186	11/25/15 05:05	MQL	TAL PLS
Total/NA	Prep	3546			193128	11/24/15 09:54	DFR	TAL PLS
Total/NA	Analysis	8082		1	193109	11/25/15 01:36	DCH	TAL PLS
Total/NA	Prep	3050B			193069	11/23/15 14:53	OBI	TAL PLS
Total/NA	Analysis	6010B		4	193244	11/25/15 18:26	EFH	TAL PLS
Total/NA	Prep	3050B			193069	11/23/15 14:53	OBI	TAL PLS
Total/NA	Analysis	6010B		1	193280	11/27/15 12:52	EFH	TAL PLS
Total/NA	Prep	7471A			193072	11/23/15 15:06	ASB	TAL PLS
Total/NA	Analysis	7471A		1	193236	11/25/15 15:42	SLK	TAL PLS

**Client Sample ID: S-4-A-2**

**Lab Sample ID: 720-68752-16**

**Date Collected: 11/19/15 11:40**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			192876	11/19/15 22:02	JRM	TAL PLS
Total/NA	Analysis	8260B		1	193082	11/24/15 00:20	PRD	TAL PLS

TestAmerica Pleasanton

# Lab Chronicle

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Client Sample ID: S-4-A-2**

**Date Collected: 11/19/15 11:40**

**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-16**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			193152	11/24/15 13:09	DFR	TAL PLS
Total/NA	Analysis	8270C		1	193205	11/25/15 16:26	MQL	TAL PLS

**Client Sample ID: S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5**

**Date Collected: 11/19/15 13:07**

**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-20**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			193153	11/24/15 13:14	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		2	193189	11/25/15 17:51	DCH	TAL PLS
Total/NA	Prep	3546			193126	11/24/15 09:43	DFR	TAL PLS
Total/NA	Analysis	8081A		1	193186	11/25/15 11:16	MQL	TAL PLS
Total/NA	Prep	3546			193128	11/24/15 09:54	DFR	TAL PLS
Total/NA	Analysis	8082		1	193110	11/25/15 02:09	DCH	TAL PLS
Total/NA	Prep	3050B			193069	11/23/15 14:53	OBI	TAL PLS
Total/NA	Analysis	6010B		4	193244	11/25/15 18:31	EFH	TAL PLS
Total/NA	Prep	3050B			193069	11/23/15 14:53	OBI	TAL PLS
Total/NA	Analysis	6010B		1	193280	11/27/15 12:57	EFH	TAL PLS
Total/NA	Prep	3050B			193069	11/23/15 14:53	OBI	TAL PLS
Total/NA	Analysis	6010B		1	193285	11/27/15 15:06	EFH	TAL PLS
Total/NA	Prep	7471A			193072	11/23/15 15:06	ASB	TAL PLS
Total/NA	Analysis	7471A		1	193236	11/25/15 15:44	SLK	TAL PLS

**Client Sample ID: SY-1-1**

**Date Collected: 11/19/15 14:55**

**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-21**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			192876	11/19/15 22:02	JRM	TAL PLS
Total/NA	Analysis	8260B		1	193082	11/24/15 00:50	PRD	TAL PLS
Total/NA	Prep	5030B			193184	11/24/15 22:14	LPL	TAL PLS
Total/NA	Analysis	8260B		1	193165	11/25/15 03:39	PRD	TAL PLS
Total/NA	Prep	3546			193152	11/24/15 13:09	DFR	TAL PLS
Total/NA	Analysis	8270C		20	193205	11/26/15 00:38	MQL	TAL PLS

**Client Sample ID: SY-1-1, SY-2-1, SY-3-1, SY-4-2**

**Date Collected: 11/19/15 15:10**

**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-25**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			193153	11/24/15 13:14	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		2	193189	11/25/15 17:27	DCH	TAL PLS
Total/NA	Prep	3546			193126	11/24/15 09:43	DFR	TAL PLS

TestAmerica Pleasanton

# Lab Chronicle

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

**Client Sample ID: SY-1-1, SY-2-1, SY-3-1, SY-4-2**

**Lab Sample ID: 720-68752-25**

**Date Collected: 11/19/15 15:10**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8081A		1	193186	11/25/15 10:59	MQL	TAL PLS
Total/NA	Prep	3546			193128	11/24/15 09:54	DFR	TAL PLS
Total/NA	Analysis	8082		1	193110	11/25/15 01:53	DCH	TAL PLS
Total/NA	Prep	3050B			193069	11/23/15 14:53	OBI	TAL PLS
Total/NA	Analysis	6010B		4	193244	11/25/15 18:36	EFH	TAL PLS
Total/NA	Prep	3050B			193069	11/23/15 14:53	OBI	TAL PLS
Total/NA	Analysis	6010B		4	193280	11/27/15 13:01	EFH	TAL PLS
Total/NA	Prep	7471A			193072	11/23/15 15:06	ASB	TAL PLS
Total/NA	Analysis	7471A		1	193236	11/25/15 15:47	SLK	TAL PLS

## Laboratory References:

= Asbestos TEM Laboratories, Inc., 630 BANCROFT WAY, Berkeley, CA 94710

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



# Certification Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

## Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

Analysis Method	Prep Method	Matrix	Analyte
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- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

# Method Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PLS
8270C	Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
CARB 435	General Sub Contract Method	NONE	

#### Protocol References:

NONE = NONE

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

= Asbestos TEM Laboratories, Inc., 630 BANCROFT WAY, Berkeley, CA 94710

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

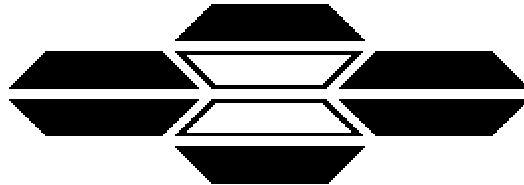
# Sample Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-68752-1	S-1-A-2	Solid	11/19/15 11:01	11/19/15 16:51
720-68752-5	S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1	Solid	11/19/15 13:35	11/19/15 16:51
720-68752-6	S-2-A-2,	Solid	11/19/15 08:43	11/19/15 16:51
720-68752-10	S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5	Solid	11/19/15 10:45	11/19/15 16:51
720-68752-11	S-3-A-2	Solid	11/19/15 10:20	11/19/15 16:51
720-68752-15	S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1	Solid	11/19/15 10:20	11/19/15 16:51
720-68752-16	S-4-A-2	Solid	11/19/15 11:40	11/19/15 16:51
720-68752-20	S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5	Solid	11/19/15 13:07	11/19/15 16:51
720-68752-21	SY-1-1	Solid	11/19/15 14:55	11/19/15 16:51
720-68752-25	SY-1-1, SY-2-1, SY-3-1, SY-4-2	Solid	11/19/15 15:10	11/19/15 16:51





## **ASBESTOS TEM LABORATORIES, INC.**

### **CARB Method 435 Polarized Light Microscopy Analytical Report**

**Laboratory Job # 1283-00568**

630 Bancroft Way  
Berkeley, CA 94710  
(510) 704-8930  
FAX (510) 704-8429

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ASBESTOS TEM LABORATORIES, INC

CA DPH ELAP  
Lab No. 1866



NVLAP Lab Code: 101891-0  
Berkeley, CA

Nov/25/2015

Dimple Sharma  
TestAmerica Laboratories, Inc.  
1220 Quarry Lane  
Pleasanton, CA 94566

RE: LABORATORY JOB # 1283-00568  
Polarized light microscopy analytical results for 5 bulk sample(s).  
Job Site: 720-68752-1  
Job No.: Turner/UCSF Benioff

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with the California Air Resources Board (ARB) Method 435 for the determination of asbestos in serpentine aggregate samples.

Prior to analysis, samples are logged-in and all data pertinent to the sample recorded. The samples are checked for damage or disruption of any chain-of-custody seals. A unique laboratory ID number is assigned to each sample. A hard copy log-in sheet containing all pertinent information concerning the sample is generated. This and all other relevant paper work are kept with the sample throughout the analytical procedures to assure proper analysis.

Sample preparation follows a standard CARB 435 prep method. The entire sample is dried at 135-150 C and then crushed to ~3/8" gravel size using a Bico Chipmunk crusher. If the submitted sample is >1 pint, the sample was split using a 1/2" riffle splitter following ASTM Method C-702-98 to obtain a 1 pint aliquot. The entire 1 pint aliquot, or entire original sample, is then pulverized in a Bico Braun disc pulverizer calibrated to produce a nominal 200 mesh final product. If necessary, additional homogenization steps are undertaken using a 3/8" riffle splitter. Small aliquots are collected from throughout the pulverized material to create three separate microscope slide mounts containing the appropriate refractive index oil. The prepared slides are placed under a polarizing light microscope where standard mineralogical techniques are used to analyze the various materials present, including asbestos. If asbestos is identified and of less than 10% concentration by visual area estimate then an additional five sample mounts are prepared. Quantification of asbestos concentration is obtained using the standard CAL ARB Method 435 point count protocol. For samples observed to contain visible asbestos of less than 10% concentration, a point counting technique is used with 50 points counted on each of eight sample mounts for a total of 400 points. The data is then compiled into standard report format and subjected to a thorough quality assurance check before the information is released to the client.

While the CARB 435 method has much to commend it, there are a number of situations where it fails to provide sufficient accuracy to make a definitive determination of the presence/absence of asbestos and/or an accurate count of the asbestos concentration present in a given sample. These problems include, but are not limited to, 1) statistical uncertainty with samples containing <1% asbestos when too few particles are counted, 2) definitive identification and discrimination between various fibrous amphibole minerals such as tremolite/actinolite/hornblende and the "Libby amphiboles" such as tremolite/winchite/richterite/arfvedsonite, and C) small asbestiform fibers which are near or below the resolution limit of the PLM microscope such as those found in various California coast range serpentine bodies. In these cases, further analysis by transmission electron microscopy is recommended to obtain a more accurate result.

Sincerely Yours,

Lab Manager  
ASBESTOS TEM LABORATORIES, INC.

--- These results relate only to the samples tested and must not be reproduced, except in full, without the approval of the laboratory. ---

630 BANCROFT WAY • BERKELEY, CA 94710 • PH. (510) 704-8930 • FAX (510) 704-8429

With Branch Offices Located At: 1350 FREEPORT BLVD. UNIT 104, SPARKS, NV 89431

# POLARIZED LIGHT MICROSCOPY CARB 435 ANALYTICAL REPORT

Page: 1 of

Contact: Dimple Sharma	Samples Submitted: 5	Report No. 337744
Address: TestAmerica Laboratories, Inc. 1220 Quarry Lane Pleasanton, CA 94566	Samples Analyzed: 5	Date Submitted: Nov-20-15
	Job Site / No. Turner/UCSF Benioff 720-68752-1	Date Reported: Nov-25-15

SAMPLE ID	POINTS COUNTED	ASBESTOS %	TYPE	LOCATION / DESCRIPTION
S-1-A-2, S-1-B-1, S-1-C-1, Lab ID # 1283-00568-001	400 - Total Points	<0.25%	None Detected	720-68752-5 No Asbestos Detected - ARB Exception I
S-2-A-2, S-2-B-1, S-2-C-2, Lab ID # 1283-00568-002	400 - Total Points	<0.25%	None Detected	720-68752-10 No Asbestos Detected - ARB Exception I
S-3-A-2, S-3-B-2, S-3-C-2, Lab ID # 1283-00568-003	400 - Total Points	<0.25%	None Detected	720-68752-15 No Asbestos Detected - ARB Exception I
S-4-A-2, S-4-B-1.5, S-4-C-1.5, Lab ID # 1283-00568-004	400 - Total Points	<0.25%	None Detected	720-68752-20 No Asbestos Detected - ARB Exception
SY-1-1, SY-2-1, SY-3-1, SY-4-2 Lab ID # 1283-00568-005	400 - Total Points	<0.25%	None Detected	720-68752-25 No Asbestos Detected - ARB Exception I
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			

QC Reviewer *R. Mc. B...*

Analyst *Jo Ann H...*

**TestAmerica Pleasanton**

1220 Quarry Lane  
 Pleasanton, CA 94566  
 Phone (925) 494-1919 Fax (925) 600-3002

**Chain of Custody Record**



**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING

<b>Client Information (Sub Contract Lab)</b>		Sampler:	Lab P/N:	Carrier Tracking No(s):		COC No:
Shipping/Receiving		Sharma, Dimple	Dimple Sharma@dimple-sharma.com			720-268900_1
Company: Advestos TEM Laboratories, Inc.		Project #:			Page 1 of 1	Job #:
Address: 630 BANCROFT WAY, Berkeley		Due Date Requested: 11/25/2015				720-68752-1
City: Berkeley		TAT Requested (days):			<b>Analysis Requested</b>	
State, Zip: CA, 94710		PO #:				
Phone:		WD #:				
Email:		Project #:				
Project Name: Turner/UCSF Benlof		ISSOWN:				
Sample Identification - Client ID (Lab ID)		Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)		Total Number of containers	
S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1 (720-68752-5)	11/19/15	13:35	Solid		X	1
S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5 (720-68752-10)	11/19/15	10:45	Solid		X	1
S-3-A-2, S-3-B-2, S-3-C-2, S-3-D-1 (720-68752-15)	11/19/15	10:20	Solid		X	1
S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5 (720-68752-20)	11/19/15	13:07	Solid		X	1
SY-1-1, SY-2-1, SY-3-1, SY-4-2 (720-68752-25)	11/19/15	15:10	Solid		X	1
<b>Special Instructions/Note:</b>						
SUB (CARB 435) CARB 435						
<b>Special Instructions/Note:</b>						
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
<b>Special Instructions/QC Requirements:</b>						
<b>Possible Hazard Identification</b>						
<b>Uncollected</b>						
Deliverable Requested: I, II, III, IV, Other (specify)						
<b>Empty Kit Relinquished By:</b>		Date:	<b>Method of Shipment:</b>			
Relinquished by: <i>[Signature]</i>		11/20/15	1412			
Relinquished by: <i>[Signature]</i>		Date/Time:	Company:	Received by: <i>[Signature]</i>		Date/Time:
Relinquished by: <i>[Signature]</i>		Date/Time:	Company:	Received by: <i>[Signature]</i>		Date/Time:
Relinquished by: <i>[Signature]</i>		Date/Time:	Company:	Received by: <i>[Signature]</i>		Date/Time:
Custody Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s): °C and Other Remarks:		



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING  
**720-68752**

TESTAMERICA Pleasanton Chain of Custody  
 1220 Quarry Lane • Pleasanton CA 94566-4756  
 Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 165139

Date 11/19/15 Page 1 of 3

Report To:

Analysis Request

In: Jason Grant  
 Company: Niyyo & Moore  
 Address: 1456 Webster Oaks  
 Mail: jgrant@niyyoandmoore.com  
 If To: 402654001 Sampled By: EM  
 Phone: 510 343-3000

Sample ID	Date	Time	Mat	Preserv
*S-1-A-27	11/19	1101	S	-
S-1-B-1	11/19	1535	S	-
S-1-C-1	11/19	1325	S	-
S-1-D-1	11/19	1120	S	-
SRM Discrete Sample #1 Ten Composite 3 and 5 min				
*S-2-A-27	11/19	0845	S	-
S-2-B-1	11/19	0806	S	-
S-2-C-2	11/19	0900	S	-
S-2-D-1	11/19	1045	S	-

Volatile Organics GC/MS (VOCs)  
 EPA 8260B  
 HVOCS by  EPA 8260B  
 EPA 8260B:  Gas  BTEX  
 5 Oxygenates  DCA, EDB  Ethanol  
 TEPH EPA 8015B  Silica Gel  
 Diesel  Motor Oil  Other TEPH  
 SemiVolatile Organics GC/MS  
 EPA 8270C  
 PNA/PAH's by  8270C  
 8270C SIM  
 Oil and Grease  Petroleum  
 (EPA 1664/9071)  Total  
 Pesticides  EPA 8081  
 PCBs  EPA 8082  
 CAM17 Metals Title 22  
 (EPA 6010/7470/7471) Metals  
 Metals:  6010B  200.7  
 Lead  LUFT  RCRA   
 Other: \_\_\_\_\_  
 Metals:  6020  200.8  
 (ICP-MS)  
 W.E.T (STLC)  
 W.E.T (DI)  TCLP  
 Hex. Chrom by  EPA 7186  
 or EPA 7199  
 pH  9040  
 SM4500  
 Spec. Cond.  Alkalinity  
 TSS  SS  TDS  
 Anions:  Cl  SO<sub>4</sub>  NO<sub>3</sub>  F  
 Br  NO<sub>2</sub>  PO<sub>4</sub>  
 Perchlorate by EPA 314.0  
 COD  EPA 410.4  SM5220D  
 Turbidity  
 Asbestos by CARB  
435

Project Name / #	# of Containers	Head Space	Temp	1) Relinquished by:	2) Relinquished by:	3) Relinquished by:	Number of Containers
TURNER / USF/Benick			1.4°C	<u>Victor Rome</u> Signature Date: <u>11/19/15</u>	<u>Victor Rome</u> Signature Date: <u>11/19/15</u>	<u>Victor Rome</u> Signature Date: <u>11/19/15</u>	

1) Received by: Victor Rome Signature  
 Time: 1539  
 Date: 11/19/15  
 Company: TA

2) Received by: Jason Moore Signature  
 Time: 1651  
 Date: 11/19/15  
 Company: TA

3) Received by: John Muller Signature  
 Time: 1657  
 Date: 11-19-15  
 Company: TA

Credit Card: \_\_\_\_\_  
 V/N: \_\_\_\_\_  
 If Yes, please call with payment information ASAP

Report:  Routine  Level 3  Level 4  EDD  EDF  
 Special Instructions / Comments: \_\_\_\_\_  
 Global ID: \_\_\_\_\_

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

720-68752

TESTAMERICA Pleasanton Chain of Custody  
 1220 Quarry Lane • Pleasanton CA 94566-4756  
 Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 165139  
 Date: 11/19/15 Page 2 of 03

## Report To: Jason Grant

Company: Ninyo & Moore  
 Address: 1976 Webster St  
 Mail: jgrant@ninyoandmoore.com  
 II To: 402654001  
 Phone: 510 943 3000  
 Sampled By: FEM

Sample ID	Date	Time	Mat	Preserv	Volatile Organics GC/MS (VOCs) EPA 8260B	HVOCs by EPA 8260B	EPA 8260B: Gas BTEX, Oxygenates DCA, EDB, Ethanol	TEPH EPA 8015B, Diesel Motor Oil, Other	SemiVolatile Organics GC/MS EPA 8270C	PNA/PAH's by EPA 8270C, 8270C SIM	Oil and Grease (EPA 1664/9071) Petroleum Total	Pesticides EPA 8081, PCBs EPA 8082	CAM17 Metals (EPA 6010/7470/7471) Title 22 Metals	Metals: 6010B, 200.7, Lead, LUFT, RCRA, Other	Metals: 6020, 200.8 (ICP-MS)	W.E.T (STLC), W.E.T (DI), TCLP	Hex. Chrom by EPA 7196 or EPA 7199	pH: 9040, SM4500	Spec. Cond., Alkalinity, TSS, SS, TDS	Anions: Cl, SO4, NO3, F, Br, NO2, PO4	Perchlorate by EPA 314 0	COD: EPA 410.4, SM6220D, Turbidity	Asbestos by CHRB/35	Number of Containers		
*S-3-A-2-7	11/19	1020	S	-	X			X	X																1	
S-3-B-2	11/19	0920	S	-																						1
S-3-C-7	11/19	0545	S	-																						1
S-3-D-7	11/19	1001	S	-																						1
After Am disperse samples (#) composite samples for																										
*S-4-A-2-7	11/19	1140	S	-	X			X																		1
S-4-B-1.5	11/19	1307	S	-																						1
S-4-C-1.5	11/19	1230	S	-																						1
S-4-D-1.5	11/19	1153	S	-																						1

Project Name: Times/Use Report

Project Info: Sample Receipt

Project Name / Use	Head Space	Temp	# of Containers
1) Relinquished by: [Signature]		1530	
2) Relinquished by: [Signature]		1651	
3) Relinquished by: [Signature]			

Signature: Victor Ramo  
 Printed Name: Victor Ramo  
 Date: 11/19/15  
 Company: TA

Signature: [Signature]  
 Printed Name: [Name]  
 Date: 11/19/15  
 Company: TA

Signature: [Signature]  
 Printed Name: [Name]  
 Date: 11/19/15  
 Company: TA

Report:  Routine  Level 3  Level 4  EDU  EDF  
 Special Instructions / Comments: Global ID

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING  
**720-68752**

TESTAMERICA Pleasanton Chain of Custody  
 1220 Quarry Lane • Pleasanton CA 94566-4756  
 Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 165139

Date: 11/19/15 Page 03 of 03

Report To: Jason Grant Ninigo & Moore 1958 Webster Oakland igant@ninigoandmoore.com 402654001 Sampled By: FW Phone: 510 943 3000

Sample ID	Date	Time	Mat	Preserv	Volatile Organics GC/MS (VOCs) EPA 8260B	HVOCs by <input type="checkbox"/> EPA 8260B	EPA 8260B. <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> 5 Oxygenates <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethanol	TEPH EPA 8016B <input checked="" type="checkbox"/> Silica Gel <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Motor Oil <input type="checkbox"/> Other <u>TPH</u>	SemiVolatile Organics GC/MS EPA 8270C	PNA/PAH's by <input type="checkbox"/> 8270C <input type="checkbox"/> 8270C SIM	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1864/9071) <input type="checkbox"/> Total	Pesticides <input checked="" type="checkbox"/> EPA 8081 <input checked="" type="checkbox"/> EPA 8082	CAM17 Metals - <u>File 22</u> (EPA 6010/7470/7471) <u>Metals</u>	Metals. <input type="checkbox"/> 6010B <input type="checkbox"/> 200.7 <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other: _____	Metals. <input type="checkbox"/> 6020 <input type="checkbox"/> 200.8 (ICP-MS).	<input type="checkbox"/> W.E.T (STLC) <input type="checkbox"/> W.E.T (DI) <input type="checkbox"/> TCLP	Hex. Chrom by <input type="checkbox"/> EPA 7196 <input type="checkbox"/> or EPA 7199	pH <input type="checkbox"/> 9040 <input type="checkbox"/> SM4500	<input type="checkbox"/> Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> SS <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> PO <sub>4</sub>	<input type="checkbox"/> Perchlorate by EPA 314.0	COD <input type="checkbox"/> EPA 410.4 <input type="checkbox"/> SM5220D <input type="checkbox"/> Turbidity	Number of Containers		
*SY-1-1	11/19/15	15:30	S	-	X			X																	1
21 SY-2-1	11/19/15	15:30	S	-																					1
22 SY-3-1	11/19/15	15:00	S	-																					1
23 SY-4-1	11/19/15	15:10	S	-																					1
24 SY-4-2	11/19/15	15:10	S	-																					1

*Run Discrete Sample (\*) then Composite group and Run Pico*

*Asbestos by LARB 435*

## Project Info

Project Name: Turner/West  
 Head Space: Recess  
 O#: \_\_\_\_\_  
 Temp: \_\_\_\_\_

Project ID: \_\_\_\_\_  
 # of Containers: \_\_\_\_\_

Y/N: \_\_\_\_\_  
 If yes, please call with payment information ASAP

Report:  Routine  Level 3  Level 4  EDD  EDF  
 Special Instructions / Comments: 5-7 day TAT

Global ID: \_\_\_\_\_

See Terms and Conditions on reverse

## Sample Receipt

1) Relinquished by: Jason Grant 11/19/15  
 Signature: \_\_\_\_\_  
 Printed Name: Jason Grant  
 Date: 11/19/15  
 Company: Ninigo & Moore

2) Relinquished by: Victor Romo 11/19/15  
 Signature: \_\_\_\_\_  
 Printed Name: Victor Romo  
 Date: 11/19/15  
 Company: TA

3) Relinquished by: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Company: \_\_\_\_\_

1) Received by: Victor Romo 11/19/15  
 Signature: \_\_\_\_\_  
 Printed Name: Victor Romo  
 Date: 11/19/15  
 Company: TA

2) Received by: Jason Grant 11/19/15  
 Signature: \_\_\_\_\_  
 Printed Name: Jason Grant  
 Date: 11/19/15  
 Company: \_\_\_\_\_

3) Received by: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Company: \_\_\_\_\_

Sharma, Dimple

720-68752

**From:** Forrest McFarland <fmcfarland@ninyoandmoore.com>  
**Sent:** Friday, November 20, 2015 1:22 PM  
**To:** Sharma, Dimple  
**Subject:** RE: TestAmerica Sample Login Confirmation files from 720-68752 Turner/UCSF Benioff

Dimple-

Regarding sample S-2-A-2, yes, please run for VOCs by 8260B and SVOCs by 8270C as with the other discrete samples.

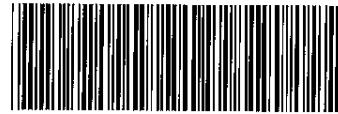
- 1) The sample with the time 1325 should be S-1-C-1. The sample with time 1335 should be S-1-B-1. Both samples are to be composited together with S-1-A-2 and S-1-D-1. I apologize for my poor handwriting. My tremor does seem to affect my handwriting when I am in a hurry.
- 2) S-4-C-1.5 is the correct sample name. S-4-C-2 does not exist.

And Dimple, on future bottle orders, we will need to have coolers for soil samples and not just one small cooler for the two groundwater samples.

Please return the two Acutest coolers I sent you on Wednesday to their office in Milpitas.

The red cooler I shipped you yesterday is my personal cooler. You do not need to return that one, as I will not be using it any longer.

Thanks,  
Forrest



720-68752 Chain of Custody

Forrest McFarland P.G.  
 Senior Project Geologist  
**Ninyo & Moore**  
 Geotechnical & Environmental Sciences Consultants  
 1956 Webster Street, Suite 400  
 Oakland, California 94612  
 (510) 343-3000 (x15213)  
 (510) 343-3001 (fax)  
 (510) 825-8358 Mobile  
[fmcfarland@ninyoandmoore.com](mailto:fmcfarland@ninyoandmoore.com)

New San Jose office  
 2149 O'Toole Avenue, Suite 10  
 San Jose, CA 95131  
 (408) 435-9000  
 (408) 435-9006 (Fax)

**Experience - Quality - Commitment**

**From:** Sharma, Dimple [mailto:dimple.sharma@testamericainc.com]  
**Sent:** Friday, November 20, 2015 11:31 AM  
**To:** Forrest McFarland; Jason Grant  
**Subject:** TestAmerica Sample Login Confirmation files from 720-68752 Turner/UCSF Benioff

Hello,

Attached, please find the Sample Confirmation files for job 720-68752; Turner/UCSF Benioff.  
 The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. TPH-Gas requested on composite Group S-2 but VOC's was not requested on \* S-2-A-2 like all other groups. Logged VOC+ TPH-Gas on \* S-2-



A-2.

1.) The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): S-1-B-1 The container labels list S-1-C-1, while the COC lists S-1-B-1. Received two jars with the same sample ID: S-1-C-1, the time on one is difficult to read on the label, labeled that one as S-1-B-1. The other jar the sample time is 13:25 and matches the COC sample time, labeled as S-1-C-1.

2.) The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): S-4-C-1:5 The container labels list S-4-C-2, while the COC lists S-4-C-1:5.

Please feel free to contact me if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: [Project Feedback](#)

**DIMPLE SHARMA**  
Senior Project Manager

**TestAmerica Pleasanton**  
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 925.484.1919  
[www.testamericainc.com](http://www.testamericainc.com)

Reference: [201420]  
Attachments: 3

# Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-68752-1

**Login Number: 68752**

**List Number: 1**

**Creator: Bullock, Tracy**

**List Source: TestAmerica Pleasanton**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

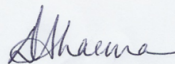
## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Pleasanton  
1220 Quarry Lane  
Pleasanton, CA 94566  
Tel: (925)484-1919

TestAmerica Job ID: 720-68752-2  
Client Project/Site: Turner/UCSF Benioff

For:  
Ninyo & Moore  
1956 Webster Street  
Suite 400  
Oakland, California 94612

Attn: Jason Grant



Authorized for release by:  
12/8/2015 9:05:25 AM

Dimple Sharma, Senior Project Manager  
(925)484-1919  
[dimple.sharma@testamericainc.com](mailto:dimple.sharma@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Definitions/Glossary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-2

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Case Narrative

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-2

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**Job ID: 720-68752-2**

---

**Laboratory: TestAmerica Pleasanton**

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**Narrative**

**Job Narrative**  
**720-68752-2**

**Comments**

No additional comments.

**Receipt**

The samples were received on 11/19/2015 4:51 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4° C.

**Metals**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**General Chemistry**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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# Detection Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-2

**Client Sample ID: S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1**

**Lab Sample ID: 720-68752-5**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	3.6		0.050		mg/L	1		6010B	STLC Citrate

**Client Sample ID: S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5**

**Lab Sample ID: 720-68752-10**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	9.8		0.050		mg/L	1		6010B	STLC Citrate

**Client Sample ID: S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5**

**Lab Sample ID: 720-68752-20**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	1.6		0.050		mg/L	1		6010B	STLC Citrate

**Client Sample ID: SY-1-1, SY-2-1, SY-3-1, SY-4-2**

**Lab Sample ID: 720-68752-25**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	4.9		0.050		mg/L	1		6010B	STLC Citrate

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-2

**Client Sample ID: S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1**

**Lab Sample ID: 720-68752-5**

**Date Collected: 11/19/15 13:35**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

**Method: 6010B - Metals (ICP) - STLC Citrate**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.6		0.050		mg/L		12/07/15 15:13	12/07/15 21:51	1

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# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-2

**Client Sample ID: S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5**

**Lab Sample ID: 720-68752-10**

**Date Collected: 11/19/15 10:45**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

**Method: 6010B - Metals (ICP) - STLC Citrate**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.8		0.050		mg/L		12/07/15 15:13	12/07/15 21:57	1

- 1
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# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-2

**Client Sample ID: S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5**

**Lab Sample ID: 720-68752-20**

**Date Collected: 11/19/15 13:07**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

**Method: 6010B - Metals (ICP) - STLC Citrate**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.6		0.050		mg/L		12/07/15 15:13	12/07/15 22:02	1

- 1
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# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-2

**Client Sample ID: SY-1-1, SY-2-1, SY-3-1, SY-4-2**

**Lab Sample ID: 720-68752-25**

**Date Collected: 11/19/15 15:10**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.050		mg/L		12/03/15 11:08	12/03/15 22:47	1

**Method: 6010B - Metals (ICP) - STLC Citrate**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.9		0.050		mg/L		12/07/15 15:13	12/07/15 22:07	1

# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-2

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 720-193526/1-A**  
**Matrix: Solid**  
**Analysis Batch: 193596**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 193526**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0050		mg/L		12/03/15 11:08	12/03/15 21:58	1

**Lab Sample ID: LCS 720-193526/2-A**  
**Matrix: Solid**  
**Analysis Batch: 193596**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 193526**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	1.00	0.956		mg/L		96	80 - 120

**Lab Sample ID: LCSD 720-193526/3-A**  
**Matrix: Solid**  
**Analysis Batch: 193596**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 193526**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	1.00	0.930		mg/L		93	80 - 120	3	20

**Lab Sample ID: MB 720-193709/1-A**  
**Matrix: Solid**  
**Analysis Batch: 193747**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 193709**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0050		mg/L		12/07/15 15:13	12/07/15 20:50	1

**Lab Sample ID: LCS 720-193709/2-A**  
**Matrix: Solid**  
**Analysis Batch: 193747**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 193709**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	1.00	0.900		mg/L		90	80 - 120

**Lab Sample ID: LCSD 720-193709/3-A**  
**Matrix: Solid**  
**Analysis Batch: 193747**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total Recoverable**  
**Prep Batch: 193709**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	1.00	0.900		mg/L		90	80 - 120	0	20

**Lab Sample ID: LB 720-193449/1-B**  
**Matrix: Solid**  
**Analysis Batch: 193596**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 193526**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.050		mg/L		12/03/15 11:08	12/03/15 22:03	1

**Lab Sample ID: LB4 720-193387/1-B**  
**Matrix: Solid**  
**Analysis Batch: 193747**

**Client Sample ID: Method Blank**  
**Prep Type: STLC Citrate**  
**Prep Batch: 193709**

Analyte	LB4 Result	LB4 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.050		mg/L		12/07/15 15:13	12/07/15 20:55	1

TestAmerica Pleasanton

# QC Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-2

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# QC Association Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-2

## Metals

### Leach Batch: 193387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-5	S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1	STLC Citrate	Solid	CA WET Citrate	
720-68752-10	S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5	STLC Citrate	Solid	CA WET Citrate	
720-68752-20	S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5	STLC Citrate	Solid	CA WET Citrate	
720-68752-25	SY-1-1, SY-2-1, SY-3-1, SY-4-2	STLC Citrate	Solid	CA WET Citrate	
LB4 720-193387/1-B	Method Blank	STLC Citrate	Solid	CA WET Citrate	

### Leach Batch: 193449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-25	SY-1-1, SY-2-1, SY-3-1, SY-4-2	TCLP	Solid	1311	
LB 720-193449/1-B	Method Blank	TCLP	Solid	1311	

### Prep Batch: 193526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-25	SY-1-1, SY-2-1, SY-3-1, SY-4-2	TCLP	Solid	3010A	193449
LB 720-193449/1-B	Method Blank	TCLP	Solid	3010A	193449
LCS 720-193526/2-A	Lab Control Sample	Total/NA	Solid	3010A	
LCSD 720-193526/3-A	Lab Control Sample Dup	Total/NA	Solid	3010A	
MB 720-193526/1-A	Method Blank	Total/NA	Solid	3010A	

### Analysis Batch: 193596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-25	SY-1-1, SY-2-1, SY-3-1, SY-4-2	TCLP	Solid	6010B	193526
LB 720-193449/1-B	Method Blank	TCLP	Solid	6010B	193526
LCS 720-193526/2-A	Lab Control Sample	Total/NA	Solid	6010B	193526
LCSD 720-193526/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	193526
MB 720-193526/1-A	Method Blank	Total/NA	Solid	6010B	193526

### Prep Batch: 193709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-5	S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1	STLC Citrate	Solid	3005A	193387
720-68752-10	S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5	STLC Citrate	Solid	3005A	193387
720-68752-20	S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5	STLC Citrate	Solid	3005A	193387
720-68752-25	SY-1-1, SY-2-1, SY-3-1, SY-4-2	STLC Citrate	Solid	3005A	193387
LB4 720-193387/1-B	Method Blank	STLC Citrate	Solid	3005A	193387
LCS 720-193709/2-A	Lab Control Sample	Total Recoverable	Solid	3005A	
LCSD 720-193709/3-A	Lab Control Sample Dup	Total Recoverable	Solid	3005A	
MB 720-193709/1-A	Method Blank	Total Recoverable	Solid	3005A	

### Analysis Batch: 193747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-5	S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1	STLC Citrate	Solid	6010B	193709
720-68752-10	S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5	STLC Citrate	Solid	6010B	193709
720-68752-20	S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5	STLC Citrate	Solid	6010B	193709
720-68752-25	SY-1-1, SY-2-1, SY-3-1, SY-4-2	STLC Citrate	Solid	6010B	193709
LB4 720-193387/1-B	Method Blank	STLC Citrate	Solid	6010B	193709
LCS 720-193709/2-A	Lab Control Sample	Total Recoverable	Solid	6010B	193709
LCSD 720-193709/3-A	Lab Control Sample Dup	Total Recoverable	Solid	6010B	193709
MB 720-193709/1-A	Method Blank	Total Recoverable	Solid	6010B	193709

TestAmerica Pleasanton

# Lab Chronicle

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-2

**Client Sample ID: S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1**

**Lab Sample ID: 720-68752-5**

**Date Collected: 11/19/15 13:35**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			193387	12/05/15 13:10	MJD	TAL PLS
STLC Citrate	Prep	3005A			193709	12/07/15 15:13	EFH	TAL PLS
STLC Citrate	Analysis	6010B		1	193747	12/07/15 21:51	SLK	TAL PLS

**Client Sample ID: S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5**

**Lab Sample ID: 720-68752-10**

**Date Collected: 11/19/15 10:45**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			193387	12/05/15 13:10	MJD	TAL PLS
STLC Citrate	Prep	3005A			193709	12/07/15 15:13	EFH	TAL PLS
STLC Citrate	Analysis	6010B		1	193747	12/07/15 21:57	SLK	TAL PLS

**Client Sample ID: S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5**

**Lab Sample ID: 720-68752-20**

**Date Collected: 11/19/15 13:07**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			193387	12/05/15 13:10	MJD	TAL PLS
STLC Citrate	Prep	3005A			193709	12/07/15 15:13	EFH	TAL PLS
STLC Citrate	Analysis	6010B		1	193747	12/07/15 22:02	SLK	TAL PLS

**Client Sample ID: SY-1-1, SY-2-1, SY-3-1, SY-4-2**

**Lab Sample ID: 720-68752-25**

**Date Collected: 11/19/15 15:10**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			193387	12/05/15 13:10	MJD	TAL PLS
STLC Citrate	Prep	3005A			193709	12/07/15 15:13	EFH	TAL PLS
STLC Citrate	Analysis	6010B		1	193747	12/07/15 22:07	SLK	TAL PLS
TCLP	Leach	1311			193449	12/02/15 18:28	OBI	TAL PLS
TCLP	Prep	3010A			193526	12/03/15 11:08	OBI	TAL PLS
TCLP	Analysis	6010B		1	193596	12/03/15 22:47	SLK	TAL PLS

**Laboratory References:**

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

# Certification Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-2

## Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16 *

Analysis Method	Prep Method	Matrix	Analyte
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\* Certification renewal pending - certification considered valid.



# Method Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-2

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Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS

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**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919





# Sample Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-68752-5	S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1	Solid	11/19/15 13:35	11/19/15 16:51
720-68752-10	S-2-A-2, S-2-B-1, S-2-C-2, S-2-D-1.5	Solid	11/19/15 10:45	11/19/15 16:51
720-68752-20	S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5	Solid	11/19/15 13:07	11/19/15 16:51
720-68752-25	SY-1-1, SY-2-1, SY-3-1, SY-4-2	Solid	11/19/15 15:10	11/19/15 16:51

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720-68752-2

Sharma, Dimple

**From:** Jason Grant <jgrant@ninyoandmoore.com>  
**Sent:** Monday, November 30, 2015 4:29 PM  
**To:** Sharma, Dimple  
**Cc:** Forrest McFarland  
**Subject:** RE: TestAmerica EDD and report files from 720-68752-1 Turner/UCSF Benioff

Hi Dimple,

Can you please have the following four samples analyzed for lead WET:

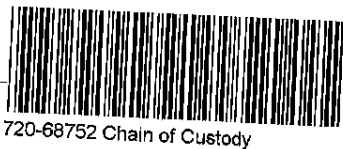
- S-1-A-2, S-1-B-1, S-1-C-1, S-1-D-1
- S-2-A-2, S-2-B-1, S-2-C-2, S-2-C-2, S-2-D-1.5
- S-4-A-2, S-4-B-1.5, S-4-C-1.5, S-4-D-1.5
- SY-1-1, SY-2-1, SY-3-1, SY-4-2

Also, I need sample SY-1-1, SY-2-1, SY-3-1, SY-4-2 analyzed for lead TCLP.

Thanks,

Jason

Jason Grant, P.E.  
Senior Engineer  
**Ninyo & Moore**  
Geotechnical & Environmental Sciences Consultants  
1956 Webster Street, Suite 400  
Oakland, California 94612  
(510) 343-3000 (x15202)  
(510) 343-3001 (Fax)  
[jgrant@ninyoandmoore.com](mailto:jgrant@ninyoandmoore.com)



**San Jose office**  
2149 O'Toole Avenue, Suite 30  
San Jose, CA 95131  
(408) 435-9000  
(408) 435-9006 (Fax)

**From:** Sharma, Dimple [mailto:dimple.sharma@testamericainc.com]  
**Sent:** Monday, November 30, 2015 9:31 AM  
**To:** Forrest McFarland; Jason Grant  
**Subject:** TestAmerica EDD and report files from 720-68752-1 Turner/UCSF Benioff

Hello,

Attached please find the EDD and report files for job 720-68752-1; Turner/UCSF Benioff

Please feel free to contact me if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: [Project Feedback](#)

## Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-68752-2

**Login Number: 68752**

**List Number: 1**

**Creator: Bullock, Tracy**

**List Source: TestAmerica Pleasanton**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

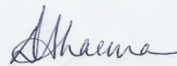
## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Pleasanton  
1220 Quarry Lane  
Pleasanton, CA 94566  
Tel: (925)484-1919

TestAmerica Job ID: 720-68752-3  
Client Project/Site: Turner/UCSF Benioff

For:  
Ninyo & Moore  
1956 Webster Street  
Suite 400  
Oakland, California 94612

Attn: Jason Grant



Authorized for release by:  
12/15/2015 4:57:26 PM

Dimple Sharma, Senior Project Manager  
(925)484-1919  
[dimple.sharma@testamericainc.com](mailto:dimple.sharma@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Definitions/Glossary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-3

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Case Narrative

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-3

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**Job ID: 720-68752-3**

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**Laboratory: TestAmerica Pleasanton**

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**Narrative**

**Job Narrative**  
**720-68752-3**

**Comments**

No additional comments.

**Receipt**

The samples were received on 11/19/2015 4:51 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4° C.

**Metals**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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# Detection Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-3

## Client Sample ID: S-2-A-2,

## Lab Sample ID: 720-68752-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	16		0.10		mg/L	10		6010B	STLC Citrate

## Client Sample ID: S-2-B-1,

## Lab Sample ID: 720-68752-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.58		0.10		mg/L	10		6010B	STLC Citrate

## Client Sample ID: S-2-C-2,

## Lab Sample ID: 720-68752-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.68		0.10		mg/L	10		6010B	STLC Citrate

## Client Sample ID: S-2-D-1.5

## Lab Sample ID: 720-68752-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.95		0.10		mg/L	10		6010B	STLC Citrate

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-3

**Client Sample ID: S-2-A-2,**  
**Date Collected: 11/19/15 08:43**  
**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-6**  
**Matrix: Solid**

**Method: 6010B - Metals (ICP) - STLC Citrate**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	16		0.10		mg/L			12/14/15 15:38	10

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# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-3

**Client Sample ID: S-2-B-1,**  
**Date Collected: 11/19/15 08:06**  
**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-7**  
**Matrix: Solid**

**Method: 6010B - Metals (ICP) - STLC Citrate**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.58		0.10		mg/L			12/14/15 15:41	10

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# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-3

**Client Sample ID: S-2-C-2,**  
**Date Collected: 11/19/15 09:00**  
**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-8**  
**Matrix: Solid**

**Method: 6010B - Metals (ICP) - STLC Citrate**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.68		0.10		mg/L			12/14/15 15:43	10

- 1
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# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-3

**Client Sample ID: S-2-D-1.5**

**Lab Sample ID: 720-68752-9**

**Date Collected: 11/19/15 10:45**

**Matrix: Solid**

**Date Received: 11/19/15 16:51**

**Method: 6010B - Metals (ICP) - STLC Citrate**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.95		0.10		mg/L			12/14/15 15:46	10

- 1
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# QC Sample Results

Client: Ninyo & Moore  
 Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-3

## Method: 6010B - Metals (ICP)

Lab Sample ID: MB 320-95203/1-A ^10  
 Matrix: Solid  
 Analysis Batch: 95603

Client Sample ID: Method Blank  
 Prep Type: STLC Citrate

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.10		mg/L			12/14/15 15:04	10

Lab Sample ID: LCS 320-95203/2-A ^10  
 Matrix: Solid  
 Analysis Batch: 95603

Client Sample ID: Lab Control Sample  
 Prep Type: STLC Citrate

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	5.00	4.71		mg/L		94	75 - 125

# QC Association Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-3

## Metals

### Leach Batch: 95203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-6	S-2-A-2,	STLC Citrate	Solid	CA WET Citrate	
720-68752-7	S-2-B-1,	STLC Citrate	Solid	CA WET Citrate	
720-68752-8	S-2-C-2,	STLC Citrate	Solid	CA WET Citrate	
720-68752-9	S-2-D-1.5	STLC Citrate	Solid	CA WET Citrate	
LCS 320-95203/2-A ^10	Lab Control Sample	STLC Citrate	Solid	CA WET Citrate	
MB 320-95203/1-A ^10	Method Blank	STLC Citrate	Solid	CA WET Citrate	

### Analysis Batch: 95603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-6	S-2-A-2,	STLC Citrate	Solid	6010B	95203
720-68752-7	S-2-B-1,	STLC Citrate	Solid	6010B	95203
720-68752-8	S-2-C-2,	STLC Citrate	Solid	6010B	95203
720-68752-9	S-2-D-1.5	STLC Citrate	Solid	6010B	95203
LCS 320-95203/2-A ^10	Lab Control Sample	STLC Citrate	Solid	6010B	95203
MB 320-95203/1-A ^10	Method Blank	STLC Citrate	Solid	6010B	95203



# Lab Chronicle

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-3

**Client Sample ID: S-2-A-2,**  
**Date Collected: 11/19/15 08:43**  
**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-6**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			95203	12/12/15 12:45	NIM	TAL SAC
STLC Citrate	Analysis	6010B		10	95603	12/14/15 15:38	TTP	TAL SAC

**Client Sample ID: S-2-B-1,**  
**Date Collected: 11/19/15 08:06**  
**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-7**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			95203	12/12/15 12:45	NIM	TAL SAC
STLC Citrate	Analysis	6010B		10	95603	12/14/15 15:41	TTP	TAL SAC

**Client Sample ID: S-2-C-2,**  
**Date Collected: 11/19/15 09:00**  
**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-8**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			95203	12/12/15 12:45	NIM	TAL SAC
STLC Citrate	Analysis	6010B		10	95603	12/14/15 15:43	TTP	TAL SAC

**Client Sample ID: S-2-D-1.5**  
**Date Collected: 11/19/15 10:45**  
**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-9**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			95203	12/12/15 12:45	NIM	TAL SAC
STLC Citrate	Analysis	6010B		10	95603	12/14/15 15:46	TTP	TAL SAC

## Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

# Certification Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-3

## Laboratory: TestAmerica Pleasanton

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16 *

## Laboratory: TestAmerica Sacramento

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	01-31-16
Alaska (UST)	State Program	10	UST-055	12-18-16
Arizona	State Program	9	AZ0708	08-11-16
Arkansas DEQ	State Program	6	88-0691	06-17-16
California	State Program	9	2897	01-31-16
Colorado	State Program	8	N/A	08-31-16
Connecticut	State Program	1	PH-0691	06-30-17
Florida	NELAP	4	E87570	06-30-16
Hawaii	State Program	9	N/A	01-29-16
Illinois	NELAP	5	200060	03-17-16
Kansas	NELAP	7	E-10375	01-31-16
Louisiana	NELAP	6	30612	06-30-16
Michigan	State Program	5	9947	01-31-16
Nevada	State Program	9	CA44	07-31-16
New Jersey	NELAP	2	CA005	06-30-16
New York	NELAP	2	11666	04-01-16
Oregon	NELAP	10	CA200005	01-29-16
Pennsylvania	NELAP	3	9947	03-31-16
Texas	NELAP	6	T104704399-15-9	05-31-16
US Fish & Wildlife	Federal		LE148388-0	02-28-16
USDA	Federal		P330-11-00436	12-30-17
USEPA UCMR	Federal	1	CA00044	11-06-16
Utah	NELAP	8	QUAN1	02-28-16
Virginia	NELAP Secondary AB	3	460278	03-14-16
Washington	State Program	10	C581	05-04-16
West Virginia (DW)	State Program	3	9930C	12-31-15
Wyoming	State Program	8	8TMS-Q	01-29-16

\* Certification renewal pending - certification considered valid.

# Method Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-3

---

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL SAC

---

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



# Sample Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-68752-6	S-2-A-2,	Solid	11/19/15 08:43	11/19/15 16:51
720-68752-7	S-2-B-1,	Solid	11/19/15 08:06	11/19/15 16:51
720-68752-8	S-2-C-2,	Solid	11/19/15 09:00	11/19/15 16:51
720-68752-9	S-2-D-1.5	Solid	11/19/15 10:45	11/19/15 16:51

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Sharma, Dimple

720-68752-3

**From:** Kris Larson <klarson@ninyoandmoore.com>  
**Sent:** Tuesday, December 08, 2015 11:18 AM  
**To:** Sharma, Dimple  
**Cc:** Jason Grant  
**Subject:** Lab Sample ID 720-68752-10  
**Attachments:** J68752-2 UDS Level 2 Report Final Report.pdf; 720-68752-2\_Std\_Tal.csv

Dimple,

Please analyze the discrete samples that were composited into lab ID 720-68752-10 for the lead WET. They include discrete samples S-2-A-2, S-2-B-1, S-D-C-2, and S-2-D-1.5. Please analyze these on a normal TAT.

Thanks,

Kris M. Larson, P.G., QSD  
Principal Geologist  
**Ninyo & Moore**  
Geotechnical & Environmental Sciences Consultants  
1966 Webster Street, Suite 400  
Oakland, California 94612  
(510) 343-3000 (x15212)  
(510) 343-3001 (Fax)  
(510) 301 9446 (Cell)  
[klarson@ninyoandmoore.com](mailto:klarson@ninyoandmoore.com)

**New San Jose office**  
2149 O'Toole Avenue, Suite 10  
San Jose, CA 95131  
(408) 435-9000  
(408) 435-9006 (Fax)



720-68752 Chain of Custody

*Experience · Quality · Commitment*

**From:** Jason Grant  
**Sent:** Tuesday, December 08, 2015 9:12 AM  
**To:** Kris Larson  
**Subject:** Fwd: TestAmerica EDD and report files from 720-68752-2 Turner/UCSF Benioff

----- Original message -----

**From:** "Sharma, Dimple" <[dimple.sharma@testamericainc.com](mailto:dimple.sharma@testamericainc.com)>  
**Date:** 12/08/2015 9:06 AM (GMT-08:00)  
**To:** Forrest McFarland <[fmcfarland@ninyoandmoore.com](mailto:fmcfarland@ninyoandmoore.com)>, Jason Grant <[jgrant@ninyoandmoore.com](mailto:jgrant@ninyoandmoore.com)>  
**Subject:** TestAmerica EDD and report files from 720-68752-2 Turner/UCSF Benioff

Hello,

Attached please find the EDD and report files for job 720-68752-2; Turner/UCSF Benioff

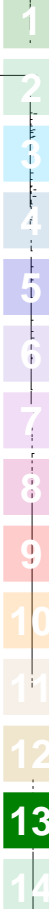
Please feel free to contact me if you have any questions.

**TestAmerica Pleasanton**  
 1220 Quarry Lane  
 Pleasanton, CA 94566  
 Phone (925) 484-1919 Fax (925) 600-3002

**Chain of Custody Record**

**TestAmerica**  
 THE LEADER IN ENVIRONMENTAL TESTING

<b>Client Information (Sub Contract Lab)</b>		Lab Pmt Sharma, Dimple	Carrier Tracking No(s)	COC No 720-26891.1					
Client Contact: Shipping/Receiving		E-Mail dimple.sharma@testamericainc.com		Page: Page 1 of 1					
Company: TestAmerica Laboratories, Inc.				Job # 720-68752-3					
Address: 880 Riverside Parkway, City West Sacramento State, Zip CA, 95605		Due Date Requested: 12/14/2015	<b>Analysis Requested</b>						
Phone 916-373-5600(Tel) 916-372-1059(Fax)		TAT Requested (days):							
Email		PO #	<b>Preservation Codes:</b> A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Arsenic H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)						
Project # 72011476		WO #							
Site: Turner/UCSF Benliff		Project #							
		SSOW #							
<b>Sample Identification - Client ID (Lab ID)</b>		<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=comp, G=grab)</b>	<b>Matrix (Wet/dry, Solid, Semisolid, Organics)</b>	<b>Field Filtered Sample (Yes or No)</b>	<b>6010B/CA_WET_CIT_180_STLC_Lead</b>	<b>Total Number of Containers</b>	<b>Special Instructions/Note:</b>
S-2-A-2, (720-68752-6)	11/19/15	08:43 Pacific	Solid	X		X		1	
S-2-B-1, (720-68752-7)	11/19/15	08:06 Pacific	Solid	X		X		1	
S-2-C-2, (720-68752-8)	11/19/15	09:00 Pacific	Solid	X		X		1	
S-2-D-1.5 (720-68752-9)	11/19/15	10:45 Pacific	Solid	X		X		1	
<b>Possible Hazard Identification</b>		<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
<b>Unconfirmed</b>		Special Instructions/QC Requirements:							
Deliverable Requested: I, II, III, IV, Other (specify)									
Empty Kit Relinquished by:		Date:		Method of Shipment					
Relinquished by: <i>John Mullen</i>	Date/Time: 12-8-15 1600	Company: <i>Alphas</i>	Company:	Received by: <i>[Signature]</i>	Date/Time: 12/9/15	1000	Company:		
Relinquished by:	Date/Time:	Company:	Company:	Received by:	Date/Time:		Company:		
Relinquished by:	Date/Time:	Company:	Company:	Received by:	Date/Time:		Company:		
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.3							



# Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-68752-3

**Login Number: 68752**

**List Number: 1**

**Creator: Bullock, Tracy**

**List Source: TestAmerica Pleasanton**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-68752-3

**Login Number: 68752**  
**List Number: 2**  
**Creator: Merritt, Nataliya**

**List Source: TestAmerica Sacramento**  
**List Creation: 12/09/15 02:04 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pleasanton

1220 Quarry Lane

Pleasanton, CA 94566

Tel: (925)484-1919

TestAmerica Job ID: 720-68752-4

Client Project/Site: Turner/UCSF Benioff

For:

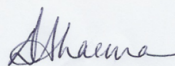
Ninyo & Moore

1956 Webster Street

Suite 400

Oakland, California 94612

Attn: Jason Grant



Authorized for release by:

12/17/2015 8:51:56 PM

Dimple Sharma, Senior Project Manager

(925)484-1919

[dimple.sharma@testamericainc.com](mailto:dimple.sharma@testamericainc.com)

### LINKS

Review your project  
results through

Total Access

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Definitions/Glossary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-4

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Case Narrative

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-4

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**Job ID: 720-68752-4**

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**Laboratory: TestAmerica Pleasanton**

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**Narrative**

**Job Narrative**  
**720-68752-4**

**Comments**

No additional comments.

**Receipt**

The samples were received on 11/19/2015 4:51 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4° C.

**Metals**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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# Detection Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-4

**Client Sample ID: S-2-A-2,**

**Lab Sample ID: 720-68752-6**

No Detections.

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This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-4

**Client Sample ID: S-2-A-2,**  
**Date Collected: 11/19/15 08:43**  
**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-6**  
**Matrix: Solid**

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50		mg/L		12/17/15 07:15	12/17/15 13:34	1

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# QC Sample Results

Client: Ninyo & Moore  
 Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-4

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 320-95865/1-A**  
**Matrix: Solid**  
**Analysis Batch: 95960**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 95865**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.10		mg/L		12/17/15 07:15	12/17/15 13:20	1

**Lab Sample ID: LCS 320-95865/2-A**  
**Matrix: Solid**  
**Analysis Batch: 95960**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 95865**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.500	0.488		mg/L		98	86 - 111

**Lab Sample ID: LB 320-95731/1-B**  
**Matrix: Solid**  
**Analysis Batch: 95960**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 95865**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50		mg/L		12/17/15 07:15	12/17/15 13:23	1

**Lab Sample ID: 720-68752-6 MS**  
**Matrix: Solid**  
**Analysis Batch: 95960**

**Client Sample ID: S-2-A-2,**  
**Prep Type: TCLP**  
**Prep Batch: 95865**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	ND		2.50	2.52		mg/L		88	86 - 111

**Lab Sample ID: 720-68752-6 MSD**  
**Matrix: Solid**  
**Analysis Batch: 95960**

**Client Sample ID: S-2-A-2,**  
**Prep Type: TCLP**  
**Prep Batch: 95865**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	ND		2.50	2.54		mg/L		89	86 - 111	1	20

# QC Association Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-4

## Metals

### Leach Batch: 95731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-6	S-2-A-2,	TCLP	Solid	1311	
720-68752-6 MS	S-2-A-2,	TCLP	Solid	1311	
720-68752-6 MSD	S-2-A-2,	TCLP	Solid	1311	
LB 320-95731/1-B	Method Blank	TCLP	Solid	1311	

### Prep Batch: 95865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-6	S-2-A-2,	TCLP	Solid	3010A	95731
720-68752-6 MS	S-2-A-2,	TCLP	Solid	3010A	95731
720-68752-6 MSD	S-2-A-2,	TCLP	Solid	3010A	95731
LB 320-95731/1-B	Method Blank	TCLP	Solid	3010A	95731
LCS 320-95865/2-A	Lab Control Sample	Total/NA	Solid	3010A	
MB 320-95865/1-A	Method Blank	Total/NA	Solid	3010A	

### Analysis Batch: 95960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-6	S-2-A-2,	TCLP	Solid	6010B	95865
720-68752-6 MS	S-2-A-2,	TCLP	Solid	6010B	95865
720-68752-6 MSD	S-2-A-2,	TCLP	Solid	6010B	95865
LB 320-95731/1-B	Method Blank	TCLP	Solid	6010B	95865
LCS 320-95865/2-A	Lab Control Sample	Total/NA	Solid	6010B	95865
MB 320-95865/1-A	Method Blank	Total/NA	Solid	6010B	95865

# Lab Chronicle

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-4

**Client Sample ID: S-2-A-2,**  
**Date Collected: 11/19/15 08:43**  
**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-6**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			95731	12/16/15 12:00	NIM	TAL SAC
TCLP	Prep	3010A			95865	12/17/15 07:15	NIM	TAL SAC
TCLP	Analysis	6010B		1	95960	12/17/15 13:34	CV1	TAL SAC

#### Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

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# Certification Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-4

## Laboratory: TestAmerica Pleasanton

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16 *

## Laboratory: TestAmerica Sacramento

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	01-31-16
Alaska (UST)	State Program	10	UST-055	12-18-16
Arizona	State Program	9	AZ0708	08-11-16
Arkansas DEQ	State Program	6	88-0691	06-17-16
California	State Program	9	2897	01-31-16
Colorado	State Program	8	N/A	08-31-16
Connecticut	State Program	1	PH-0691	06-30-17
Florida	NELAP	4	E87570	06-30-16
Hawaii	State Program	9	N/A	01-29-16
Illinois	NELAP	5	200060	03-17-16
Kansas	NELAP	7	E-10375	01-31-16
Louisiana	NELAP	6	30612	06-30-16
Michigan	State Program	5	9947	01-31-16
Nevada	State Program	9	CA44	07-31-16
New Jersey	NELAP	2	CA005	06-30-16
New York	NELAP	2	11666	04-01-16
Oregon	NELAP	10	CA200005	01-29-16
Pennsylvania	NELAP	3	9947	03-31-16
Texas	NELAP	6	T104704399-15-9	05-31-16
US Fish & Wildlife	Federal		LE148388-0	02-28-16
USDA	Federal		P330-11-00436	12-30-17
USEPA UCMR	Federal	1	CA00044	11-06-16
Utah	NELAP	8	QUAN1	02-28-16
Virginia	NELAP Secondary AB	3	460278	03-14-16
Washington	State Program	10	C581	05-04-16
West Virginia (DW)	State Program	3	9930C	12-31-15
Wyoming	State Program	8	8TMS-Q	01-29-16

\* Certification renewal pending - certification considered valid.

# Method Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-4

---

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL SAC

---

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

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# Sample Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-4

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-68752-6	S-2-A-2,	Solid	11/19/15 08:43	11/19/15 16:51

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## Sharma, Dimple

---

**From:** Kris Larson <klarson@ninyoandmoore.com>  
**Sent:** Wednesday, December 16, 2015 7:38 AM  
**To:** Sharma, Dimple  
**Cc:** Forrest McFarland; Jason Grant  
**Subject:** RE: TestAmerica EDD and report files from 720-68752-3 Turner/UCSF Benioff

Dimple,  
Please analyzed Lab ID 720-68752-6 for lead using the TCLP. We need the fastest TAT possible.  
Thanks,

Kris M. Larson, P.G., QSD  
Principal Geologist  
**Ninyo & Moore**  
Geotechnical & Environmental Sciences Consultants  
1956 Webster Street, Suite 400  
Oakland, California 94612  
(510) 343-3000 (x15212)  
(510) 343-3001 (Fax)  
(510) 301-9446 (Cell)  
[klarson@ninyoandmoore.com](mailto:klarson@ninyoandmoore.com)

**New San Jose office**  
**2149 O'Toole Avenue, Suite 10**  
**San Jose, CA 95131**  
**(408) 435-9000**  
**(408) 435-9006 (Fax)**

**Experience · Quality · Commitment**

**From:** Sharma, Dimple [mailto:dimple.sharma@testamericainc.com]  
**Sent:** Tuesday, December 15, 2015 5:01 PM  
**To:** Forrest McFarland; Jason Grant; Kris Larson  
**Subject:** TestAmerica EDD and report files from 720-68752-3 Turner/UCSF Benioff

Hello,

Attached please find the EDD and report files for job 720-68752-3; Turner/UCSF Benioff

Please feel free to contact me if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: [Project Feedback](#)

**DIMPLE SHARMA**  
Senior Project Manager



**TestAmerica Pleasanton**  
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 925.484.1919  
[www.testamericainc.com](http://www.testamericainc.com)

Reference: [203348]  
Attachments: 2

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# Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-68752-4

**Login Number: 68752**

**List Number: 1**

**Creator: Bullock, Tracy**

**List Source: TestAmerica Pleasanton**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-68752-4

**Login Number: 68752**  
**List Number: 2**  
**Creator: Merritt, Nataliya**

**List Source: TestAmerica Sacramento**  
**List Creation: 12/09/15 02:04 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

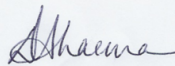
## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Pleasanton  
1220 Quarry Lane  
Pleasanton, CA 94566  
Tel: (925)484-1919

TestAmerica Job ID: 720-68752-5  
Client Project/Site: Turner/UCSF Benioff

For:  
Ninyo & Moore  
1956 Webster Street  
Suite 400  
Oakland, California 94612

Attn: Jason Grant



Authorized for release by:  
1/12/2016 4:15:22 PM

Dimple Sharma, Senior Project Manager  
(925)484-1919  
[dimple.sharma@testamericainc.com](mailto:dimple.sharma@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Definitions/Glossary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-5

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Case Narrative

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-5

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**Job ID: 720-68752-5**

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**Laboratory: TestAmerica Pleasanton**

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**Narrative**

**Job Narrative**  
**720-68752-5**

**Comments**

No additional comments.

**Receipt**

The samples were received on 11/19/2015 4:51 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4° C.

**Metals**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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# Detection Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-5

## Client Sample ID: S-2-A-2,

## Lab Sample ID: 720-68752-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.4		1.9		mg/Kg	1		6010B	Total/NA

## Client Sample ID: S-2-B-1,

## Lab Sample ID: 720-68752-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.9		2.0		mg/Kg	1		6010B	Total/NA

## Client Sample ID: S-2-C-2,

## Lab Sample ID: 720-68752-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.0		2.0		mg/Kg	1		6010B	Total/NA

## Client Sample ID: S-2-D-1.5

## Lab Sample ID: 720-68752-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.9		1.9		mg/Kg	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton



# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-5

**Client Sample ID: S-2-A-2,**  
**Date Collected: 11/19/15 08:43**  
**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-6**  
**Matrix: Solid**

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.4		1.9		mg/Kg		01/12/16 07:00	01/12/16 13:38	1

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# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-5

**Client Sample ID: S-2-B-1,**  
**Date Collected: 11/19/15 08:06**  
**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-7**  
**Matrix: Solid**

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.9		2.0		mg/Kg		01/12/16 07:00	01/12/16 13:40	1

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# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-5

**Client Sample ID: S-2-C-2,**  
**Date Collected: 11/19/15 09:00**  
**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-8**  
**Matrix: Solid**

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.0		2.0		mg/Kg		01/12/16 07:00	01/12/16 13:43	1

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# Client Sample Results

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-5

**Client Sample ID: S-2-D-1.5**

**Date Collected: 11/19/15 10:45**

**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-9**

**Matrix: Solid**

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.9		1.9		mg/Kg		01/12/16 07:00	01/12/16 13:51	1

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# QC Sample Results

Client: Ninyo & Moore  
 Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-5

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 320-97853/1-A**  
**Matrix: Solid**  
**Analysis Batch: 97916**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 97853**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0		mg/Kg		01/12/16 07:00	01/12/16 12:58	1

**Lab Sample ID: LCS 320-97853/2-A**  
**Matrix: Solid**  
**Analysis Batch: 97916**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 97853**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	200	212		mg/Kg		106	80 - 120



# QC Association Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-5

## Metals

### Prep Batch: 97853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-6	S-2-A-2,	Total/NA	Solid	3050B	
720-68752-7	S-2-B-1,	Total/NA	Solid	3050B	
720-68752-8	S-2-C-2,	Total/NA	Solid	3050B	
720-68752-9	S-2-D-1.5	Total/NA	Solid	3050B	
LCS 320-97853/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 320-97853/1-A	Method Blank	Total/NA	Solid	3050B	

### Analysis Batch: 97916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68752-6	S-2-A-2,	Total/NA	Solid	6010B	97853
720-68752-7	S-2-B-1,	Total/NA	Solid	6010B	97853
720-68752-8	S-2-C-2,	Total/NA	Solid	6010B	97853
720-68752-9	S-2-D-1.5	Total/NA	Solid	6010B	97853
LCS 320-97853/2-A	Lab Control Sample	Total/NA	Solid	6010B	97853
MB 320-97853/1-A	Method Blank	Total/NA	Solid	6010B	97853

# Lab Chronicle

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-5

**Client Sample ID: S-2-A-2,**  
**Date Collected: 11/19/15 08:43**  
**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-6**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			97853	01/12/16 07:00	NIM	TAL SAC
Total/NA	Analysis	6010B		1	97916	01/12/16 13:38	CV1	TAL SAC

**Client Sample ID: S-2-B-1,**  
**Date Collected: 11/19/15 08:06**  
**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-7**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			97853	01/12/16 07:00	NIM	TAL SAC
Total/NA	Analysis	6010B		1	97916	01/12/16 13:40	CV1	TAL SAC

**Client Sample ID: S-2-C-2,**  
**Date Collected: 11/19/15 09:00**  
**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-8**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			97853	01/12/16 07:00	NIM	TAL SAC
Total/NA	Analysis	6010B		1	97916	01/12/16 13:43	CV1	TAL SAC

**Client Sample ID: S-2-D-1.5**  
**Date Collected: 11/19/15 10:45**  
**Date Received: 11/19/15 16:51**

**Lab Sample ID: 720-68752-9**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			97853	01/12/16 07:00	NIM	TAL SAC
Total/NA	Analysis	6010B		1	97916	01/12/16 13:51	CV1	TAL SAC

## Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

# Certification Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-5

## Laboratory: TestAmerica Pleasanton

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16 *

## Laboratory: TestAmerica Sacramento

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	01-31-16
Alaska (UST)	State Program	10	UST-055	12-18-16
Arizona	State Program	9	AZ0708	08-11-16
Arkansas DEQ	State Program	6	88-0691	06-17-16
California	State Program	9	2897	01-31-16
Colorado	State Program	8	N/A	08-31-16
Connecticut	State Program	1	PH-0691	06-30-17
Florida	NELAP	4	E87570	06-30-16
Hawaii	State Program	9	N/A	01-31-17
Illinois	NELAP	5	200060	03-17-16
Kansas	NELAP	7	E-10375	01-31-16
Louisiana	NELAP	6	30612	06-30-16
Michigan	State Program	5	9947	01-31-16
Nevada	State Program	9	CA44	07-31-16
New Jersey	NELAP	2	CA005	06-30-16
New York	NELAP	2	11666	04-01-16
Oregon	NELAP	10	CA200005	01-29-16
Pennsylvania	NELAP	3	9947	03-31-16
Texas	NELAP	6	T104704399-15-9	05-31-16
US Fish & Wildlife	Federal		LE148388-0	02-28-16
USDA	Federal		P330-11-00436	12-30-17
USEPA UCMR	Federal	1	CA00044	11-06-16
Utah	NELAP	8	QUAN1	02-28-16
Virginia	NELAP Secondary AB	3	460278	03-14-16
Washington	State Program	10	C581	05-04-16
West Virginia (DW)	State Program	3	9930C	12-31-15 *
Wyoming	State Program	8	8TMS-Q	01-29-16

\* Certification renewal pending - certification considered valid.



# Method Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-5

---

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL SAC

---

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



# Sample Summary

Client: Ninyo & Moore  
Project/Site: Turner/UCSF Benioff

TestAmerica Job ID: 720-68752-5

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-68752-6	S-2-A-2,	Solid	11/19/15 08:43	11/19/15 16:51
720-68752-7	S-2-B-1,	Solid	11/19/15 08:06	11/19/15 16:51
720-68752-8	S-2-C-2,	Solid	11/19/15 09:00	11/19/15 16:51
720-68752-9	S-2-D-1.5	Solid	11/19/15 10:45	11/19/15 16:51

- 1
- 2
- 3
- 4
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- 10
- 11
- 12
- 13
- 14

Sharma, Dimple

720-68752-5

**From:** Kris Larson <klarson@ninyoandmoore.com>  
**Sent:** Friday, January 08, 2016 1:26 PM  
**To:** Sharma, Dimple  
**Cc:** Jason Grant  
**Subject:** Separating samples for arsenic analysis for Lab ID No. 720-68752  
**Attachments:** image001.png; image002.png; image003.png

Dimple,  
Please breakout the four composite samples from Lab ID 720-68752-10 and run each individual sample for arsenic on a rush TAT.  
Thanks,

**Kris M. Larson, P.G., QSD**  
Principal Geologist  
**Ninyo & Moore**  
Geotechnical & Environmental Sciences Consultants  
1956 Webster Street, Suite 400 | Oakland, California 94612  
(510) 343-3000 (x15212) | (510) 301-9446 (Cell) | (510) 343-3001 (Fax)  
[www.ninyoandmoore.com](http://www.ninyoandmoore.com)

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## Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-68752-5

**Login Number: 68752**

**List Number: 1**

**Creator: Bullock, Tracy**

**List Source: TestAmerica Pleasanton**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-68752-5

**Login Number: 68752**  
**List Number: 2**  
**Creator: Merritt, Nataliya**

**List Source: TestAmerica Sacramento**  
**List Creation: 12/09/15 02:04 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

